

CURRICULUM VITAE

NAME	Adrian Raine
WORK ADDRESS	Department of Criminology, McNeil Building, University of Pennsylvania, 3718 Locust Walk, Philadelphia, PA 19104-6286
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PRESENT POSITIONS	2007 - present: Professor of Criminology, Psychiatry, & Psychology, University of Pennsylvania. 1988 - present: Director , Mauritius Child Health Project. 2014 – present. Life Member , Clare Hall, University of Cambridge.
PREVIOUS POSITIONS	1972 - 1974 Trainee Accountant , British Airways, Heathrow Airport, London. 1977 - 1980 Postgraduate Research Student (Social Sciences Research Studentship, University of York). 1981 - 1984 Senior Psychologist (Psychologist 1981-2, Hull Prison; Senior Psychologist 1982-4, Frankland Prison), Prison Department, Home Office, England. 1980 - 1984 Course Tutor in Social Psychology, Open University, England. 1984 - 1987 University Lecturer in Behavioral Sciences (tenured 1987) Dept. of Psychiatry, University

of Nottingham, England.

1987 - 1990 **Assistant Professor** (tenure-track), Dept. of Psychology, University of Southern California.

1990 - 1994 **Associate Professor** (tenured), Dept. of Psychology, University of Southern California.

1990 - 1993 **Associate Chair**, Dept. of Psychology, University of Southern California.

1994 - 2007 **Professor** (tenured), Department of Psychology, University of Southern California.

1999 - 2007 **Robert Grandford Wright Professor** in Psychology and Neuroscience Programs, University of Southern California.

2005 - 2006 **Visiting Professor**, Department of Psychology, University of Hong Kong

2008 - 2011 **Chair**, Department of Criminology, University of Pennsylvania.

2013 - 2014 **Visiting Professor**, Institute of Criminology, University of Cambridge.

2015 – 2016 **Visiting Professor**, Department of Psychology, Nanyang Technological University.

2016 - 2019 **Honorary Visiting Professor**, University of York, England.

2022 – 2025: **International Leader**, Royal Society of New Zealand.

EDUCATION

1977: **BA** (Hons.) Experimental Psychology, Jesus College, Oxford University.

1982: **MA** Experimental Psychology, Jesus College, Oxford University.

1982: **D.Phil.** Psychology, University of York, England.
Thesis: "Socialization, psychometrics, and

psychophysiology".

Supervisor: Professor Peter H. Venables.

AWARDS/HONORS

- 1980: Young Psychologist of the Year (British Psychological Society).
- 1982: K.M. Stott Prize ("Distinguished Performance in Postgraduate Research"). University of York.
- 1989: Young Scientist Award, Biennial Winter Workshop on Schizophrenia.
- 1992: Research Mentorship Award ("outstanding faculty-student research team"; Phi Kappa Phi, U.S.C.
- 1993: Distinguished Research in Psychology (Dept. of Psychology, U.S.C.)
- 1993: Research Scientist Development Award, NIMH.
- 1997: Distinguished Research in Psychology (Dept. of Psychology, U.S.C.)
- 1998: Joseph Zubin Memorial Award (awarded by the New York State Psychiatric Institute and Western Psychiatric Institute and Clinic for distinguished and creative early contributions to psychopathology research).
- 1999: Independent Scientist Award, NIMH.
- 1999: Robert Grandford Wright Professorship, University of Southern California.
- 2003: Associates Award for Creativity in Research, University of Southern California
- 2006: Fellow: Academy of Experimental Criminology
- 2007: Richard Perry University Professorship, University of Pennsylvania.
- 2008: Hewlett Award for Innovation in International Teaching
- 2009: Fellow, American Psychological Society.

- 2011: Vice-President, Academy of Experimental Criminology.
- 2013: past-Chair, Division of Developmental and Life-Course Criminology, American Society of Criminology.
- 2013: President, Academy of Experimental Criminology.
- 2014: The Athenaeum Literary Award (book award for *The Anatomy of Violence*).
- 2015: D.Univ. (Honorary Degree), University of York, U.K.
- 2015: Outstanding Book Award, Biosocial Criminology Association (for "The Anatomy of Violence").
- 2016: Margaret van Horn Award for Distinguished Service in Psychiatry, Rutgers University.
- 2017: Lifetime Achievement Award, Society for the Scientific Study of Psychopathy. ("in recognition of pioneering contributions to the scientific understanding of psychopathy").
- 2017: Founding Chair, Division of Biopsychosocial Criminology, American Society of Criminology.
- 2018: Charles Ludwig Distinguished Teaching Award (for "Extraordinary commitment to the engagement of students as active and interactive participants in the learning process", School of Arts and Sciences, University of Pennsylvania.
- 2020: International Fellowship, Royal Society of New Zealand.
- 2020: Joan McCord Award, American Society of Criminology's Division of Experimental Criminology and Academy of Experimental Criminology (for "distinguished experimental contributions to criminology and criminal justice").
- 2023: Lifetime Achievement Award, Division of Developmental and Life-Course Criminology,

American Society of Criminology.

2025: Fellow, American Society of Criminology.

COURSES TAUGHT Criminal Behavior
Biopsychosocial Criminology
Abnormal Psychology
Violence: A Clinical Neuroscience Approach
Psychological Assessment: Clinical
Social Psychology
Behavioral Sciences (Biological, Developmental, Social, and
Health Psychology)

RESEARCH
INTERESTS Neurocriminology; biosocial risk factors for antisocial, violent,
and psychopathic behavior; nutritional and cognitive
treatment programs for aggressive behavior; reactive and
proactive aggression; behavioral and molecular genetics;
developmental psychopathology; neuroethics; neurolaw;
brain imaging; psychophysiology; selfishness; schizotypal
personality.

FUNDED RESEARCH (Total costs \$37,878,371)
GRANTS

1986-1988: Structural and functional characteristics of the corpus callosum in
schizophrenics. Medical Research Council (G8607450N). Principal Investigator.
\$35,536.

1987-1988: Frontal lobe area and callosal thickness in schizophrenics. Biomedical
Research. Principal Investigator \$5,000.

1988-1989: Delinquency in Mauritian children. Faculty Research and Innovation Fund,
U.S.C. Principal Investigator. \$10,000.

1989-1990: Frontal lobe dysfunction in schizotypal personality disorder. Biomedical
Research. Principal Investigator. \$5,000.

1991-1994: Psychophysiology of violent and antisocial behavior (R01 MH46435-02).
NIMH. Principal Investigator. \$553,562.

1991-1992: Brain functioning in homicide cases with and without head injury. Southern
California Injury Prevention Research Center. Principal Investigator. \$9,478.

1991-1992: Psychophysiology of violent behavior and long- term community

- rehabilitation of schizophrenia: Small instrumentation program application. National Institute of Alcohol and Alcohol Abuse. Principal Investigator. \$8,390.
- 1992-1993: Event-related potentials and schizotypal personality. UCLA Clinical Research Center for Schizophrenia. Principal Investigator. \$3,128.
- 1992-1993: Schizotypal personality. NATO. Advanced Research Workshop. Director. \$24,000.
- 1993-1995: Autonomic predictors of alcohol abuse. (5 R01 AA08876-02) NIAAA. Principal Investigator. \$354,874
- 1993-1998: Violence: Integrating social and physiological factors (5 K02 MH01114-02.) NIMH. Principal Investigator. \$391,644
- 1994-1995: Pre-frontal deficits in schizotypal personality disorder (1 RO3 MH50940-01A2). NIMH. Principal Investigator. \$162,786.
- 1994-1998: Social and physiological factors for violence (1 RO1 MH51091-01A1) NIMH. Principal Investigator. \$1,597,991
- 1995-1996: Biosocial bases of violence. NATO. Director. \$79,863
- 1995-1997: Childhood predictors of alcoholism and violence. (1 RO1 AA10206) NIAAA Principal Investigator. \$746,837.
- 1999-2003: Childhood predictors of alcoholism and violence (competing continuation) (1 RO1 AA10206) NIAAA Principal Investigator. \$2,186,872.
- 1999-2004: Violence: Integrating social and physiological factors (2 K02 MH01114-06.) NIMH. Principal Investigator. \$545,861.
- 2000-2005: Risk factors for antisocial behavior. NIMH (5 RO1 MH58354) Co-Investigator (PI: Laura Baker). \$2,595,779.
- 2000-2001: Schizotypal personality. NATO. Advanced Research Workshop. Director. \$25,600.
- 2001-2002: Brain deficits in violent schizophrenics. U.S.C. Zumberge Interdisciplinary Research Grant. Principal Investigator. \$49,560.
- 2001-2002: Biosocial bases of violence. U.S.C. Undergraduate Research Initiative. Principal Investigator. \$10,000
- 2001-2006. Intergenerational transmission of antisocial behavior. NICHD & NIMH (1

- RO1 HD42259) Principal Investigator. \$3,116,512.
- 2004-2004 Crime and schizophrenia: Causes and cures. Borchard Foundation, CA. Conference. Director. \$25,000.
- 2004-2008: Acquisition of an fMRI basic research imaging system at the University of Southern California. Major Research Instrumentation Grant, NSF. Co-Investigator. (PI: Irving Biederman) \$1,772,149.
- 2006-2011: Risk factors for antisocial behavior. NIMH. Co-Investigator (PI: Laura Baker). \$4,022,604.
- 2008-2012: Biosocial Prediction and Intervention on childhood Aggression. Principal Investigator. Pennsylvania Department of Health. \$3,941,025
- 2008-2011: A nutritional and social skills intervention on conduct disorder and hyperactivity. National Medical Research Council, Singapore. Co-Investigator (PI: Daniel Fung). \$647,693 (SGD \$889,535)
- 2009-2011 Omega-3 supplementation to reduce antisocial and aggressive behavior in community children: A randomized, placebo-controlled, double-blind trial. Pharmalogica, Oslo, Norway. Principal Investigator. \$79,440.
- 2010-2015: "Lead exposure, externalizing behavior, and neurobiological mediating factors". (1R01ES018858). Co-Investigator (PI: Jianghong Liu). NIEHS. \$1,913,020.
- 2010-2015: "Intergenerational transmission of alcohol involvement". (1R01 AA18179). Co-Investigator (PI: Susan Luczak). NIAAA. \$3,204,756.
- 2010-2011: "Effectiveness of an omega-3 supplementation on antisocial and violent behavior in young offenders: a randomized, controlled trial. Singapore Prison Service, Principal Investigator. \$67,128.
- 2012-2017: "Mechanisms of Comorbidity and Specificity for Generalized Anxiety and Depression". (1 R01 MH094425-01). Co-Investigator (PI: Ayelet Ruscio). NIMH. \$2,075,113.
- 2014-2017: "Omega-3 supplementation to reduce externalizing behavior problems in risk-taking adolescents: A randomized, placebo-controlled, double-blind trial". Co-Investigator (PI: Dr. Annis Fung). Research Grants Council, Hong Kong. HK\$730,000 (US\$94,022).
- 2017-2021: "Understanding Deception neuroimaging" Co-Investigator (PI Dr. Research and Development Grant, Future Technology Directorate, Ministry of Defense,

Singapore. SG\$970,000 (US\$736,757).

2017-2024: "Omega-3 supplementation and adolescent behavior". NICHD. Principal Investigator. \$2,610,307 (R01HD087485)

2017-2018: "Lead Exposure, Sleep Disturbances, and Behavioral Problems". Co-Investigator with Dr. Liu). Center of Excellence in Environmental Toxicology at Perelman School of Medicine. \$50,000.

2018: Summer Undergraduate Research Group Grant (SURGG): Nutritional Interventions, Parenting and Behavior. Co-Investigator (PI: Dr. Jianghong Liu). \$30,000

2018-2019: "Environmental toxicity, sleep and mental health outcomes". Co-Investigator (PI: Dr. Liu). Office of Nursing Research, \$15,000.

2022-2027: "Risky Parenting and Temperament Pathways To Callous-Unemotional Traits In Early Childhood". Co-Investigator (PI: Dr. Rebecca Waller). NICHD. \$3,925,908 (1R01MH125904).

2023-2026: "The effect of abnormal structural and functional resting-state connectivity in prefrontal cortex and increased exposure to traffic-related air pollutants on schizotypy". Co-Investigator. (PI: Dr. Yin-hung Lam). Research Grants Council, Hong Kong. \$150,176 (HK\$1,178,724).

FUNDED TRAINING GRANTS (total direct costs: \$756,615)

1991-1992: NIMH. Faculty mentor for Angela Scarpa. NRSA (1 F31 MH10243-01). Psychophysiological characteristics of child behavior problems. \$13,008.

1993-1994: NIMH. Faculty mentor for Todd Lencz. NRSA (1 F31 MH10463-01). Psychophysiological and behavioral antecedents of schizotypy. \$13,008.

1994-1995: NIMH. Faculty mentor to Deana Benishay. NRSA. (1F31 MH10845-01). Longitudinal biosocial interactions in schizotypy. \$11,800.

1994-1997: NIAAA. Faculty mentor to Susan Bihle. NRSA (1F31 AA05394-01). Precursors of criminal behavior among alcoholics. \$56,190.

1996-1997. NIAAA. Faculty mentor to Shari Mills. NRSA. (1 F31 MH10799-01) Neuropsychology of violent behavior. \$56,190.

1997-2001. NIMH. Faculty mentor to Pauline Yaralian. (1 F31 MH11761-01). Psychophysiology, aggression, and hyperactivity. \$52,032.

- 1999-2003. NIMH. Faculty mentor to Lisa Gatzky (1 F31 MH12352-01). Psychophysiology in violence, risk and protective factors. \$128,959.
- 2001-2004. NIMH Faculty mentor to Sharon Ishikawa (1 F32 MH10823-01). Biological risk and protective factors for antisocial behavior. \$134,841.
- 2006-2010. NIMH. Faculty mentor to Robert Schug. (1 F31MH74167-01A2). "Frontal and autonomic impairments in psychopathy subtypes. \$160,113.
- 2007-2009: NIMH Faculty mentor to Yaling Yang. Structural Brain Imaging in Psychopathy. \$101,124
- 2009-2010: NIMH. Faculty mentor to Andrea Glenn (1 F31 MH086288). "Endocrine correlates of psychopathic traits in children: a multi-system approach". \$29,350.

TEACHING GRANTS

2008. Hewlett Award for Innovation in International Teaching. University of Pennsylvania. \$23,922.

INVITED PRESENTATIONS AND SYMPOSIA (first author only)

1. 1980: Locus of control and socialization. British Psychological Society, Aberdeen, Scotland.
2. 1983: Electrodermal nonresponding and antisocial behavior in adolescents. International Society for the Study of Individual Differences, London, England.
3. 1984: Electrodermal correlates of schizotypy and psychopathy in criminals. International Organization of Psychophysiology, London.
4. 1986: Evoked potentials and antisocial behavior NATO Advanced Study Institute on Antisocial Behavior, Italy.
5. 1987: Psychopathic behavior and P300 event-related potentials. Mapperly Hospital, Nottingham University, England.
6. 1987: Schizopathy: Conjoint psychopathic and schizoid traits in criminals and their relationship with smooth-pursuit eye movements, skin conductance orienting, and P3 evoked potentials. International Society for the Study of Individual Differences, Toronto, Canada.

7. 1989: Frontal dysfunction in schizophrenia: An MRI, neuropsychological, and psychophysiological examination. Psychophysiology Society, London, England.
8. 1989: Psychophysiological predictors of criminal behavior. Psychophysiology Society, London, England.
9. 1989: Structural and functional deficits to pre-frontal cortex in schizophrenia. Camarillo State Hospital, Camarillo, California.
10. 1990: Structural and functional characteristics of the corpus callosum in schizophrenics, psychiatric controls, and normal controls. Fifth Biennial Winter Workshop on Schizophrenia, Badgastein, Austria.
11. 1990: Electrodermal activity and psychopathy: A review. 5th International Congress of Psychophysiology, Budapest, Hungary.
12. 1990: Psychophysiology and crime: A prospective study. 5th International Congress of Psychophysiology, Budapest, Hungary.
13. 1990: Frontal deficits in schizophrenia. Neuropsychiatric Institute, UCLA, California.
14. 1990: Evidence for both structural and functional pre-frontal deficits in schizophrenia. Society for Research in Psychopathology, Boulder, Colorado, November 29-December 2.
15. 1991: The Schizotypal Personality Questionnaire (SPQ). 5th Biennial Meeting of the International Society for the Study of Individual Differences, Oxford, July 22-26.
16. 1991: Schizotypal personality: Factor structure, sex differences, psychiatric differences, handedness, genetics, psychophysiology, and neuropsychology. Society for Research in Psychopathology, Cambridge, December 5-8.
17. 1992: Neuroanatomical basis of electrodermal activity in humans NATO Advanced Research Workshop on Electrodermal Activity, Villeneuve d'Ascq, France, May 20-23, 1992.
18. 1992: Biological theories of violence and aggression. Fourth Symposium on Violence and Aggression, Saskatoon, Saskatchewan, Canada, June 21-24.
19. 1992: The biology of violent and antisocial behavior. Department of Criminal Justice, California State University, Fullerton, California, July 8.
20. 1992: Biological bases of violence. Department of Psychology, University of Buffalo, SUNY, October 16.

21. 1992: Brain imaging in violent offenders. Symposium on "Risk Factors for Violence", Society for Research in Psychopathology, Palm Springs, November 15.
22. 1992: Biological basis of antisocial behavior. Department of Psychology, Harvard University, November 30.
23. 1992: Pre-frontal deficits in schizotypal personality disorder. Study Group on "Defining the boundaries of schizophrenia", American College of Neuropsychopharmacology Annual Meeting, San Juan, Puerto Rico. December 14-18, 1992.
24. 1993: Brain imaging in violent offenders. Neurology Department, UCLA Neuropsychiatric Institute, January 4.
25. 1993: Frontal dysfunction in murders. Psychiatric Treatment Center, Alberta Hospital, Edmonton, Canada. January 21.
26. 1993: Schizotypal personality disorder: Neuropsychological and psychophysiological processes. Psychiatric Treatment Center, Alberta Hospital, Edmonton, Canada. January 22.
27. 1993: Psychophysiological basis of violence. Grand Rounds, Allegheny-Singer Research Institute, Pennsylvania Medical College, Pittsburgh, March 31.
28. 1993: Arousal and frontal dysfunction theories of crime. Department of Psychology, University of California, San Diego. April 1.
29. 1993: Schizotypal personality disorder. Department of Psychology, UCLA, April 30.
30. 1993: Schizotypal personality and skin conductance orienting. NATO Advanced Research Workshop on Schizotypal Personality. Castelvechio Pascoli, Italy, May 31 - June 4.
31. 1993: Methodological and conceptual issues in schizotypal personality research. NATO Advanced Research Workshop on Schizotypal Personality. Castelvechio Pascoli, Italy, May 31 - June 4.
32. 1993: Biological bases of antisocial behavior. Western Psychiatric Institute and Clinic, University of Pittsburgh, September 13.
33. 1993: Under-arousal as a general predisposition to crime. Symposium on "Underlying mechanisms in antisocial behavior". Annual Meeting of the American Society of Criminology, Phoenix, Arizona, October 27-30.
34. 1994: Biological predispositions for violence and their implications for violence

- prevention. American Academy for the Advancement of Science, Annual Meeting, San Francisco, February 18-23.
35. 1994: Biological interventions for violence. Grand Rounds, Department of Psychiatry, Stanford University School of Medicine, Palo Alto March 2.
 36. 1994: Birth complications and violence. Neuroscience Forum, Department of Veterans Affairs, Neurology Clinic, Los Angeles.
 37. 1994: The Schizotypal Personality Questionnaire. Symposium on personality measures, Society for Personality Assessment, Chicago, April 14-17.
 38. 1994: Brain imaging studies of violent criminals. Symposium on Social and Biological Predispositions to Violence, American Psychological Association Annual Meeting, Los Angeles, August 12-16.
 39. 1994: Schizotypal personality: conceptual and theoretical issues. Presidential Symposium in Honor of Jean Chapman, Society for Research in Psychopathology, Coral Gables, Miami, 29 September - October 2.
 40. 1994: Biological correlates of antisocial behavior. Department of Psychiatry, University of Chicago. October 10.
 41. 1994: Biological bases of antisocial and violent behavior workshop. Sixth Annual Conference on Bonding and Attachment, Cleveland, Ohio, October 20-23.
 42. 1994: Biosocial bases of violence. Colloquium, Department of Psychology, University of Pennsylvania. October 24.
 43. 1994: The neuropsychology of violence. Neuropsychiatric Institute, UCLA, Los Angeles, October 27.
 44. 1994: Higher autonomic activity at age 15 protects against crime development at age 29. Panel on "Predisposition to violence", Annual Meeting of the American Society for Criminology, Miami, Florida, November 12.
 45. 1994: Birth complications combined with early maternal rejection at age one year predispose to violent crime at age 18 years. Panel on "The interaction of social and biological factors in the development of antisocial behavior", Annual Meeting of the American Society for Criminology, Miami, Florida, November 13.
 46. 1994: Autonomic factors that protect against crime. Symposium on "Individual Differences", 22nd Annual Meeting of the British Psychophysiological Society, December 19-21, London.

47. 1995: Biology and crime: Science and politics. University of California San Diego: Conference on Dealing with Dangerousness, February 23-26, San Diego.
48. 1995: Biological bases of violence. Grand Rounds, New York State Psychiatric Institute, March 17, New York.
49. 1995: Brain imaging in murderers. Symposium on "Biosocial bases of antisocial and violent behavior", Western Psychological Association, March 30-April 2, Los Angeles.
50. 1995: Violence and biology. Grand Rounds, Department of Psychiatry, University of Chicago at Illinois, April 19.
51. 1995: Violence and biology: Causes and cures. Symposium on "Violence: pathogenesis and management". 148th Annual Meeting of the American Psychiatric Association, Miami, May 20-25.
52. 1995: Prefrontal structural and functional deficits in schizotypals. Symposium on "Brain structure and function in schizophrenia spectrum". 148th Annual Meeting of the American Psychiatric Association, Miami, May 20-25.
53. 1995: Autonomic nervous system factors underlying disinhibited, aggressive, and antisocial behavior in childhood and adolescence. New York Academy of Sciences' Meeting on Understanding Aggressive Behavior in Children, New York, September 30 - October 2.
54. 1995: Schizotypal personality: skin conductance, MRI, and prefrontal dysfunction. Symposium on schizotypy. Society for Psychophysiological Research, Toronto, Canada, October 11-15.
55. 1995: Autonomic risk and protective factors for crime development. Symposium on the Neurobiology of Aggression in Youth. 42nd. Annual Meeting of the American Academy of Child and Adolescent Psychiatry, New Orleans, October 18-22.
56. 1996: Biosocial bases of aggression. Guggenheim Conference on the Biology of Aggression. Toledo, Spain, January 5-9.
57. 1996: Biological bases of antisocial and violent behavior. Dept. of Psychology, University of Minnesota, April 19.
58. 1996: Schizotypal personality disorder. Dept. of Psychology, University of Minnesota, April 19.
59. 1996: Introduction: Theories of Biosocial Interaction. NATO Advanced Study Institute, Rodos Palace, Rhodes, Greece, May 12-21.

60. 1996: The interaction of social and psychophysiological factors. NATO Advanced Study Institute, Rodos Palace, Rhodes, Greece, May 12-21.
61. 1996: Biological bases of violence. Helmholtz Club, University of California, Irvine, June 11.
62. 1996: Arousal and antisocial behavior Brown-Sequard Hospital, Mauritius.
63. 1996: Biosocial bases of crime and violence. Invited address, American Psychological Association, Toronto, August 9-13.
64. 1996: Biosocial bases of violence. Invited address, Violence and Criminality: A Gathering of Experts. Bahia Resort Hotel, San Diego, August 21-23.
65. 1996: The biological bases of criminal behavior: Implications for Prevention and Treatment. Invited address, Annual Conference of Criminological and Legal Psychology, College of Ripon and York, York, England, September 2-4
66. 1996: Low resting heart rate at age 3 years predisposes to aggression at age 11 years: Findings from the Mauritius Joint Child Health Project. Society for Research in Psychopathology, Atlanta, September 26-29.
67. 1996: Biological Bases of Antisocial and Violent Behavior. Invited address, Sixth International Conference for the Association of to Treat Attachment Disordered Children, Denver, October 17-19.
68. 1996: High autonomic arousal and information-processing at age 15 years as protective factors against crime at age 29 years, Society for Psychophysiological Research, Vancouver, October 17-20.
69. 1996: Biosocial bases of violence. Conference on Ethological and Developmental Approaches to Male Violence. Wayne State University, Detroit, November 15.
70. 1996: Prospective longitudinal studies on antisocial behavior Department of Psychology, Northwestern University, November 19.
71. 1996: Birth complications, maternal rejection, and violence. Symposium on ABiological advances in understanding antisocial and criminal behavior@. American Society for Criminology, Chicago, November 20-23.
72. 1996: Biosocial bases of violence. Symposium on AFuture developments in criminological theory@. American Society for Criminology, Chicago, November 20-23.

73. 1997: Brain imaging and violence. Special Topic Speaker, International Neuropsychology Society, Orlando, Florida, February 5-8.
74. 1997: The biology of dangerous offenders: Identifying risk factors. West Coast Child and Adolescent Mental Health Conference, San Diego, February 13-16.
75. 1997: Aggression and Violence: Biosocial perspectives Symposium on Biosocial Bases of Aggression, Society for Personality Assessment, San Diego, March 12-16.
76. 1997: Recidivistic crime as a clinical disorder. Symposium on Criminality and Psychopathology, American Psychiatric Association, San Diego, May 17-22 .
77. 1997: Lateral asymmetries in brain structure in violent offenders Conference on Cerebral Laterality and Psychopathology, London, 18-21 June.
78. 1997: Violence: reward and emotion. British Neuropsychiatric Association and American Neuropsychiatric Association, Cambridge, England, July 20-22.
79. 1997: Prefrontal deficits in violent offenders in the community Institute of Psychiatry, Maudsley Hospital, London, September 30.

80. 1997: Psychopathology and tonic heart rate Symposium on "What can psychophysiology contribute to our understanding of psychopathology?", Society for Research in Psychopathology, Palm Springs, 23-26 October.
81. 1997: Schizotypal personality: Conceptual and theoretical issues Research seminar, Department of Psychiatry, University of Iowa, 10 November.
82. 1997: Biosocial bases of violence Grand Rounds, Department of Psychiatry, University of Iowa.
83. 1997: Birth complications and violence Interactive Forum: Community, Society, and Culture. Association of Pre- and Perinatal Psychology and Health, San Francisco, December 4-7.
84. 1997: Structural and functional brain imaging correlates of violence Panel on Imaging Disorders of Impulse Control, American College of Neuropsychopharmacology, December 8-12.
85. 1998: Schizotypal personality disorder. Department of Psychology, UCLA. January 16.
86. 1998: Biosocial bases of violence. Fuller Seminar, Pasadena, CA, January 22.
87. 1998: Biological bases of adolescent antisocial behavior. Panel on Interdisciplinary Approach to Understanding Juvenile Delinquency. San Diego, February 26-March 1.
88. 1998: Birth complications, maternal rejection, and violence. Invited Speaker, Primal Health Research Conference, St. Andrews, Scotland April 23, 1998.
89. 1998: Biosocial bases of violence. Department of Psychology, University of Hong Kong, June 25
90. 1998: Prenatal health: implications for antisocial and violent behavior. Department of Psychiatry, Medical School, Nanjing University, July 20.
91. 1998: Recidivistic crime as a disorder. Panel on Law and Public Policy, Conference on Neuroscience and the Human Spirit, Washington, D.C., September 24-25.
92. 1998: Biology and violence - brain research. Invited address, Oregon Criminal Defense Lawyers Association Juvenile Law Seminar, Salishan, Oregon, October 23-24.

93. 1998: Biological risk factors for conduct disorder and antisocial behavior. Symposium on A Looking for the internal deficit : Genetics, biology, ecology, and crime. 45th Annual Meeting of the American Academy of Child, and Adolescent Psychiatry, Anaheim, CA, October 27 - November 1.
94. 1998: Neuropsychological factors in crime and violence. Invited address, National Academy of Neuropsychology, Washington DC, November 4-7.
95. 1998: Biosocial bases of violence. Grand Rounds, Department of Psychiatry, Columbia University, November 18.
96. 1998: Biosocial bases of child and adolescent antisocial behavior. Developmental Psychopathology Section, NIMH, Bethesda, November 20.
97. 1998: Biological bases of violence. Plenary Panel, International Society for Traumatic Stress Studies, Washington, D.C., November 20-23.
98. 1999: The development of aggressive behavior Invited address, UCSD: West Coast Child and Adolescent Mental Health Conference, San Diego, 18-21 February.
99. 1999: Mad or bad? Is criminality a mental disorder? Plenary session, UCSD: West Coast Child and Adolescent Mental Health Conference, San Diego, 18-21 February.
100. 1999: Biosocial bases of violence. Guest speaker, Clinical Psychology Psychfest, Department of Psychology, UCLA, April 20
101. 1999: Joseph Zubin Memorial Award Lecture: Biosocial bases of violence. Western Psychiatric Institute and Clinic, University of Pittsburgh, May 14, 1999.
102. 1999: Brain mechanisms and aggression. Departmental Colloquium, Department of Psychology, Loma Linda University, May 20.
103. 1999: Educational and nutritional enrichment at age 3-5 years reduces conduct disorder at age 17 years: Evidence from the Mauritius Child Health Project. Symposium on A Prevention trials targeting conduct disorder or depression@. Society for Prevention Research, New Orleans, 24-26 June.
104. 1999: Genetics, perinatal factors, and later outcome. Symposium on Violence in Juveniles: Neurobiological factors. European Association for Forensic Child and Adolescent Psychiatry, and Department of Psychiatry, Free University, Netherlands, September 14.
105. 1999: Autonomic factors. Symposium on Violence in Juveniles: Neurobiological

- factors. European Association for Forensic Child and Adolescent Psychiatry and Department of Psychiatry, Free University, Netherlands, September 14.
106. 1999: Brain imaging. Symposium on Violence in Juveniles: Neurobiological factors. European Association for Forensic Child and Adolescent Psychiatry and Department of Psychiatry, Free University, Netherlands, September 14.
 107. 1999: Biological contributions to child and adolescent antisocial behavior Symposium on Biological Aspects of Aggression, European Congress on Child and Adolescent Psychiatry, Hamburg, Germany, September 15-16.
 108. 1999: Crime and biology: recent advances. Keynote address, German Psychological Association, Nuremberg, Bavaria, September 17-18.
 109. 1999: Psychopathy, violence, and brain imaging Keynote speaker, Queen Sofia Center for the Study of Violence: International Workshop on Violence and Psychopathy, Valencia, Spain, November 15-16.
 110. 2000: Biosocial bases of violence Department of Occupational Therapy, University of Southern California, January 13-14.
 111. 2000: Neurobiological bases of violence. Neuroscience Lecture Series, Department of Neuropharmacology, Scripps Research Institute, La Jolla. January 18-20.
 112. 2000: Brain deficits in psychopaths Controversies in Neuropsychiatry - Psychopathy. American Neuropsychiatric Association, Fort Myers, Florida, February 20-22.
 113. 2000: The development of antisocial behavior: biosocial perspectives. Invited speaker, Alumni Weekend, Department of Psychiatry, Stanford University, April 28-29.
 114. 2000: Biosocial bases of violence. Invited speaker, NIH Behavioral and Social Sciences Seminar Series, NIH, Bethesda, MD, May 25.
 115. 2000: Brain function and aggression Invited address, Conference on Biology of Aggression, Midland, Ontario, Canada, June 14-16.
 116. 2000: Biosocial bases of violence. Grand Rounds, Department of Psychiatry, University of California, Davis, June 21.
 117. 2000: Female and male antisocial behavior: biosocial correlates. Invited speaker, Conference on Juvenile Antisocial Behavior, Switzerland, September 18-19.

118. 2000: Biological bases of violence. Department of Psychology, University of Melbourne, Australia, October 4
119. 2000: Violence and brain imaging Department of Psychology, University of Macquarie, Australia, October 5.
120. 2000: The biological basis of criminal careers. 13th Annual Occupational Science Symposium@ Biological basis of Occupation. University of Southern California, 26-27 October.
121. 2000: Early educational and health enrichment is associated with increased autonomic and central nervous system arousal / orienting. Symposium on Biobehavioral Integration of Aggression and Development, NIH Robert B. Cairns Memorial Conference, Chapel Hill, North Carolina, 14-15 October.
122. 2000: Biology and violence. Grand Rounds, Nathan Kline Institute, New York, November 13.
123. 2000: Neurobiology, behavior, and prevention National Institute of Drug Abuse Workshop, NIMH, Rockville MD, November 15.
124. 2000: Biosocial bases of violence Grand Rounds, Department of Psychiatry, Harbor / UCLA Medical Center, Los Angeles, December 12.
125. 2001: Violence and psychopathy. Queen Sofia Center for Violence, F.N.A.C., Madrid, Spain, February 28.
126. 2001: Early environmental enrichment and the prevention of schizotypy Key speaker, NATO Advanced Research Workshop on "Schizophrenia and Schizotypy: An Integration", Il Ciocco, Tuscany, Italy, March 24-27.
127. 2001: Brain deficits in violent offenders. Symposium on "Neurobiological Bases of Violence". Bureau of Prisons, Butner, North Carolina, May 30-31.
128. 2001: Biosocial bases of childhood aggression. Keynote speaker, 10th Scientific Meeting of the International Society for Research in Child and Adolescent Psychopathology, June 26-30.
129. 2001: Biological bases of violence. Invited lecture series on "Biological Basis of Violence", International University Menendez Pelayo, Valencia, Spain, October 1-5.
130. 2001: Biology and violence: Theory and practice. Invited one-day symposium, Les Maronniers Hospital, Tournai, Belgium, October 8.
131. 2001: Neuroimaging and violence. Symposium on "Neuroimaging of co-occurring

mental disorders: Implications for treatment". Eight Annual Conference on Behavior, Clinical Neuroscience, Substance Abuse, and Culture, Los Angeles, October 25-26th

132. 2001: Brain bases of violence. Invited panelist, 3rd Annual Dartmouth Student Science Congress, Dartmouth College, November 3.
133. 2001: Criminal behavior and malingering as psychopathology. Conference on Malingering and Mental Illness, Blenheim Palace, Woodstock, Oxford, November 7-9.
134. 2001: Biosocial bases of violence. Invited colloquium, Department of Psychology, University of California – Long Beach. December, 5.
135. 2001: Biosocial bases of violence. Grand Rounds, Department of Psychiatry, Cedars-Sinai Medical Center, Los Angeles, December 6.
136. 2001: Biological bases of antisocial and violence behavior: An update. Fuller Seminary, Pasadena. January 15.
137. 2002: Biosocial bases of violence. Kennedy Center Lectures on Human Development and Developmental Disabilities, Department of Psychology, Vanderbilt University, February 6-8.
138. 2002: The biological basis of antisocial behavior in children and adolescents. Keynote speaker, Western Psychological Association 82nd Annual Convention, Irvine, 11-14 April.
139. 2002: Antisocial behavior in children: Developmental perspectives. Keynote address, 8th Annual Psychology Day, Department of Psychology, California State University, Fullerton, April 18.
140. 2002: Biological processes in the development of antisocial behavior in children. Nevada Psychological Association, Reno, May 4.
141. 2002: Brain imaging and antisocial personality disorder. Invited presentation, 4th National Congress on Personality Disorders, Bilbao, Spain, June 20-23.
142. 2002: Brain deficits, sexual violence, and abuse. Invited address, International Association for the Treatment of Sexual Offenders, Vienna, Austria, September 11-14.
143. 2002: Biological basis of violence. Grand Rounds, Neuropsychiatric Institute, University of California, Los Angeles, September 24th.

144. 2002: The development of antisocial behavior in children. Department of Pediatrics, Santa Monica – UCLA Medical Center, University of California, Los Angeles, September 25.
145. 2002: Autonomic deficits and childhood conduct problems: Implications for etiology, psychopathy, desistence, and prevention. Symposium on “Differing Approaches to the Study of Conduct Problems and Antisocial Behavior in Childhood”. Society for Psychophysiological Research, Washington DC, 2-6 October.
146. 2002: Insights on violence from brain imaging research. Keynote speaker at the Annual Meeting of the Belgian College of Neuropsychopharmacology and Biological Psychiatry, Belgium, October 25.
147. 2002: The violent mind: Insights from brain imaging. Keynote speaker, Queen Sofia Center for the Study of Violence: International Workshop on Biology and Violence, Valencia, Spain, November 7-8.
148. 2003: Crime, Violence, and the Brain. Invited speaker, The California Club, Los Angeles,
149. 2003: Schizotypal and violence. Seminar series on schizophrenia and major affective disorders, UCLA Aftercare Research Program, March 14.
150. 2003: Early risk factors for antisocial and aggressive behavior. Division of Neurology, Childrens’ Hospital, Los Angeles, March 25.
151. 2003: The neurobiology of violence. Plenary session on Neurobiology of Violence and Treatment for Schizophrenia, International Congress on Schizophrenia Research, Colorado Springs, Colorado, March 29 - April 2, 2003.
152. 2003: The neurobiology of violence: Insights from brain imaging. Keynote speaker, Conference on brain imaging and antisocial behavior, University of Montreal, May 7.
153. 2003: Biosocial bases of antisocial behavior. Keynote speaker, Conference on brain imaging and antisocial behavior, University of Montreal, May 7.
154. 2003: Neurodevelopment and psychopathy. Invited speaker, Symposium on Psychopathy, University of Wisconsin-Madison, July 19-21.
155. 2003: Psychophysiology, Brain Imaging, and Antisocial Personality Invited address, Third Psychopathy Symposium on “Psychiatry and the Problem of Evil, Department of Psychiatry, University of Sheffield, U.K., September 18.

156. 2003: Schizophrenia and violence. Keynote speaker, 18th Annual Noyes Schizophrenia Conference, Philadelphia, October 10.
157. 2003: Brain mechanisms and antisocial behavior. Colloquium, Division of Humanities and Social Sciences, and Computation and Neural Systems Program, California Institute of Technology, Pasadena, October 23.
158. 2003: Biological basis of violence. Invited speaker, 8th Annual Review of Psychiatry Conference, Neuropsychiatric Institute, University of California, Los Angeles, October 24-25th.
159. 2003: Biosocial bases of violence: prevention implications. Invited seminar, Columbia Center for Youth Violence Prevention, Columbia University, New York, December 1.
160. 2003: Lombroso's legacy: Crime, brain mechanisms, and development. Departmental colloquium, Department of Psychology, Harvard University, Boston, December 3.
161. 2004: Biosocial bases of violence. Taiwan National Science Council Visiting Scholar's Lecture, Institute of Criminology, National Taipei University, Taiwan, April 20.
162. 2004: Brain imaging and violence. Taiwan National Science Council Visiting Scholar's Lecture, Integrated Brain Research Unit, Taipei Veterans General Hospital, April 20.
163. 2004: Brain mechanisms and antisocial behavior. Taiwan National Science Council Visiting Scholar's Lecture, Institutes of Psychology and Criminology, National Chung Cheng University, Chiayi, Taiwan, April 21.
163. 2004: Biological basis of violence: prevention implications. Taiwan National Science Council Visiting Scholar's Lecture, Institutes of Psychology and Criminology, National Chung Cheng University, Chiayi, Taiwan, April 21.
164. 2004: The impact of environmental enrichment in reducing schizotypy and criminal behavior in adulthood. Borchard Foundation Conference on "Crime and schizophrenia: Causes and cures". Chateau de la Bretesche, Missillac, Brittany, France, 13-16 June.
165. 2004: Crime, brain mechanisms, and development. Grand Rounds, Department of Psychiatry, University of Southern California, July 6.
166. 2004: Biosocial bases of violence. Departmental Colloquium, Department of Psychology, Virginia Tech, October 8.

167. 2004: Violence: An interdisciplinary, clinical neuroscience perspective. Invited speaker, Annual Bellarmine Forum on "Violence: An interdisciplinary Investigation into the Human Spirit. Loyola Marymount University, Los Angeles, November 7-13
168. 2005: Antisocial Behavior: Brain Mechanisms, Development, and Prevention. Departmental colloquium, Department of Psychology, Chinese University of Hong Kong, Hong Kong, March 15.
169. 2005: Biosocial bases of violence. Opening Address, UNESCO International Congress on Violence and its Contexts, Santiago de Compostela, Spain, April 14.
170. 2005: The biopsychosocial bases of violence. Graduate School of Criminology, National Taipei University, Taiwan, April 21, 2005.
171. 2005: Lombroso's legacy: Crime, brain mechanisms, and development. Keynote speaker, 2nd International Conference on Crime and its Control, Taipei, Taiwan, April 22.
172. 2005: Unlocking the criminal mind: The biosocial keys. Distinguished Lecture Series, University of Hong Kong, April 29.
173. 2005: Neurobiology of violence. Key speaker at the RIKEN Brain Science Institute Summer Program Lecture Course on "Neurobiology of Mental Disorders and the Mind", Tokyo, Japan, July 11-22.
174. 2005: The neurobiology of violence: Brain imaging findings. Japanese Society for Neuroscience, July 26-28, Yokohama, Japan.
175. 2005: The Mauritius Child Health Project. Lifetime Perspectives on Risk, Prediction, and Development, Symposium in Honor of Sarnoff A. Mednick, Yountville, CA, September 11.
176. 2005: Criminal Behavior: A Clinical Neuroscience Perspective. Invited Colloquium, Department of Criminology, University of Pennsylvania, October 17.
177. 2005: The neurobiology of criminal behavior. Department of Psychiatry, University of Pennsylvania, December 19.
178. 2006: Environmental enrichment, biology, and the development of antisocial behavior. Invited address, Seventh Annual Meeting of the Pediatric Therapy Network, Long Beach, CA, February 24.

179. 2006: Antisocial Behavior: Brain Mechanisms, Prevention, and Moral Responsibility. Invited Address, American Psychological Association, New York, May 25-28.
180. 2006: Biocriminology: A new generation of research on criminal behavior. Invited address, Stockholm Prize Symposium, University of Stockholm, Stockholm, June 15-17.
181. 2006: Antisocial personality disorder and psychopathy: Social neuroscience perspectives. Invited speaker, Workshop on Biology of Social Cognition, Cold Spring Harbor Laboratory, New York, July 17.
182. 2006: "Lombroso's legacy: Violence, brain mechanisms, and moral responsibility". Keynote address, International Society for Research on Aggression, Minneapolis, July 22-25.
183. 2006: Antisocial Behavior: Brain Mechanisms, Prevention, and Moral Responsibility. Departmental Colloquium, Department of Psychology, University of Arizona, Tucson, Arizona, September 15.
184. 2006: Violence, brain mechanisms, and moral responsibility. President's Council Meeting, Cold Spring Harbor Laboratories, New York, October 6.
185. 2006: Development of antisocial behavior in children and adults. Department of Psychology and Social Behavior, University of California, Irvine, October 9th.
186. 2006: Brain mechanisms and criminal behavior: Implications for criminal justice policy. Ministry of Justice, The Hague, Netherlands, October 17.
187. 2006: Neural basis of immoral behavior. Master Lecture, Department of Psychiatry, Free University, Netherlands.
188. 2006: The immoral brain: Evolution, brain structure, and cheating. Invited address, Conference on "The Moral Sense", Ghent University, Ghent, Belgium, October 20-21.
189. 2006: Antisocial Behavior: Brain Mechanisms, Prevention, and Moral Responsibility. Baylor Medical College November 16.
190. 2007: Stopping crime before it starts: A fishy story from the island of Mauritius. Department of Criminology Seminar Series, University of Pennsylvania, January 19.
191. 2007: The neuroanatomical basis of antisocial, aggressive behavior. Invited paper, Symposium on "What are the Sociobiological Bases for Aggression", American

Neuropsychiatric Association, Tucson, Arizona, 16-20 February.

192. 2007: Violence: Brain Mechanisms, Prevention, and Moral Responsibility. Departmental Colloquium, Department of Forensic Psychiatry, University of Kuopio, Finland, March 13, 2007.
193. 2007: Biology, treatment, and antisocial behavior in children and adults. Departmental Colloquium, Department of Psychology, Cardiff University, Wales, March 15, 2007.
194. 2007: Brain imaging research on violence: implications for society. Departmental Colloquium, Imaging Neuroscience, Institute of Neurology, University College London, London, England. March 16, 2007.
195. 2007: Emotions, morality, and criminal responsibility. Keynote speaker, Foundation for Psychocultural Research, UCLA, Los Angeles, April 1.
196. 2007: The brain basis to violent and psychopathy: Moral, ethical, and legal implications. Keynote speaker, Grand Office of Prosecution, Seoul, South Korea, April 4.
197. 2007: Crime intervention and prevention: Biosocial interventions in community and prison settings. Keynote speaker, Department of Juvenile Justice and Corrections, Seoul, South Korea, April 5.
198. 2007: The developmental of antisocial behavior: a biosocial perspective. Keynote address, Society for Life History Research, Atlanta, April 25-28.
199. 2007: Moral decision-making and antisocial behavior. Departmental Colloquium, Department of Behavioral Biology, University of Utrecht, Netherlands, May 29.
200. 2007: The neurobiology of crime and psychopathy. Departmental Colloquium, Free University, Amsterdam, May 31.
201. 2007: Preventing murder through nutritional interventions. Invited address, Stockholm Prize Symposium, University of Stockholm, Stockholm, June 4-6.
202. 2007: What does neuroscience tell us about crime as an addiction? Invited talk, MacArthur Neuroscience and Law Project, University of Santa Barbara, September 14.
203. 2007: Antisocial personality disorder and Schizotypy. Keynote address, International Congress of Personality Disorders, The Hague, Netherlands, September 19-22.

204. 2007: Preventing Violence with Better Nutrition. Keynote speaker, National Taipei University. Department of Criminology, Taipei, Taiwan, October 11.
205. 2007: Psychopaths: Early developmental risk factors and dysfunctional brain mechanisms. Keynote address, International Conference on Violence and Drug Abuse, Hsuan Chuang University, Hsinchu, Taiwan, October 12.
206. 2007: Neurocriminology and neuroethics: Brain systems that predispose to violent and antisocial behavior, and ethical implications for society. Departmental Colloquium, Department of Psychology, National Taiwan University, Taipei, Taiwan, October 12.
207. 2007: Violence: Brain mechanisms and moral responsibility. Symposium on "Neurobiology of Escalated Aggression and Violence". Society for Neuroscience, San Diego, November 3-7.
208. 2007: Crime prevention through experimental nutritional intervention. Symposium on "Criminal Justice's Need for Experimental Research". American Society of Criminology, Atlanta, November 14-17.
209. 2007: The neurobiology of antisocial behavior, violent, and psychopathic behavior. Invited address, National Academy of Neuropsychology, Scottsdale, Arizona, November 14-18.
210. 2008. Brain mechanisms, moral decision-making, and antisocial behavior. Board of the British Neuropsychiatric Association, Wales, February 7- 8.
211. 2008. Neurobiological treatment implications for aggression and violence: Clinical neuroscience perspectives. Welsh Institute of Cognitive Neuroscience, Wales, February 9.
212. 2008. Neural bases of antisocial behavior: Neuroethical and neurolegal implications. Finnish Psychiatric Association, Helsinki, Finland, March 13.
213. 2008. Neural bases of antisocial behavior: Neuroethical and neurolegal implications. Neuroscience Speaker Series, Temple University, April 2.
214. 2008. The biology and social implications of free will. Invited speaker, IVth Brazilian Congress of Brain, Behavior and Emotion, Porto Alegre, Brazil, May 21.
215. 2008. The neurobiology of crime. Keynote speaker, IVth Brazilian Congress of Brain, Behavior and Emotion, Porto Alegre, Brazil, May 22.

216. 2008. Neuroimaging in pathological liars and antisocials. Invited speaker, IVth Brazilian Congress of Brain, Behavior and Emotion, Porta Alegre, Brazil, May 22.
217. 2008. Brain imaging and neurocognitive evidence of both limbic and frontal dysfunction in spouse abusers. Stockholm Criminology Symposium, Speaker, Symposium on Brain mechanisms and antisocial behavior in adolescents and adults: The role of emotion processing. Stockholm, Sweden, June 16-18.
218. 2008. Antisocial behavior: Dysfunctional brain mechanisms and moral decision-making. Invited speaker, International Symposium "Foundations of Human Social Behavior", University of Zurich, Zurich, Switzerland, June 18 to 21.
219. 2008. The criminal brain: How, could, and should we change it? Media seminar on "Neuroscience and Society, Penn Club of New York, New York, September 19, 2008.
220. 2008: Unlocking crime: The biological keys. Engaging Minds: Pushing the Frontiers of Knowledge. Presidential "Making History" fundraising campaign for University of Pennsylvania. Lincoln Center, New York, September 20, 2008.
221. 2008: Antisocial and aggressive behavior in childhood and adolescence: A neurodevelopmental perspective. Keynote address, 10th Anniversary Congress, European Association for Forensic Child and Adolescent Psychiatry, Psychology, Free University, Amsterdam, Netherlands, October 23.
222. 2008: Biosocial bases of antisocial behavior: Treatment and intervention implications. Penn State University, College Park, October 29, 2008.
223. 2008: Brain Imaging Evidence of Both Limbic and Frontal Dysfunction in Spouse Abusers. Symposium on Biological Bases of Criminal Behavior, American Society of Criminology. November 12.
224. 2009: Nutritional supplements as a treatment for aggression in children. University of Nanyang, Singapore, February 3.
225. 2009: Neurobiology of Violence: Neuroethical and neurolegal implications. Distinguished Speaker Series, Department of Psychological Sciences, University of Missouri-Columbia,
226. 2009: Neurobiology of Violence: Prevention and intervention implications. Keynote address, International Conference on Reintegration of Youth in Conflict With the Law, University of Javeriana, Cali, Columbia, South America, March 18-19.
227. 2009: Neurobiology of Crime: Prevention Implications. University Correctional

Health Care: New Jersey Department of Corrections, March 24.

- 228. 2009. Neurocriminology: The neurobiology of violence and its implications for neuroethics and neurolaw. Department of Police Administration, Dongguk University, Seoul, South Korea, May 26.
- 229. 2009: Is it wrong to punish prisoners? Balancing harmony with justice. Plenary Address, International Conference on Social Work and Counseling Practice, City University, Hong Kong, June 4,
- 230. 2009: Biosocial Bases of Violence: Implications for Intervention and Prevention. Keynote Address, International Conference on Social Work and Counseling Practice, City University, Hong Kong, June 4,
- 231. 2009: Successful and Unsuccessful Psychopaths: Differential Biosocial Risk Factors. Panel on Psychopathy: Biosocial Risk Factors, Prediction, Treatment, and Ethics, Stockholm, Sweden, June 16-18, 2009
- 232. 2010. The brain and antisocial personality: Neuroethical and Neurolegal Implications. Keynote Address, VI Annual Meeting of the Neuropsychology and Neuropsychiatry Society, Barcelona, Spain, March 5, 2010.
- 233. 2010: Violence Prevention: A Nutritional Approach. Keynote Address, European Federation of Child and Adolescent Psychiatry, Basle, Switzerland, September 8.
- 234. 2010: Low electrodermal fear conditioning predisposes to childhood aggression and adult crime. Symposium on neurobiological markers of antisocial behavior. Invited presentation, European Federation of Child and Adolescent Psychiatry, Basle, Switzerland, September 7-10.
- 235. 2010: The Criminal Mind. Invited Speaker, AAAS Judicial Seminar on Emerging Issues in Neuroscience, Harvard University Law School, September 20-12.
- 236. 2010: Omega-3 as a potential treatment for childhood aggressive and antisocial behavior. Abell Foundation meeting on 'Exploring the Impact of Vitamins & Micronutrients on Children's Behavior'. Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, November 4.
- 237. 2010: The neurobiology of psychopathy: Implications for intervention and prevention. Colloquium Speaker, Neuroscience Program, Florida State University, November 10.
- 238. 2010: The violent brain: A nutritional perspective. International Summit on Transdisciplinary Approaches to Violence Prevention. Virginia Tech, November 12-13.

239. 2010: Presence of a neurodevelopmental marker (cavum septum pellucidum) for limbic maldevelopment in psychopathy and antisocial personality disorder. Symposium on Brain Impairments in Offenders. American Society of Criminology, November 17-20.
240. 2011: Neurocriminology: Neuroethical & Neurolegal Implications. Invited speaker, Organization for Biology, Bio-Medical Sciences and Psychobiology, University of Amsterdam, Netherlands, January 19th.
241. 2011: Neurobiology of Antisocial Behavior. Keynote speaker, 5th Annual National Congress on Neurobiology in Forensic Psychiatry, Nijmegen, Netherlands, February 20.
242. 2011: Seeds of Sin: Early Biological Causes and Cures for Crime. Invited speaker, Engaging Minds, British Museum, London, January 22.
245. 2011: Neurocriminology: Implications for Public Policy. Colloquium speaker, Neuroscience and Public Policy Program, University of Wisconsin: Madison, February 11.
246. 2011: A neurodevelopmental basis to criminal behavior. Invited panelist, Nature, Nurture, and Antisocial Behavior: Biological and Biosocial Research on Crime. American Academy for the Advancement of Science, 17-21 February, Washington, D.C.
247. 2011: Responsibility and Neurocriminology. Invited speaker, Royal Society and National Academy of Sciences Scientific Forum on Neuroscience and the Law. March 2.
248. 2011: Neurocriminology: Neuroethical and Neurolegal Implications. Saturday Science Open Public Lecture, 7th Annual Life Sciences & Society Symposium, University of Missouri, March 18-20.
249. 2011: The Criminology-BioPsychology Interface: Implications for society. Michael Dinoff Memorial Open Public Lecture, University of Alabama, April 14.
250. 2011: Neurocriminology: The Next Frontier. Departmental Colloquium, Institute of Criminology, Cambridge University, May 5.
251. 2011: Laboratory Experiments: Neurological Predictors of Violence. New Advances in Experimental Criminology NSCR International Workshop Amsterdam, The Netherlands, May 9-10.
252. 2011: Neurocriminology: The Brain Basis to Crime. Symposium on Joint CAS-

Penn Research Center in Brain Mapping, Chinese Academy of Sciences, Beijing, May 27.

- 253. 2011: The violent brain: Causes and cures. Keynote address, 7th Brazilian Congress of Brain, Behavior and Emotions. Gramado, Brazil, June 15-18.
- 254. 2011: Neurocriminology: Implications for Free Will and the Law. Keynote address, 7th Brazilian Congress of Brain, Behavior and Emotions. Gramado, Brazil, June 15-18.
- 255. 2011: Developmental Markers for Antisocial Behavior. Keynote address, 7th Brazilian Congress of Brain, Behavior and Emotions. Gramado, Brazil, June 15-18.
- 256. 2011: The functional neuroanatomy of antisocial personality disorder. Keynote address, 7th Brazilian Congress of Brain, Behavior and Emotions. Gramado, Brazil, June 15-18.
- 257. 2011: Neurocriminology: Neuroethical and neurolegal implications. Keynote Speaker, Interdepartmental Ph.D. Program for Neuroscience, UCLA, September 24, 2011.
- 258. 2011: The Criminal Mind. AAAS Judicial Seminar, Federal Courthouse, Philadelphia, November 11.
- 259. 2011: The biology of violence: Implications for the law. Society for Neuroscience, Washington DC, November 12.
- 260. 2011: Neurocriminology. Invited Speaker, Presidential Symposium, American Society of Criminology, November 16.
- 261. 2011. The Fearless psychopath: Neurobiological research on psychopathy Invited Speaker, Health Promotion Board, Department of Child and Adolescent Psychiatry, Institute of Mental Health, Singapore, December 7.
- 262. 2012: The brain basis to crime: Ethical and legal implications. Invited Address, Psi Chi / SEPA Southeastern Psychological Association, New Orleans, February 16.
- 263. 2012: The Violent Brain: Ethical and Legal Implications. Public Lecture as Distinguished Visiting Scholar, Virginia Tech Carilion Research Institute (VTCRI) in Roanoke, Virginia, March 8.
- 264. 2012. The functional neuroanatomy of violence". Research seminar as Distinguished Visiting Scholar, Virginia Tech Carilion Research Institute (VTCRI) in Roanoke, Virginia. March 9.

265. 2012. Neurocriminology. Invited Colloquium Speaker, Department of Criminal Justice, Temple University, March 23.
266. 2012. The fearless psychopath. Maastricht, Holland. Keynote Address, 40th Annual Meeting of the Netherlands Psychiatric Association
267. 2012: Biomarkers for crime. Invited address in honor of Professor David Farrington, Institute of Criminology, University of Cambridge. April 20.
268. 2012: Crime prevention: A nutritional approach. Invited colloquium, Institute of Psychology, University of Erlangen-Nuremberg, May 21.
269. 2012: Crime prevention: A nutritional approach. Departmental Colloquium, Institute of Criminology, Cambridge University, May 24.
270. 2012. Omega-3 supplementation and cognitive behavior therapy for reducing aggressive behavior in children. Symposia presentation, Stockholm Criminology Symposium. June 11-13.
271. 2012: Child Behavior Problems: A Nutritional Approach. Grand Rounds, Department of Psychiatry, University of Vermont. September 28.
272. 2012: Neurocriminology: The Final Frontier. Department of Criminology, University of Maryland, College Park, MD. October 11.
273. 2012: The neuroscience of violence. Invited speaker, AAAS Judicial Seminar on Emerging Issues in Neuroscience, University of Minnesota School of Law, Minneapolis, October 25-26.
274. 2013: Fear conditioning and antisocial behavior. Invited address, Winter School, Bavaria, February 1.
275. 2013: Reduced Amygdala Volumes in Chinese Psychopathic Murderers. Symposium on psychopathic personality, Eastern Psychological Association, New York, March 2, 2013.
276. 2013: Neurobiology of Violence. Invited speaker, Colloquium on Law, Neuroscience, and Criminal Justice, Stanford Law School, March 14-15,
277. 2013: The anatomy of violence. Invited speaker, Student Association for Law and Mind Sciences, Harvard Law School, April 4.
278. 2013: Neurobiology of violence. Invited Speaker, AAAS Seminar on Emerging Issues in Neuroscience, Atlanta, GA, April 11-12,

279. 2013: Controversial issues in psychopathy research. Invited speaker, inaugural paper for the Jevon Scott Newman Award. Society for the Scientific Research on Psychopathy, Atlanta, 6 June.
280. 2013: The anatomy of violence: Back to the future. Invited speaker, Symposium on The Future of Criminology. Stockholm Symposium. June 10.
281. 2013: The anatomy of violence: The biological roots of crime. Keynote speaker, Dutch Society of Criminology, University of Leiden, Netherlands, June 14.
282. 2013: The anatomy of violence: The biological roots of crime. Invited Plenary Speaker, World Congress on Brain, Behavior, and Emotions: "The Making of Violence" Sao Paulo, Brazil, June 27, 2013
283. 2013: Criminal behavior and free will: New science meets old dilemmas. Invited Plenary Speaker, World Congress on Brain, Behavior, and Emotion, Sao Paulo, Brazil, June 29.
284. 2013: The anatomy of violence: The biological roots of crime. Invited colloquium, School of Criminology and Criminal Justice, Northeastern University, September 27.
285. 2013: The functional neuroanatomy of antisocial behavior in children. Invited participant, Symposia on The neurobiology of persistence in antisocial behavior. European College of Neuropsychopharmacology, Barcelona, Spain, October 8.
286. 2013: Prediction, Punishment, and Prevention. Invited speaker, Neuroscience in court. European College of Neuropsychopharmacology, Barcelona, Spain, October 8.
287. 2013: The anatomy of crime: The growing body of evidence in neurocriminology. Colloquium, Institute of Criminology, University of Cambridge, UK, October 17.
288. 2013: The anatomy of violence: The biological roots of crime. Invited speaker, Ministry of Justice, Brussels, Belgium, October 22.
288. 2013: The anatomy of violence: The biological roots of crime. Keynote speaker, 8th European Congresses on Violence in Clinical Psychiatry, Ghent, Belgium, October 25.
289. 2013: The anatomy of Violence. Invited speaker, Oxford University Psychology Society, Oxford, UK, November 6.
290. 2013: The anatomy of violence. Grand Rounds, Department of Neurology, University of Maryland Medical School, Baltimore, November 13.

291. 2013: The anatomy of violence. Public lecture, College of Charleston, November 14.
292. 2013: The anatomy of violence. Keynote speaker, University Correctional Health Care, Mercerville, NJ, November 18.
293. 2013: The future of biosocial criminology. Invited speaker, Presidential Panel, American Society of Criminology, Atlanta, November 20.
294. 2013: The anatomy of violence. Keynote address, Congress on Forensic Psychiatry, Utrecht, Netherlands, December 17.
295. 2014 The anatomy of violence. Keynote address, Taiwan Society of Cognitive Neuroscience, National Central University, Taiwan, January 18.
296. 2014. The anatomy of violence: The Biological Roots of Crime. Annual Lecture, School of Law, University of Leeds, February 5.
297. 2014. The anatomy of violence: The biological roots of crime. The Anatomy of Violence: The Biological Roots of Crime. Centre for Criminology, University of Oxford, February 27.
298. 2014. The anatomy of violence: The biological roots of crime. Departmental Seminar, Department of Psychology, University of York, March 4.
299. 2014. The anatomy of violence: Dissecting the biological roots of crime. Center for Liberal Arts and Social Science Distinguished Public Lecture Series Scheme, Nanyang Technological University, Singapore, March 11.
300. 2014. The anatomy of violence: Implications for crime prevention, prediction, and punishment. Public Lecture, Nanyang Technological University, Singapore, March 13.
301. 2014: Neurocriminology: Pitfalls and Potential Lunchtime seminar, Institute of Criminology, University of Cambridge, Cambridge, UK, March 28.
302. 2014. The anatomy of violence: The biological roots of crime. Invited speaker, symposia on "Violent Crime", Arizona State University, April 4.
303. 2014. Violence: Biological causes and treatment. Invited speaker, 2014 GALA 5th Anniversary Great Debate: Transcending Our Origins: Violence, Humanity, and the Future. Arizona State University, April 5.
304. 2014. Hot-blooded fights, cold blood-spilling, and the brain: Two different forms of

- aggression. Plenary Speaker, Symposium on “The role of positive and negative aggression”, International Congress on Brain, Behavior, and Emotion, Montreal, Canada, April 8.
305. 2014. The functional neuroanatomy of psychopathic behavior. Invited speaker, Symposium on “The role of positive and negative aggression”, International Congress on Brain, Behavior, and Emotion, Montreal, Canada, April 8.
306. 2014. The anatomy of violence: The biological roots of crime. Keynote address, Association of Psychological Science Annual Convention, San Francisco, May 23.
307. 2014: The Biological Roots of Crime: Implications for Prediction, Prevention, and Punishment. Annual Nigel Walker Lecture, Institute of Criminology, University of Cambridge, June 5.
308. 2014: Structural amygdala impairments and callous-unemotional behavior in children. Invited participant, Symposium on “*Neurocriminology: Implications for theory, etiology, and treatment*”. Stockholm Symposium, Stockholm, June 9.
309. 2014: The anatomy of violence: The biological roots of crime. Public lecture, York Festival of Ideas organized by York Theatre Royal, York Museums Trust, the National Centre for Early Music and the Joseph Rowntree Foundation. York, UK, June 15.
310. 2014: The anatomy of violence: The biological roots of crime. Invited address, Conference on “The anatomy of violence”. University of Maia, Porto, Portugal, June 18.
311. 2014: The brain on trial: Are brain-damaged criminals responsible? Keynote address, Annual Forensic Psych Events, Thomas Moore University, Keynote Speaker, Antwerp, Belgium, June 24.
312. 2014. The anatomy of violence: The biological roots of crime. Invited speaker, Conference on Antisocial Behavior, Institute of Psychiatry, King's College, London, June 20.
313. 2014: The anatomy of violence: The biological roots of crime. Invited speaker, Annual Conference, Open University Psychological Society, Warwick, UK, July 4-5.
314. 2014: The anatomy of violence: The biological roots of crime. Presidential Address, 31st Annual Meeting of the American Association of Clinical Anatomists, Orlando, Florida, July 9.

315. 2014: The anatomy of violence: The biological roots of crime. Invited departmental seminar, Violence Prevention Research Unit, Queen Mary, University of London, July 15.
316. 2014: The anatomy of violence: The biological roots of crime Plenary address, American Psychological Association, Washington DC, August 9.
317. 2014: Nutritional enhancements for antisocial and violent behavior. Presidential Commission for the Study of Bioethical Issues, Washington DC, August 20.
318. 2014: The anatomy of violence: The biological roots of crime. Invited Speaker, Evanston, Illinois, September 19.
319. 2014: The anatomy of violence: The biological roots of crime. Invited speaker, Weaver Foundation for Law and Psychiatry, University of Cincinnati, October 1.
320. 2014: The Anatomy of Violence: Dissecting the Biological Roots of Crime. Keynote Address, New England Psychological Association, Lewiston, Maine, October 18.
321. 2014: The Anatomy of Violence: Dissecting the Biological Roots of Crime Invited speaker on "The Criminal Mind: The Impact of Neuroscience on Culpability and Sentencing". Judicial Institute of Maryland, Annapolis, October 22.
322. 2014: The Anatomy of Violence: The Biological Roots of Crime. Inaugural speaker, First Annual G.V.R. Khodadad Endowed Lecture on the Neurobiology of Aggression. Department of Psychology, Tufts University, Medford, MA, October 24.
323. 2014: The Criminal Brain. Invited Public Lecture, "The brain and society", Franklin Institute, Philadelphia, October 28.
324. 2014: The Anatomy of Violence: The Biological Roots of Crime St. Catherine of Siena Center, Annual Lecture on the Intersection Between Science and Religion, Dominican University, Illinois, November 13.
325. 2014: Sin and Pathology: Theology, Neuroscience, and the Roots of Violence. 2014 Albertus Magnus Luncheon Address, St. Catherine of Siena Center, Dominican University, Illinois, November 14.
326. 2014: Amygdala Impairment in Antisocial Children: The role of early social adversity. Invited symposia panelist on "Psychopathy and Aggression Across the Life Span: Neurocriminological Approaches", American Society for Criminology, Chicago, November 19.

327. 2015: Neurocriminology: The brain basis to crime. Invited speaker to seminar series, Neuroscience Institute, University of Tennessee Health Science Center, Memphis, February 10.
328. 2015. The Biology of Crime, Violence, and Psychopathy. Keynote Speaker, Continuing Education event on The Biology of Crime, Violence, and Psychopathy. Criminal Justice Department, Seattle University, WA, May 1.
329. 2015: The Anatomy of Violence: The Biological Roots of Crime. Town Hall Evening Speaker, Seattle, WA, May 1.
330. 2015: Nutrition and Antisocial Behavior: A Fishy Story from the Island of Mauritius. Departmental Colloquium, Department of Psychology, Nanyang Technological University, Singapore, August 6.
331. 2015: The Anatomy of Violence: Dissecting The Biological Roots of Crime. Colloquium, Social Sciences Division, Yale-NUS College, August 11.
332. 2015: Preventing, Predicting and Punishing Crime: What Does the Brain Tell Us? Invited Seminar, Singapore Prison Service, Ministry of Home Affairs, August 11
333. 2015: The Biological Roots of Crime. Invited speaker on Neuroscience and the Law. Willam and Mary College, Williamsburg, Virginia. 29 October.
334. 2015: Biological Roots of Crime. Keynote Speaker, Peace and Justice Lecture Series, College of St. Scholastica, Duluth, November 5.
335. 2015: The Anatomy of Violence. Author Meets Critics, Symposium, American Society of Criminology, Washington DC, November 19.
336. 2016: The Anatomy of Violence. *Lectio magistralis*. BrainCircleItalia, Teatro Franco Parenti, Milan, March 7.
337. 2016: The Anatomy of Violence. Keynote Address, European Center for Law, Science, and New Technologies. Interdepartmental Research Center, University of Pavia, Pavia, March 8.
338. 2016: The Anatomy of Violence. Keynote Address, University of Turin, March 9.
339. 2016: The Anatomy of Violence: Dissecting the biological roots of crime. 20th Annual Margaret Van Horn Lecture, Rutgers University, April 11, 2016
340. 2016: Neurocriminology: Implications for the prediction, prevention and punishment of crime. Keynote Address, Second International Congress on Criminology, University of Murcia, Spain, April 13.

341. 2016. Cognitive Decline as a Result of Incarceration and the Protective Effects of Mindfulness: A Randomized Controlled Trial. Symposium on “Brain-based interventions for reducing antisocial behavior: Mindfulness and transcranial direct current stimulation.”, Stockholm Prize Symposium, University of Stockholm, Stockholm, June 14-16.
342. 2016: The biology of crime: Implications for punishment, prediction, and prevention. Keynote Address, Asian Conference of Criminal and Operations Psychology, Singapore, July 13.
343. 2016: Selfishness: Egocentric, Adaptive, and Pathological Forms. Departmental Colloquium, Division of Psychology, Nanyang Technological University, Singapore, August 16.
344. 2016: The Criminal brain: Implication for predicting, preventing, and punishing offenders. Public Lecture, University of York, UK, October 6.
345. 2016: The Criminal Brain: Implications for prediction, prevention, and punishment. Colloquium, School of Criminal Justice, SUNY Albany, November 4.
346. 2017: The Psychopath as a Disorder of Attachment: Ethical Issues. Invited Speaker, Public Panel on “Ethics and Pathologies of Attachment”, University Center for Human Values, Princeton University, February 27.
347. 2017: Early risk factors for violence. Invited speaker, Conference on “Early in Life Origins of Violent Behavior In Males”. Santa Fe Boys Educational Foundation, San Diego, March 16-19, 2017.
348. 2017: The anatomy of violence: The biological roots of crime. Colloquium Speaker, Lehigh Carbon Community College, March 28.
349. 2017: Violence, The Brain, and Responsibility. AAAS Judicial Seminar on Emerging Issues in Neuroscience, Duke University, May 8-9.
350. 2017: Psychopathy as a neurodevelopmental disorder Keynote Address, Society for the Scientific Study of Psychopathy, Antwerp, Belgium, May 22.
351. 2017: The anatomy of violence: The biological roots of crime. Keynote Address, European Association of Psychology and Law, Mechelen, Belgium, 28-31 May,
352. 2017: Benign biological interventions to reduce offending. Invited speaker, 3rd Conference on Justice Without Retribution, Ghent University, June 2-3.
353. 2017: Fighting Violence with Better Brains: A Health Perspective on Violence.

- Keynote Address, Biology, Brain and Emotion, XIth Brazilian Congress of Brain, Behavior and Emotion, Porto Alegre, Brazil, June 14-17.
354. 2017: Biological risk factors for crime. Presenter at the Round-Table on Biology and Violence". Biology, Brain and Emotion, XIth Brazilian Congress of Brain, Behavior and Emotion, Porto Alegre, Brazil, June 14-17.
355. 2017: The anatomy of violence: Dissecting the biological roots of crime. Grand Rounds, Department of Psychiatry and Behavioral Sciences, Feinberg School of Medicine, Northwestern University, September 20, 2017
356. 2017: The anatomy of violence: Dissecting the biological roots of crime. Invited Colloquium, Center for Psychology and the Law, University of California, Irvine, October 12.
357. 2017: The do's and don't of writing journal articles. Invited seminar, Department of Psychology, University of Hong Kong, October 17.
358. 2017: Writing a successful grant application. Invited workshop, Department of Psychology, University of Hong Kong, October 18.
359. 2017: The anatomy of violence: The biological roots of crime. Keynote address, Japanese Society of Sociological Criminology, October 21.
360. 2017: Fighting Violence with Better Brains: A Health Perspective on Crime. Keynote address. Plenary address, International Life Course Centre Conference, Sydney, Australia, October 26.
361. 2017: The anatomy of violence: Dissecting the biological roots of crime. Kirby Institute, The University of New South Wales, Brisbane, Australia, October 30.
362. 2017: The anatomy of violence: The biological roots of crime. Queensland Brain Institute and the Life Course Centre, The University of Queensland, Brisbane, Australia, October 30.
363. 2017: The early biological roots of male antisocial behavior. Invited speaker, Workshop on The Early-in-Life Origins of Violent Behavior in Males. Chicago, November 10.
364. 2017: Daytime drowsiness in teenagers as a long-term predictor of adult crime. Seminar on sleep, American Society of Criminology, Philadelphia, November 16.
365. 2017: The anatomy of violence. Grand Rounds, Department of Psychiatry & Clinical Sciences, University of Texas Southwestern Medical Center, Dallas, November 29th.

366. 2017: The Anatomy of Violence: Dissecting the Biological Roots of Crime. University of Texas, Dallas, Program in Criminology & Criminal Justice, Distinguished Speaker Series, November 28.
367. 2018: Neuroforensic Psychology. Invited lecture, Department of Psychology, University of York, UK, March 1.
368. 2018: Social neuroscience and psychopathy: Etiology and treatment. Invited seminar speaker, "Responsibility, Punishment, and Psychopathy: At the Crossroads of Law, Neurocriminology, and Philosophy", Presidential Scholars in Society and Neuroscience Program, Columbia, April 9.
369. 2018: Neurocriminology: Implications for Law. Invited speaker, AAAS Judicial Seminar, Emerging Issues in Neuroscience. on Emerging Issues in Neuroscience, Pittsburgh, May 31.
370. 2018: The Anatomy of Violence: Dissecting the Biological Roots of Crime. Keynote address, Dutch Neuroscience Meeting, Lunteren, Netherlands, June 7.
371. 2018: Neurocriminology: An emerging discipline. Invited Seminar, Faculty of Law, University of Bialystok, Poland, June 11.
372. 2018: Scientific writing. Invited seminar, Nanyang Technological University, Singapore, July 5.
373. 2018: Successful grant writing. Invited workshop, Nanyang Technological University, July 10.
374. 2018: A Social Neuroscience Perspective on Antisocial Behavior: A dialogue between scientists and practitioners. The Open University of Hong Kong, Hong Kong, July 16.
375. 2018: The fascinating story of sleep, sleepiness, cognition and crime: time to wake up. Invited keynote, Renaissance São Paulo Hotel, Sao Paulo, Brazil, August 17.
376. 2018: Parenting aggressive adolescents: biology of puberty and behavioral outcomes Round Table Discussion, "Meeting of the Minds", Renaissance São Paulo Hotel, Sao Paulo, Brazil, August 17.
377. 2018: Minority Report: The future of crime prediction and prevention. Invited presentation, Brain Circle Italia, Maker Fair Rome, "Can criminal behavior be predicted". Casa del Cinema, Villa Borghese, Rome, October 1.
378. 2018: A BioPsychoSocial Approach to Criminological Research. Keynote address, Conference on Forensic Science and Neuroscience, Amsterdam, Netherlands, October 4. Royal Academy Colloquium, "Bridging the gap between neuroscience

and the criminal justice practice.” Royal Netherlands Academy of Arts and Sciences, Amsterdam, October 4-5, 2018

- 379. 2018: Omega-3 to reduce antisocial behavior. Invited paper, Academy Colloquium, “Bridging the gap between neuroscience and the criminal justice practice.” Royal Netherlands Academy of Arts and Sciences, Amsterdam, October 4-5, 2018
- 380. 2018: A neurodevelopmental perspective on antisocial personality disorder. Keynote address, 5th Bergen International Conference on Forensic Psychiatry, Bergen, Norway, 23rd – 25th October.
- 381. 2018: Neurocriminology. Invited speaker, 2018 Annual Delaware Neuroscience Research and Poster Symposium. November 30.
- 382. 2019: The Anatomy of Violence. Invited speaker, Oxford University Psychology Society, Corpus Christi College, University of Oxford, March 4.
- 383. 2019: The Anatomy of Violence: Dissecting the biological roots of crime. Institute of Criminology, University of Cambridge, March 6.
- 384. 2019: The Anatomy of Violence: A Tribute to Sarnoff Mednick. Invited speaker, Sarnoff Mednick Memorial Lecture, Dept. of Psychology, USC, April 26, 2019.
- 385. 2019. A neurodevelopmental perspective in male violence. Invited speaker, Conference on “Boys at Risk”. Santa Fe. May 1.
- 386. 2019: Neurobiology of violence. RWTH Aachen University, Aachen, Germany, May 28.
- 387. 2019: The Anatomy of Violence: Dissecting the biological roots of crime. Jülich Research Centre, Jülich, Germany, May 29.
- 388. 2019: The Children of Mauritius: What They Teach us About Fear, Psychopathy and Violence. Invited Speaker, Congress on Brain, Behavior and Emotions, Brasilia, 6 June, 2019.
- 389. 2019: Reducing Violence Through Brain Stimulation, Nutrition, and Early Environmental Enrichment. Plenary Speaker, Congress on Brain, Behavior and Emotions, Brasilia, 7 June, 2019.
- 390. 2019: The Immoral Brain and the Science of Evil: Can the Immoral Brain be Fixed? Invited Speaker, Congress on Brain, Behavior and Emotions, Brasilia, 8 June, 2019.
- 391. 2019: The Anatomy of Violence: Dissecting the Biological Roots of Crime. Keynote

- address, Congress on Forensic Psychiatry, Rotterdam, Netherlands, June 21.
392. 2019: The Anatomy of Violence. Distinguished Lecture, Department of Neuroscience, College of Pharmacy, University of Utah, September 20.
393. 2019: The neuroscience of violence. Invited speaker, AAAS Judicial Seminar on Emerging Issues in Neuroscience, University of Denver, September 23-24, 2019.
394. 2019: The neuroscience of violence. AAAS Judicial Seminar on Emerging Issues in Neuroscience, University of Denver, September 23-24, 2019.
395. 2019: The uncomfortable truth on psychopaths. Invited speaker, Science Speakeasy, Life Science Centre, Newcastle upon Tyne, England, October 10.
396. 2019: The neurobiology of violence. Invited speaker, AAAS and Office of Judicial Education of the State of Wisconsin, Osthoff Resort, Elkhart, Wisconsin, November 6-7.
397. 2019: Omega-3 Supplementation in Young Offenders: A Randomized, Stratified, Double-Blind, Placebo-Controlled, Parallel Group Trial. Symposium on Experimental Neurocriminology: Randomized, Controlled Trials Involving Biological Manipulations or Moderators, American Society of Criminology, San Francisco, November 12-16.
398. 2019: Neurocriminology, Part 1. Symposium on Neuroscience and Criminology, Pontifícia Universidade Católica do Rio Grande do Sul, Porto Alegre, Brazil, December 9.
399. 2019: Neurocriminology, Part 2. Symposium on Neuroscience and Criminology, Pontifícia Universidade Católica do Rio Grande do Sul, Porto Alegre, Brazil, December 10.
400. 2020: New developments in neurocriminology. Invited speaker, symposium on *Cutting Edge Developments in Neuroscience and Law*, Neuroscience and Law Center, Fordham Law School, February 25.
401. 2021: Murderous Minds: Can We See the Mark of Cain? Keynote Speaker, Science and Cocktails, Niels Bohr Institute, Copenhagen, Denmark, May 28.
402. 2021: Is It Wrong to Punish Prisoners? TedX, Vienna, Austria, October 23.
403. 2021: The Neurobiology of Violence: Theory and Practice. Keynote Speaker, 9th International Conference on Current Trends in Psychology, University of Novi Sad, Serbia, October 28-30.

404. 2021: Neurocriminology: Etiology. Symposium on Neuroscience and Criminology, Pontifícia Universidade Católica do Rio Grande do Sul, Porto Alegre, Brazil, November 4.
405. 2021: Neurocriminology: Societal Implications. Symposium on Neuroscience and Criminology, Pontifícia Universidade Católica do Rio Grande do Sul, Porto Alegre, Brazil, November 5.
406. 2022: “Is it wrong to punish prisoners?” Psychology Society, Trinity College, University of Cambridge, May 12.
407. 2022: Will Neuroscience Change Fundamentally the Nature of Court Practice? Invited debate speaker, British Academy of Forensic Sciences, Gray’s Inn, London, May 14.
408. 2022: Biology and Crime: Forensic Implications. Keynote speaker, Pieter Baan Center, Ministry of Security and Justice, Utrecht, Netherlands, May 16.
409. 2022: The Anatomy of Violence: Implications for forensic practice. Swedish Association of Forensic Psychology, Stockholm, Sweden, May 24-25.
410. 2022: Childhood sleep problems at age 11 as a risk factor for crime at age 23: Implications for Desistance. Invited speaker, panel on Biopsychosocial Risk Factors for Crime and Psychopathy: Risk and Desistence. Stockholm Symposium, Sweden, June 14.
411. 2022: Brain Mechanisms and Antisocial Behavior: Preventative Solutions for Children and Youth. Department of Juvenile Observation and Protection, Bangkok, September 28.
412. 2022: The Anatomy of Violence. Invited Colloquium, Department of Psychology, University of Canterbury, Christchurch, October 6.
413. 2022: The Anatomy of Violence: Dissecting the Biological Roots of Crime. Invited Colloquium, School of Psychology, University of Otago, Dunedin, October 14.
414. 2022: Oranga Tamariki (Ministry for Children), October 12.
415. 2022: Omega-3 Supplementation to Reduce Antisocial Behavior. Keynote Address, Conference on “Aggression and the Brain”, Victoria University of Wellington, October 17.
416. 2022: Brain health and crime: Prevention implications. Keynote Address, Conference on “Impact of brain health on correctional settings”. Ara Poutama Department of Corrections, Wellington, New Zealand, October 19.

417. 2023: Brain Science and Violence: Causes and Cures. Invited Speaker, International Symposium on Neuropsychology and Brain Sciences, Hong Kong University, 19-20th October.
418. 2023: A Mind to Violence: Potential Health Solutions. Keynote address, A Mind to Violence Conference, Victoria University of Wellington, 7th December.
419. 2023: The anatomy of violence: The biological roots to crime. School Colloquium, School of Psychological and Social Sciences, University of Waikato, Hamilton, New Zealand, December 13.
420. 2024: The patient experience. Invited speaker, Spotlight on Stomach Cancer 2024 Conference, Perelman School of Medicine, University of Pennsylvania, October 25.
421. 2025: Murderers, Successful Criminals, and Omega-3. Aggression and the Mind Conference, Victoria University of Wellington, Friday March 7.
422. 2025: Brain Mechanisms and the Criminal Mind: Neuroethical and Neurolegal Implications. Invited colloquium speaker; School of Psychology, University of Auckland, March 13.
423. 2025: Brain Mechanisms and the Criminal Mind: Neuroethical and Neurolegal Implications. Invited evening talk, Australian Psychological Society's Forensic College, Sydney, Australia, March 17.
424. 2025: The Anatomy of Violence: The Biological Roots of Crime. Keynote Address, Risk and Recovery Forensic Conference, Hamilton, Canada, April 23.
425. 2025: A Mind to Violence: Potential Health Solutions. Invited speaker, Risk and Recovery Forensic Conference, Hamilton, Canada, April 24.
426. 2025: Neurocriminology: Applications. Invited speaker, Biosocial Criminology; Why and how it matters for Criminal Justice. Seattle University, May 9.
427. 2025: A Mind to Violence: Potential Health Solutions. Invited speaker, Home Office, London, May 21.
428. 2025: David Farrington and Successful Criminals. Invited speaker, The David P. Farrington Memorial Symposium, University of Cambridge, May 23.
429. 2025: Reduced Amygdala and Lateral Orbitofrontal Volumes in Pretrial Murderers: The Role of Psychopathy. Malaga Conference on the Brain Mechanisms

Implicated in Psychopathy and Aggression, Malaga, Spain, 27-29 May.

430. 2025: The anatomy of violence. Invited speaker, John Jay College of Criminal Justice, New York, September 30.
431. 2025: Biological foundations of criminal behavior: Implications for treatment. Guest speaker, Department of Criminal Justice, Criminology, and Forensics, November 3.
432. 2025: The anatomy of violence: Implications for prevention, prediction, and punishment. Invited speaker, National Academy of Neuropsychology, Los Angeles, November 6.

OTHER CONFERENCE PAPERS (first author only)

1. 1980: Classical conditioning and socialization - a biosocial interaction. Psychophysiology Society, London, England.
2. 1981: Cortical augmenting-reducing - modality specific? Psychophysiology Society, London, England.
3. 1986: P300 and psychopathy. Psychophysiology Society, London, England.
4. 1988: Evoked potential augmenting-reducing and smooth-pursuit eye movements in criminals and psychopaths. Society for Psychophysiological Research, San Francisco, California.
5. 1988: Evoked potential augmenting-reducing in psychopaths and criminals with impaired smooth-pursuit eye movements. Psychophysiology Society, London, England.
6. 1989: Interhemispheric transfer in schizophrenics, depressives, and normals with schizoid tendencies. International Congress on Schizophrenia Research, San Diego, California.
7. 1989: Relationship between electrodermal, cardiovascular, and cortical measures of arousal and orienting at age 15 and criminality at age 24. Society for Psychophysiological Research, New Orleans.
8. 1989: Relationships between tonic and phasic heart rate at age 15 and positive/negative schizophrenia at age 26. Society for Psychophysiological Research, New Orleans.

9. 1989: Electrodermal, cardiovascular, and cortical predictors at age 15 of criminality at age 24. Society for Research in Psychopathology, Miami, Florida.
10. 1989: Tonic and phasic heart rate at age 15 and positive/ negative schizophrenia at age 26. Psychophysiology Society, Bristol.
11. 1990: Reduced frontal area and poorer functioning in schizophrenics. Fifth Biennial Winter Workshop on Schizophrenia, Badgastein, Austria.
12. 1990: Structural and functional pre-frontal deficits in schizophrenia. Western Psychological Association, 70th Annual Convention, Los Angeles, April 26-29.
13. 1990: Psychophysiological predictors at age 15 of criminal behavior at age 24. Western Psychological Association, 70th Annual Convention, Los Angeles, April 26-29.
14. 1990: Neuroanatomical correlates of skin conductance orienting in normal humans: A magnetic resonance imaging study. Society for Psychophysiological Research, Boston, October 20.
15. 1990: Structural and functional pre-frontal deficits in schizophrenia. Society for Psychophysiological Research, Boston, October 20.
16. 1990: Reduced lateralization for verbal processes in adolescent psychopaths. Society for Research in Psychopathology, November 29-December 2.
17. 1990: Evidence for both structural and functional pre-frontal deficits in schizophrenia: Converging evidence from MRI, Neuropsychological, and Psychophysiological Measures. Society for Research in Psychopathology, November 29 - December 2.
18. 1991: Pre-frontal structural and functional deficits associated with schizotypal personality. 5th Biennial Meeting of the International Society for the Study of Individual Differences, Oxford, July 22-26.
19. 1991: Psychophysiological deficits in schizotypal personality disorder. Thirty-First Annual Meeting of the Society for Psychophysiological Research, Chicago, October 9-13.
20. 1992: The Schizotypal Personality Questionnaire: Genetics, Psychophysiology, Neuropsychology, and Gender Differences. Western Psychological Association, Portland, Oregon, April 30 - May 3.
21. 1992: Selective reductions in pre-frontal glucose metabolism in murderers assessed with positron emission tomography Society for Psychophysiological Research,

San Diego, October 7-10.

22. 1993: Cognitive-perceptual, interpersonal, and disorganized features of schizotypal personality. International Congress on Schizophrenia, Colorado Springs, April 17-21.
23. 1993: Erratic skin conductance orienting and eye tracking deficits in schizotypals with cognitive-perceptual deficits. Society for Research in Psychopathology, Chicago, October 7-10.
24. 1994: Autonomic nervous system factors that protect against crime.. Thirty-fourth Annual Meeting of the Society for Psychophysiological Research, Atlanta, Georgia, October 5-9.
25. 1996: Autonomic nervous system factors at age 15 years which protect against crime development at age 29 years. International Society for Research in Child and Adolescent Psychopathology, Santa Monica, CA, January 19-20.
26. 2000: Early educational and health enrichment at age 3-5 years enhances autonomic and central nervous system arousal and orienting at age 11 years. Society for Psychophysiological Research, San Diego, October 18-22.
27. 2008: Volume reductions in middle frontal and orbitofrontal gyral gray matter in antisocial personality disorder. Oral paper presentation, Society of Biological Psychiatry's 63rd Annual Scientific Convention. Washington DC, May 2.
28. 2009: Structural Brain Deformations in "Successful" and "Unsuccessful" Psychopaths. Symposium on "Neurobiological Approaches to the Study of Psychopathy", Society for the Scientific Study of Psychopathy, New Orleans, April 16-18.
29. 2011: Early Childhood Risk Factors for Psychopathic Personality in Adulthood: Findings from the Mauritius Child Health Project. Paper session on Developmental Characteristics of Psychopathy, 4th biennial meeting of the Society for the Scientific Study of Psychopathy, Montreal, Canada, May 20.
30. 2012: Reduced Amygdala Volumes in Chinese Psychopathic Murderers. Symposium, American Society for Criminology. Chicago, November 15.
31. 2022: Childhood sleep problems at age 11 as a risk factor for crime at age 23: Implications for desistance. Symposium on Stockholm Symposium, Stockholm, June 13-15.

PUBLICATIONS

Books

1. **Raine, A.** (1993) The psychopathology of crime: Criminal behavior as a clinical disorder. San Diego: Academic Press.
2. **Raine, A.**, Lencz, T. and Mednick, S.A. (Eds.) (1995). Schizotypal personality disorder. Cambridge: Cambridge University Press.
3. **Raine, A.**, Brennan, P., Farrington, D.P. and Mednick, S.A. (Eds.) (1997). Biosocial bases of violence. New York: Plenum.
4. **Raine, A.** and Sanmartin, J. (Eds.) (2000). Violencia y psicopatía. Barcelona: Ariel.
also published in English:
Raine, A., and Sanmartin, J. (Ed). (2001) Violence and psychopathy. New York: Kluwer/Plenum
5. **Raine, A.** (Ed.) (2006). Crime and schizophrenia: Causes and cures. New York: Nova Science.
6. **Raine, A.** (2013). The anatomy of violence: The biological roots of crime. New York: Pantheon / Random House; London: Allen Lane / Penguin; Amsterdam: Balans; Germany: Klenn Cotta;
7. Glenn, A. and **Raine, A.** (2014). Psychopathy: An Introduction to Biological Findings and Their Implications. New York: New York University Press.

Journal Articles and Book Chapters

1. **Raine, A.** and Venables, P.H. (1981). Classical conditioning and socialization - A biosocial interaction? Personality and Individual Differences 2 273-283.
2. **Raine, A.**, Roger, D. and Venables, P.H. (1981). The factorial validity of the CNS-IE. Journal of Personality and Social Psychology 41 758-765.
3. **Raine, A.**, Mitchell, D.A. and Venables, P.H. (1981). Cortical augmenting-reducing - modality-specific? Psychophysiology 18 700-708.
4. **Raine, A.**, Roger, D. and Venables, P.H. (1982). Locus of control and socialization. Journal of Research in Personality 16 147-156.
5. Hulme, C., Smart, A., Moran, G. and **Raine, A.** (1983). Visual kinesthetic and cross-modal development: Relationships to motor skill development. Perception 12 477-483.

6. **Raine, A.** and Venables, P.H. (1984). Electrodermal non-responding, schizoid tendencies, and antisocial behavior in adolescents. Psychophysiology **21** 424-433.
7. **Raine, A.** and Venables, P.H. (1984). Tonic heart rate level, social class, and antisocial behavior. Biological Psychology **18** 123-132.
8. Roger, D. and **Raine, A.** (1984). Stimulus intensity control and personality: A research note. Current Psychological Research **3** 43-47.
9. **Raine, A.** (1985). A psychometric assessment of Hare's Checklist on an English prison population. British Journal of Clinical Psychology **24** 247-258.
10. **Raine, A.** (1986). Psychopathy, schizoid personality, and borderline/schizotypal personality disorders. Personality and Individual Differences **7** 493-501.
11. Andrews, H., Cooper, J., Barber, C. and **Raine, A.** (1987). Early somatosensory evoked potentials in schizophrenia: Symptom pattern, clinical outcomes, and interhemispheric functioning. In R. Takahashi, P. Flor-Henry, and J. Gruzelier (Ed.). Cerebral dynamics, laterality, and psychopathology (pp.175-186). Amsterdam: Elsevier.
12. **Raine, A.** and Venables, P.H. (1987). Contingent negative variation, P3 evoked potentials, and antisocial behavior. Psychophysiology **24** 191-199.
13. **Raine, A.** and Jones, F. (1987). Attention, autonomic arousal, and personality in behaviorally disordered children. Journal of Abnormal Child Psychology **15** 583-599.
14. Venables, P.H. and **Raine, A.** (1987). Biological theory. In B. McGurk, D. Thornton and M. Williams (Eds.) Applying psychology to imprisonment: Theory and practice. (pp. 3-28). London: HMSO.
15. **Raine, A.** (1987). Validation of schizoid personality scales using indices of schizotypal and borderline personality disorder in a criminal population. British Journal of Clinical Psychology **26** 305-309.
16. **Raine, A.** (1987). Effect of early environment on electrodermal and cognitive correlates of schizotypy and psychopathy in criminals. International Journal of Psychophysiology **4** 277-287.
17. **Raine, A.** (1988). Antisocial behavior and evoked potentials. In T.E. Moffitt and S.A. Mednick (Eds.) Biological contributions to crime causation (pp. 14-39), Dordrecht: Martinus Nijhoff.

18. **Raine, A.** and Venables, P.H. (1988). Enhanced P3 evoked potentials during a continuous performance task in psychopaths. Psychophysiology **25** 30-38.
19. **Raine, A.** (1988). Psychopathy: A single or dual concept? Personality and Individual Differences **9** 825-827.
20. **Raine, A.** (1988). Antisocial behavior and social psychophysiology. In H. Wagner (Ed.) Social psychophysiology and emotion: Theory and clinical application (pp. 231-253). London: Wiley.
21. **Raine, A.** and Venables, P.H. (1988). Skin conductance responsivity in psychopaths to orienting, defensive, and consonant-vowel stimuli. Journal of Psychophysiology **2** 221-225.
22. **Raine, A.** and Manders, D. (1988). Schizoid personality, inter-hemispheric transfer, and left hemisphere over-activation. British Journal of Clinical Psychology **27** 333-347.
23. **Raine, A.**, Christie, M. and Gale, A. (1988). Relationship of lateral eye movements recorded in the dark to verbal and spatial question types. Neuropsychologia **26** 937-941.
24. Christie, M. and **Raine, A.** (1988). Lateralized hemispheric activity in relation to personality and degree course. Personality and Individual Differences **9** 957-964.
25. **Raine, A.**, Andrews, H., Sheard, C., Walder, C. and Manders, D. (1989). Interhemispheric transfer in schizophrenics, depressives, and normals with schizoid tendencies. Journal of Abnormal Psychology **98** 35-41.
26. **Raine, A.** and Allbutt, J. (1989). Factors of schizoid personality. British Journal of Clinical Psychology **28** 31-40.
27. **Raine, A.** (1989). Evoked potentials and psychopathy. International Journal of Psychophysiology **8** 1-16
28. **Raine, A.** and Mednick, S.A. (1989). Biosocial longitudinal research into antisocial behavior. Review d'Epidemiologie et de Sante Publique **37** 515-524 (editorial invitation).
29. **Raine, A.** (1989). Evoked potential models of psychopathy: A critical evaluation. International Journal of Psychophysiology **8** 29-34
30. **Raine, A.** and Venables, P.H. (1990). Evoked potential augmenting-reducing in psychopaths and criminals with poor smooth-pursuit eye movements. Psychiatry

Research 31 85-98.

31. Venables, P.H., Wilkins, S., Mitchell, D.A., **Raine, A.**, and Bailes, K. (1990). A scale for the measurement of schizotypy. Personality and Individual Differences 11 481-495.
32. **Raine, A.** and Dunkin, J.J. (1990). The genetic and psychophysiological basis of antisocial behavior: Implications for counseling and therapy. Journal of Counseling and Development 68 637-644 (editorial invitation).
33. **Raine, A.**, Venables, P.H., and Williams, M. (1990). Autonomic orienting responses in 15-year-old male subjects and criminal behavior at age 24. American Journal of Psychiatry 147 933-937.
34. **Raine, A.**, O'Brien, M., Smiley, N., Scerbo, A. and Chan, C.J. (1990). Reduced lateralization in verbal dichotic listening in adolescent psychopaths. Journal of Abnormal Psychology 99 272-277.
35. **Raine, A.**, Venables, P.H. and Williams, M. (1990). Relationships between CNS and ANS measures of arousal at age 15 and criminality at age 24. Archives of General Psychiatry (now JAMA Psychiatry) 47 1003-1007. (findings also reported and discussed in Science, 2000, 287 423).
36. **Raine, A.**, Venables, P.H. and Williams, M. (1990). Relationships between N1, P300 and CNV recorded at age 15 and criminal behavior at age 24. Psychophysiology 27 567-575.
37. Scerbo, A., **Raine, A.**, O'Brien, M., Chan, C.J., Rhee, C. and Smiley, N. (1990). Reward dominance and passive avoidance learning in adolescent psychopaths. Journal of Abnormal Child Psychology 18 451-463.
38. **Raine, A.**, Harrison, G., Reynolds, G.P., Sheard, S., Cooper, J.E. and Medley, I. (1990). Structural and functional characteristics of the corpus callosum in schizophrenics, psychiatric controls, and normal controls: An MRI and neuropsychological evaluation. Archives of General Psychiatry (now JAMA Psychiatry) 47 1060-1064.
39. **Raine, A.**, Hulme, C., Chadderton, H. and Bailey, P. (1991). Verbal short-term memory in speech disordered children: Implications for articulatory coding in short-term memory. Child Development 62 415-423.
40. **Raine, A.** and Cannon, T.D. (1991). Neuro-developmental, brain imaging, and psychophysiological perspective on the neuropsychology of schizophrenia. Behavioral and Brain Sciences 14 43-44.

41. **Raine, A.** (1991). Are lateral eye movements a valid index of functional hemispheric asymmetries? British Journal of Psychology 82 129-135.
42. **Raine, A.**, and Scerbo, A. (1991). Biological theories of violence. In J.S. Milner (Ed.) Neuropsychology of aggression (pp. 1-26). Boston: Kluwer Academic.
43. **Raine, A.** (1991). The Schizotypal Personality Questionnaire (SPQ): A measure of schizotypal personality based on DSM-III-R criteria. Schizophrenia Bulletin 17 555-564.
44. **Raine, A.**, Reynolds, G. and Sheard, C. (1991). Neuroanatomical mediators of electrodermal activity in normal human subjects: A magnetic resonance imaging study. Psychophysiology 28 548-558.
45. Kim, D., **Raine, A.**, Tryphon, N. and Green, M.F. (1992). Mixed handedness and schizotypal personality in a non-clinical sample. Journal of Nervous and Mental Disease 180 131-133.
46. **Raine, A.** (1992). Sex differences in schizotypal personality in a non-clinical population. Journal of Abnormal Psychology 101 361-364.
47. Scerbo, A., Freedman, L., **Raine, A.**, Dawson, M. and Venables P.H. (1992). A major effect of recording site on measurement of electrodermal activity. Psychophysiology 29 241-246.
48. Cannon, T.D., **Raine, A.**, Herman, T., Mednick, S.A., Schulsinger, F, and Moore, M. (1992). Third ventricle enlargement and lower heart rate levels in a high-risk sample. Psychophysiology 29 294-301.
49. **Raine, A.** and Venables, P.H. (1992). Antisocial behavior: Evolution, genetics, neuropsychology, and psychophysiology. In A. Gale and M. Eysenck (Eds.) Handbook of individual differences: Biological perspectives. London: Wiley.
50. **Raine, A.** (1992). Schizotypal and borderline features in psychopathic criminals. Personality and Individual Differences 13 717-722.
51. **Raine, A.**, Lencz, T., Reynolds, G.P., Harrison, G., Sheard, S., Medley, I., Reynolds, L.M. and Cooper, J.E. (1992). An evaluation of structural and functional prefrontal deficits in schizophrenia: MRI and neuropsychological measures. Psychiatry Research 45 123-137.
52. **Raine, A.**, Sheard, S., Reynolds, G.P., and Lencz, T. (1992). Pre-frontal structural and functional deficits associated with individual differences in schizotypal personality Schizophrenia Research 7 237-247.

53. Lencz, T., **Raine, A.**, Scerbo, A., Holt, L., Redmon, M. Brodish, S., and Bird, L. (1993). Impaired eye tracking in undergraduates with schizotypal personality disorder. American Journal of Psychiatry 150 152-154.
54. **Raine, A.** (1993). Features of borderline personality and violence. Journal of Clinical Psychology 49 277-281.
55. **Raine, A. and Lencz, T.** (1993). Brain imaging research on electrodermal activity in humans. In J.C. Roy, W. Boucsein, D.C. Fowles and J.H. Gruzelier (Eds.) Progress in electrodermal research. (pp. 115-136). New York: Plenum.
56. **Raine, A.** (1993). Violence and biology - Theory and findings. In L. Klose (Ed.). Proceedings of the Fourth Symposium on Violence and Aggression (pp. 1-28). University of Saskatchewan: Saskatoon.
57. Mills, S. and **Raine, A.** (1994). Brain imaging and violence. Journal of Offender Rehabilitation 21 145-158 (editorial invitation).
58. **Raine, A.**, Reynolds, C, Lencz, T., Scerbo, A., Triphon, N. and Kim, D. (1994). Cognitive - perceptual, interpersonal and disorganized features of schizotypal personality. Schizophrenia Bulletin 20 191-201.
59. Gruzelier, J. and **Raine, A.** (1994). Bilateral electrodermal activity and cerebral mechanisms in syndromes of schizophrenia and the schizotypal personality. International Journal of Psychophysiology 16 1-16.
60. Miczeck, K.A., Mirsky, A, Carey, G., DeBold, J. and **Raine, A.** (1994). An overview of biological influences on violent behavior (pp. 1-20). In A.J. Reiss, K.A. Miczeck and J.A. Roth (Eds). Understanding and preventing violence: Vol. 2 - Biobehavioral influences Washington D.C.: National Academy Press.
61. Freedman, L.W., Scerbo, A.S., Dawson, M.E., **Raine, A.**, McClure, W.O. and Venables, P.H. (1994). The relationship of sweat gland count to electrodermal activity. Psychophysiology 31 196-200.
62. **Raine, A.**, Brennan, P., and Mednick, S.A. (1994). Birth complications combined with early maternal rejection at age 1 year predispose to violent crime at age 18 years. Archives of General Psychiatry (now JAMA Psychiatry) 51 984-988 (findings also reported and discussed in Science 1994, 263 1375, Science 1994 265 171, and Science 1994 265 1159).
63. **Raine, A.**, Buchsbaum, M.S., Stanley, J., Lottenberg, S., Abel, L. and Stoddard, J. (1994). Selective reductions in pre-frontal glucose metabolism in murderers. Biological Psychiatry 36 365-373. (also reprinted in J.A. Talbott (Ed.) The Yearbook of Psychiatry and Applied Mental Health St. Louis: Mosby, 1996; also

reprinted in K.M. Beaver and A. Walsh (eds.) Biosocial theories of crime. Surrey, U.K.: Ashgate. 2010) (see also correspondence in Biological Psychiatry 1995 38 342-343).

64. **Raine, A.**, Lencz, T. and Scerbo, A. (1995). Antisocial personality: Neuroimaging, neuropsychology, neurochemistry, and psychophysiology. In John H. Ratey (Ed.). Neuropsychiatry of Behavior Disorders (pp. 50-78). Oxford: Blackwell.
65. Holt, L. E., **Raine, A.**, Pa, G., Schneider, L.S., Henderson, V.W. and Pollock, V.E. (1995). P300 topography in Alzheimer's disease. Psychophysiology 32 257-265.
66. Gruzelier, J., Burgess, A., Stygall, J., Irving, G. and **Raine, A.** (1995). Patterns of cognitive asymmetry and syndromes of schizotypal personality. Psychiatry Research 56 71-79.
67. **Raine, A.**, Lencz, T., and Benishay, D. (1995). Schizotypal personality and skin conductance orienting. In A. Raine, T. Lencz, and S.A. Mednick (Eds). Schizotypal Personality Disorder (pp. 219-249). Cambridge: Cambridge University Press.
68. Lencz, T., **Raine, A.**, Benishay, D., Mills, S. and Bird, L. (1995). Neuropsychological abnormalities associated with schizotypal personality. In A. Raine, T. Lencz, and S.A. Mednick (Eds). Schizotypal Personality Disorder (pp. 289-328). Cambridge: Cambridge University Press.
69. **Raine, A.** and Lencz, T. (1995). Conceptual and methodological issues in schizotypal personality research. In A. Raine, T. Lencz, and S.A. Mednick (Eds). Schizotypal Personality Disorder (pp. 3-18). Cambridge: Cambridge University Press.
70. Lencz, T. and **Raine, A.** (1995). Schizotypal personality: Synthesis and future directions. In A. Raine, T. Lencz, and S.A. Mednick (Eds). Schizotypal Personality Disorder (pp. 429-462). Cambridge: Cambridge University Press.
71. Scerbo, A, **Raine, A.**, Venables, P.H, and Mednick, S.A. (1995). The stability of inhibited / uninhibited temperament from ages 3 to 11 years in Mauritian children. Journal of Abnormal Child Psychology 23 607-618.
72. Margolin, G., Gordis, E.B., Oliver, P.J. and **Raine, A** (1995). A physiologically based typology of batterers: Promising but preliminary. Journal of Family Psychology 9 253-263.
73. **Raine, A.**, Venables, P.H. and Williams, M. (1995). High autonomic arousal and electrodermal orienting at age 15 years as protective factors against criminal behavior at age 29 years. American Journal of Psychiatry 152 1595-1600.

(findings also reported and discussed in Science 1995 270 1123-1125).

74. **Raine, A.** and Benishay, D. (1995). The SPQ-B: A brief screening instrument for schizotypal personality disorder. Journal of Personality Disorders 9 346-355.
75. Brekke, J., **Raine, A.** and Thomson, C. (1995). Cognitive and psychophysiological correlates of positive, negative, and disorganized symptoms in the schizophrenia spectrum. Psychiatry Research 57 241-250.
76. **Raine, A.** (1995). Psychopathy and violence: arousal, temperament, birth complications, maternal rejection, and prefrontal dysfunction. Behavioral and Brain Sciences 18 571-573.
77. **Raine, A.**, Brennan, P., Mednick, B. and Mednick, S.A. (1996). High rates of violence, crime, academic problems, and behavioral problems in males with both early neuromotor deficits and unstable family environments. Archives of General Psychiatry (now JAMA Psychiatry) 53 544-549.
78. **Raine, A.**, Venables, P.H. and Williams, M. (1996). Better autonomic conditioning and faster electrodermal half-recovery time at age 15 years as possible protective factors against crime at age 29 years. Developmental Psychology 32 624-630.
79. **Raine, A.** (1996). Autonomic nervous system factors underlying disinhibited, antisocial, and violent behavior: Biosocial perspectives and treatment implications. Annals of the New York Academy of Sciences 794 46-59.
80. **Raine, A.** and Buchsbaum, M.S. (1996). Violence and brain imaging. In D.M. Stoff and R.B. Cairns (Eds.). Neurobiological approaches to clinical aggression research (pp. 195-218). Mahwah, N.J.: Lawrence Erlbaum.
81. **Raine, A.** (1996). Autonomic nervous system activity and violence. In D.M. Stoff and R.B. Cairns (Eds.). Neurobiological approaches to clinical aggression research (pp. 145-168). Mahwah, N.J.: Lawrence Erlbaum.
82. Lencz, T., **Raine, A.**, and Sheard, C. (1996). Neuroanatomical bases of electrodermal hypo-responding: A cluster analytic study. International Journal of Psychophysiology 22 141-153.
83. **Raine, A.**, Benishay, D., Lencz, T., Scarpa, A.. (1997). Abnormal orienting in schizotypal personality disorder. Schizophrenia Bulletin 23 75-82.
84. Brekke, J., **Raine, A.**, Ansel, M., Lencz, T. and Bird, L. (1997). Neuropsychological and psychophysiological correlates of psychosocial functioning in schizophrenia Schizophrenia Bulletin 23 19-28.

85. Tan, S., **Raine, A.**, Cannon, T.D., Parnas, J., Schulsinger, F. and Mednick, S.A. (1997). Childhood behavioral precursors of schizotypal personality disorder. Schizophrenia Bulletin **23** 93-103.
86. Scarpa, A., **Raine, A.**, Venables, P.H. and Mednick, S.A. (1997). Heart rate and skin conductance in behaviorally inhibited Mauritian children. Journal of Abnormal Psychology **106** 182-190.
87. Scarpa, A. and **Raine, A.** (1997). Psychophysiology of anger and violent behavior. Psychiatric Clinics of North America **20** 375-394 (editorial invitation).
88. Brennan, P.A., **Raine, A.**, Schulsinger, F., Kirkegaard-Sorensen, L., Knop, J., Hutchings, B., Rosenberg, R., and Mednick, S.A. (1997). Psychophysiological protective factors for male subjects at high risk for criminal behavior. American Journal of Psychiatry **154** 853-855
89. **Raine, A.**, Buchsbaum, M.S., and La Casse, L. (1997). Brain abnormalities in murderers indicated by positron emission tomography. Biological Psychiatry **42** 495-508. (findings also reported and discussed in Nature (2001) **410** 297; Science (2001) **289** 574, 575, 578-579)
90. **Raine, A.**, Brennan, P.A., and Mednick, S.A. (1997). Interaction between birth complications and early maternal rejection in predisposing to adult violence: Specificity to serious, early onset violence. American Journal of Psychiatry **154** 1265-1271.
91. **Raine, A.** (1997). Psychophysiology and antisocial behavior: A biosocial perspective and a prefrontal dysfunction hypothesis. In D. Stoff, J. Breiling, and J.D. Maser (Eds). Handbook of antisocial behavior (pp. 289-304). New York: Wiley.
92. **Raine, A.**, Brennan, P., and Farrington, D.P. (1997). Biosocial bases of violence: Conceptual and theoretical issues. In Raine, A., Brennan, P.A., Farrington, D.P. and Mednick, S.A. (Eds). Biosocial bases of violence (pp. 1-20). New York: Plenum.
93. **Raine, A.**, Reynolds, C., Venables, P.H. and Mednick, S.A. (1997). Biosocial bases of aggressive behavior in childhood: Resting heart rate, skin conductance orienting, and physique. In Raine, A., Brennan, P.A., Farrington, D.P. and Mednick, S.A. (Eds). Biosocial bases of violence (pp. 107-126). New York: Plenum.
94. Stoddard, J., **Raine, A.**, Bihle, S. and Buchsbaum, M.S. (1997). Prefrontal dysfunction in murderers without psychosocial deficits. In Raine, A., Brennan, P., Farrington, D.P. and Mednick, S.A. (Eds). Biosocial bases of violence (301-304).

New York: Plenum.

95. Brennan, P., Mednick, S.A. and **Raine, A.** (1997). Biosocial interactions and violence: A focus on perinatal factors. In Raine, A., Brennan, P., Farrington, D.P. and Mednick, S.A. (Eds). Biosocial bases of violence (pp. 163-174). New York: Plenum.
96. **Raine, A.** (1997). Crime, conditioning, and arousal. In H. Nyborg (Ed). The scientific study of human nature: Tribute to Hans J. Eysenck (pp. 122-141). Oxford: Elsevier.
97. Scarpa, A.S. and **Raine, A.** (1997). Biology of wickedness. Psychiatric Annals 27 624-629 (editorial invitation).
98. **Raine, A.**, Venables, P.H. and Mednick, S.A. (1997). Low resting heart rate at age 3 years predisposes to aggression at age 11 years: Findings from the Mauritius Joint Child Health Project. Journal of the American Academy of Child and Adolescent Psychiatry 36 1457-1464 (findings also reported and discussed in Science (1997) 278 391; and Science (2000) 289 581)
99. Brennan, P.A., and **Raine, A.** (1997). Biosocial bases of antisocial behavior: Psychophysiological, neurological, and cognitive factors. Psychophysiological protective factors for males at high risk for crime. Clinical Psychology Review 17 589-604.
100. **Raine, A.**, Stoddard, J., Bihrlé, S. and Buchsbaum, M.S. (1998). Prefrontal glucose deficits in murderers lacking psychosocial deprivation Neuropsychiatry, Neuropsychology, and Behavioral Neurology 11 1-7.
101. **Raine, A.**, Reynolds, C., Venables, P.H. and Mednick, S.A., and Farrington, D.P. (1998). Fearlessness, stimulation-seeking, and large body size at age 3 years as early predispositions to childhood aggression at age 11 years. Archives of General Psychiatry (now JAMA Psychiatry) 55 745-751.
102. **Raine, A.**, Meloy, J.R., Bihrlé, S., Stoddard, J., Lacasse, L. and Buchsbaum, M.S. (1998). Reduced prefrontal and increased subcortical brain functioning assessed using positron emission tomography in predatory and affective murderers. Behavioral Sciences and the Law 16 319-332 (also reprinted in K.M. Beaver and A. Walsh (eds.) Biosocial theories of crime. Surrey, U.K.: Ashgate. 2010) (findings also reported and discussed in Nature (2001) 410 297).
103. **Raine, A.** and Liu, J.H. (1998). Biological predispositions to violence and their implications for biosocial treatment and prevention. Psychology, Crime and Law 4 107-125 (editorial invitation).

104. Liu, J.J. and **Raine, A.** (1999). Early health prevention of violence. In R. Gottesman and M. Mazon (Eds). Encyclopedia of violence in the United States New York: Charles Scribner.
105. **Raine, A.**, Bihrlle, S., Venables, P.H., Mednick, S.A., and Pollock, V. (1999). Reduced skin conductance orienting deficits and increased alcoholism in schizotypal criminals. Journal of Abnormal Psychology 108 299-306.
106. Yaralian, P. and **Raine, A.** (1999). Brain imaging. In R. Gottesman and M. Mazon (Eds). Encyclopedia of violence in the United States New York: Charles Scribner.
107. **Raine, A.** (1999). Murderous minds: Can we see the mark of Cain? Cerebrum 1 15-30.
108. Ishikawa, S. and **Raine, A.** (1999). Temperament and violence. In R. Gottesman and M. Mazon (Eds). Encyclopedia of violence in the United States (pp. 278-280). New York: Charles Scribner.
109. **Raine, A.**, Lencz, T., Bihrlle, S., Lacasse, L., and Colletti, P. (2000). Reduced prefrontal gray matter volume and reduced autonomic activity in antisocial personality disorder. Archives of General Psychiatry (now JAMA Psychiatry) 57 119-127 (Designated by ISI as the most-cited paper in Psychiatry/Psychology, Jan. 2002. Findings also discussed in editorial by A. Damasio (2000) A neural basis for sociopathy Archives of General Psychiatry (now JAMA Psychiatry) 57 128-129; findings discussed and reported in Science (2001) 289 574, 575, 579; Nature (2001) 410 297; Archives of General Psychiatry (now JAMA Psychiatry) (2001) 58 402-403; also reprinted in J.T. Cacioppo et al. (2002) (eds.) Foundations in social neuroscience (pp. 1023-1036). Cambridge: MIT Press; reprinted in G.J. Boyle and D.H. Saklofske (2003) (eds.) Psychology and individual differences. London: Sage).
110. Gatzke, L.M. and **Raine, A.** (2000). Treatment and prevention implications of Antisocial Personality Disorder. Current Psychiatry Reports 2 51-55.
111. Scarpa, A.S. and **Raine, A.** (2000). Violence associated with anger and impulsivity. In J. Borod (Ed). The neuropsychology of emotion (pp. 320-339). New York: Oxford University Press.
112. Reynolds, C.A., **Raine, A.**, Mellingen, K., Venables, P.J. and Mednick, S.A. (2000). Three factor model of schizotypal personality: Invariance across culture, gender, religious affiliation, family adversity, and psychopathology. Schizophrenia Bulletin 26 603-618.
113. Yaralian, P., **Raine, A.**, Lencz, T., Hooley, J., Bihrlle, S.E., Mills, S., and Ventura, J.

- (2000). Elevated levels of cognitive-perceptual deficits in individuals with a family history of schizophrenia spectrum disorders. Schizophrenia Research 46 57-63.
114. Yaralian, P. and **Raine, A.** (2000). Schizotypal personality and skin conductance orienting. In C. Klein (Ed). Schizotypal personality
 115. Yaralian, P. and **Raine, A.** (2001). Biological approaches to crime: Psychophysiology and brain dysfunction In R. Paternoster and R. Bachman (Eds.). Explaining criminals and crime: Essays in contemporary criminological theory (pp. 57-72). Los Angeles: Roxbury.
 116. **Raine, A.**, Venables, P.H., Dalais, Cyril, Mellingen, K., Reynolds, C., and Mednick, S.A. (2001). Early educational and health enrichment at age 3-5 years is associated with increased autonomic and central nervous system arousal and orienting at age 11 years: Evidence from the Mauritius Child Health Project. Psychophysiology 38 254-266.
 117. **Raine, A.** Park, S., Lencz, T., Bihle, S., LaCasse, L., Widom, C.S., Al-Dayeh, L., and Singh, M. (2001). Reduced right hemisphere activation in severely abused violent offenders during a working memory task: An fMRI study. Aggressive Behavior 27 111-129.
 118. Ishikawa, S.S., **Raine, A.**, Lencz, T., Bihle, S., and Lacasse, L. (2001). Autonomic stress reactivity and executive functions in successful and unsuccessful criminal psychopaths from the community. Journal of Abnormal Psychology 110 423 – 432.
 119. Luczak, S.E., **Raine, A.** and Venables, P.H. (2001). Invariance of the MAST across religions Journal of Studies on Alcohol 62 834-837.
 120. Ishikawa, S. S., **Raine, A.** Lencz, T. Bihle, S. and Lacasse, L. (2001). Increased height and bulk in antisocial personality disorder and its subtypes. Psychiatry Research 105 211-219
 121. Gatzke-Kopp, L.M., **Raine, A.**, Buchsbaum, M. and Lacasse, L. (2001). Temporal lobe EEG deficits in murderers: EEG findings undetected by PET. Journal of Neuropsychiatry and Clinical Neurosciences 13 486-491.
 122. **Raine, A.** (2002). The biological basis of crime. In J.Q. Wilson and J. Petersilia (Eds.). Crime: Public Policies For Crime Control (pp. 43-74). San Francisco: ICS Press.
 123. **Raine, A.**, Yaralian, P.S., Reynolds, C., Venables, P.H. and Mednick, S.A. (2002). Spatial but not verbal cognitive deficits at age 3 years in persistently antisocial individuals. Development and Psychopathology 14 25-44.

124. **Raine, A.** and Green, M. (2002). Schizophrenia and schizotypal personality: A tribute to Peter H. Venables. Schizophrenia Research **54** 1-5.
125. **Raine, A.**, Venables, P.H., Mednick, S.A. and Mellingen, K. (2002). Increased physiological arousal and orienting at ages 3 and 11 years in persistently schizotypal adults. Schizophrenia Research **54** 77-85 (also reprinted in G.J. Boyle and D.H. Saklofske (2003) (eds.) Psychology and individual differences. London: Sage).
126. **Raine, A.**, Reynolds, C., Venables, P.H., and Mednick, S.A. (2002). Stimulation-seeking and intelligence: A prospective longitudinal study. Journal of Personality and Social Psychology **82** 663-674. (also reprinted in G.J. Boyle and D.H. Saklofske (2003) (eds.) Psychology and individual differences. London: Sage).
127. **Raine, A.** (2002). Annotation: The role of prefrontal deficits, low autonomic arousal, and early health factors in the development of antisocial and aggressive behavior. Journal of Child Psychology and Psychiatry **43** 417-434.
128. Ishikawa, S. and **Raine, A.** (2002). Behavioral genetics and crime. In J. Glicksohn (Ed.) The neurobiology of criminal behavior. (pp. 81-110). Norwell, MA: Kluwer.
129. Ishikawa, S. and **Raine, A.** (2002). Psychophysiological correlates of antisocial behavior: A central control hypothesis. In J. Glicksohn (Ed.) The neurobiology of criminal behavior (pp. 187-230). Norwell, MA: Kluwer.
130. **Raine, A.** (2002). Biosocial studies of antisocial and violent behavior in children and adults: A review. Journal of Abnormal Child Psychology **30** 311-326.
131. Moore, T.M., Scarpa, A. and **Raine, A.** (2002). A meta-analysis of serotonin metabolite 5-HIAA and antisocial behavior. Aggressive Behavior **28** 299-316.
132. Gatzke-Kopp L., **Raine, A.**, Loeber, R., Stouthamer-Loeber, M., Steinhauer, S.R. (2002). Serious delinquent behavior, sensation seeking, and electrodermal arousal. Journal of Abnormal Child Psychology **30** 477-486.
133. Scarpa, A. and **Raine, A.** (2002). The Psychophysiology of personality disorders. In H. D'haenen, J.A. den Boer, and P. Willner (eds.). Textbook of Biological Psychiatry (pp. 1361-1369). New York: Wiley.
134. Baker, L.A., Barton, M. and **Raine, A.** (2002). The Southern California Twin Register at the University of Southern California. Twin Research **5** 456-459
135. **Raine, A.**, Lencz, T., Yaralian, P., Bihle, S., LaCasse, L., Ventura, J. and Colletti, P. (2002). Prefrontal structural and functional deficits in schizotypal personality

disorder Schizophrenia Bulletin 28 501-513.

136. Ishikawa, S.S. and **Raine, A.** (2003). Prefrontal deficits and antisocial behavior: A causal model. In B.B. Lahey, T.E. Moffitt and A. Caspi (Eds). Causes of conduct disorder and juvenile delinquency (pp. 277-304). New York: Guilford.
137. Liu, J., **Raine, A.**, Venables, P.H., Dalais, C. and Mednick, S.A. (2003). Malnutrition at age 3 years and lower cognitive ability at age 11: Independence from social adversity. Archives of Pediatric and Adolescent Medicine 157 593-600.
138. Ishikawa, S. and **Raine, A.** (2003). The neuropsychiatry of aggression. In B.S. Fogel, R.B. Schiffer, and S.M. Rao (eds.) Neuropsychiatry (2nd ed.) (pp. 660-679). Philadelphia: Lippincott Williams and Wilkins.
139. **Raine, A.**, Mellingen, K., Liu, J., Venables, P.H., and Mednick, S.A. (2003) Effects of environmental enrichment at 3-5 years on schizotypal personality and antisocial behavior at ages 17 and 23 years. American Journal of Psychiatry 160 1627-1635.
140. **Raine, A.** (2003). Malingering and criminal behavior as psychopathology. In P.W. Halligan, C. Bass, and D.A. Oakley (eds.) Malingering and illness deception (pp. 93-106). Oxford: Oxford University Press.
141. Ishikawa, S.S. and **Raine, A.** (2003). Obstetric complications and later aggressive behavior. In R.E. Tremblay, Barr, R.G. and Peters R.D. (Eds) Encyclopedia on Early Childhood Development. Quebec: Center of Excellence for Early Childhood Development.
142. Scarpa, A. and **Raine, A.** (2003). The psychophysiology of antisocial behavior: Interactions with environmental experiences. In A. Walsh & L. Ellis (Eds.) Biosocial criminology: Challenging environmentalism's supremacy. New York: Nova Science.
143. Fossati, A., **Raine, A.**, Carretta, H., Leonardi, B., and Maffei, M. (2003). The three-factor model of schizotypal personality: Invariance across age and gender. Personality and Individual Differences 35 1007-1019.
144. Vanman, E.J., Mejia, V.Y., Dawson, M.E., Schell, A.M. and **Raine, A.** (2003). Modification of the startle reflex in a community sample: Do one or two dimensions of psychopathy underlie emotional processing? Personality and Individual Differences 35 2007-2021.
145. **Raine, A.**, Lencz, T., Taylor, K., Hellige, J.B., Bihle, S., Lacasse, L., Lee, M., Ishikawa, S.S., and Colletti, P. (2003). Corpus callosum abnormalities in

- psychopathic antisocial individuals Archives of General Psychiatry (now JAMA Psychiatry) 60 1134-1142.
146. **Raine, A.**, Ishikawa, S.S., Arce, E., Lencz, T., Knuth, K.H., Bihrlé, S., Lacasse, L., and Colletti, P. (2004). Hippocampal structural asymmetry in unsuccessful psychopaths. Biological Psychiatry 55 185-191.
147. Ortiz, J. and **Raine, A.** (2004). Heart rate level and antisocial behavior in children and adolescents: A meta-analysis. Journal of the American Academy of Child and Adolescent Psychiatry 43 154-162
148. **Raine, A.** and Chi, T. (2004). Biosocial factors (Factores biosociales). In J. Sanmartín (ed.) Manual of Violence (El Laberinto de la Violencia). Barcelona: Ariel Press
149. Scarpa, A. and **Raine, A.** (2004). The psychophysiology of child misconduct Pediatric Annals 33 297-304.
150. Liu, J.H., **Raine, A.**, Venables, P.H., and Mednick, S.A. (2004). Malnutrition at age 3 years and externalizing behavior problems at ages 8, 11 and 17 years. American Journal of Psychiatry 161 2005-2013.
151. **Raine, A.**, Moffitt, T.E., Caspi, A., Loeber, R., Stouthamer-Loeber, M., and Lynam, D. (2005). Neurocognitive impairments in boys on the life-course persistent antisocial path. Journal of Abnormal Psychology 114 38-49.
152. Yang, Y., **Raine, A.**, Lencz, T., Bihrlé, S., Lacasse, L., and Colletti, P. (2005). Volume reduction in prefrontal gray matter in unsuccessful criminal psychopaths. Biological Psychiatry 57 1103-1108.
153. McBurnett, K., **Raine, A.**, Stouthamer-Loeber, M., Loeber, R., Kumar, A.M., Kumar, M. and Lahey, B.B., (2005). Mood and hormone responses to psychological challenge in adolescent males with conduct problems. Biological Psychiatry 57 1109-1116.
154. Fung, M.T., **Raine, A.**, Loeber, R., Lynam, D.R., Steinhauer, S.R., Venables, P.H., and Stouthamer-Loeber, M. (2005). Reduced electrodermal activity in psychopathy-prone adolescents Journal of Abnormal Psychology 114 187-196.
155. **Raine, A.** (2005). The interaction of biological and social measures in the explanation of antisocial and violent behavior. In D.M. Stoff and E.J. Susman (eds.). Developmental Psychobiology of Aggression (pp. 13-42). Cambridge: Cambridge University Press.
156. Lynn, R., **Raine, A.**, Venables, P.H., Mednick, S.A. and Irwing, P. (2005). Sex

- differences on the WISC-R in Mauritius. Intelligence 33 527-534.
157. Lynam, D.R., Caspi, A., Moffitt, T.E., **Raine, A.** and Loeber, R., and Stouthamer-Loeber, M. (2005). Adolescent psychopathy and the Big Five: Results from two samples Journal of Abnormal Child Psychology 33 431-443.
 158. **Raine, A.** (2005). De psychofysiologie en neurofysiologie van criminaliteit (The psychophysiology and neuropsychology of criminality). Tijdschrift voor Criminologie 47 142-152
 159. Lynn, R., **Raine, A.**, Venables, P.H. and Mednick, S.A. (2005). Sex differences in 3 year olds on the Boehm Test of Basic Concepts: Some data from Mauritius. Personality and Individual Differences 39 683-688
 160. Yang, Y. and **Raine, A.** (2005). Functional and structural brain imaging research on psychopathy. In A.R. Felthous and H. Sass (Eds.) International Handbook on Psychopathic Disorders and The Law. New York: Wiley.
 161. Loewy, R.L., Bearden, C.E., Johnson, J.K., **Raine, A.**, and Cannon, T.D. (2005). The Prodromal Questionnaire (PQ): Preliminary Validation of a Self-Report Screening Measure for Prodromal Symptoms of Psychosis. Schizophrenia Research 77 141-149
 162. Yang, Y.L., **Raine, A.**, Lencz, T., Bihle, S., Lacasse, L., and Colletti, P. (2005). Prefrontal structural abnormalities in liars. British Journal of Psychiatry 187 320-325. (Findings also discussed and reported in Science (2005) 310 14, 227, and in editorial by Spence, S.A. (2005). Prefrontal white matter - the tissue of lies? Invited commentary on. . . Prefrontal white matter in pathological liars. *British Journal of Psychiatry*, 187, 326-327.)
 163. **Raine, A.** and Yang, Y. (2006). The neuroanatomical bases of psychopathy: a review of brain imaging findings. In C. J. Patrick (ed.) Handbook of psychopathy (pp. 278-295). Guilford.
 164. Scarpa, A. and **Raine, A.** (2006). The psychophysiology of human antisocial behavior. In Randy J. Nelson (ed.). Biology of aggression. (pp 447-662). Oxford: Oxford University Press.
 165. Popma, A. and **Raine, A.** (2006). Will future forensic assessment be neurobiologic? Child and Adolescent Psychiatric Clinics of North America 15 429-444.
 166. **Raine, A.**, Dodge, K., Loeber, R., Gatzke-Kopp L., Lynam, D., Reynolds, C., Stouthamer-Loeber, M., and Liu, J. (2006). The Reactive-Proactive Aggression Questionnaire: Differential correlates of reactive and proactive aggression in

- adolescent boys. Aggressive Behavior 32 159-171.
167. **Raine, A.** (2006). Schizotypal personality: Neurodevelopmental and psychosocial trajectories. Annual Review of Clinical Psychology 2 291-326.
168. **Raine, A.** (2006). Pursuing a second generation of research on crime and schizophrenia. In Raine, A. (ed.). Crime and Schizophrenia: Causes and Cures (pp. 3-12). New York: Nova Science Publishers.
169. Liu, J., **Raine, A.**, Venables, P.H., and Mednick, S.A. (2006). Malnutrition, brain dysfunction, and antisocial criminal behavior. In Raine, A. (ed.). Crime and Schizophrenia: Causes and Cures (pp. 109-128). New York: Nova Science Publishers.
170. **Raine, A.**, Baker, L. and Liu, J. (2006). Biological risk factors for antisocial and criminal behavior. In Raine, A. (ed.) (pp. 83-108). Crime and Schizophrenia: Causes and Cures. New York: Nova Science Publishers.
171. Venables, P.H., **Raine, A.**, Dalais, C., Liu, J. and Mednick, S.A. (2006). Malnutrition, cognitive ability, and schizotypy. In Raine, A. (ed.). Crime and Schizophrenia: Causes and Cures (pp. 131-150). New York: Nova Science Publishers.
172. Cannon, T.D. and **Raine, A.** (2006). Neuroanatomical and genetic influences on schizophrenia, and crime: The schizophrenia-crime association. In Raine, A. (ed.). Crime and Schizophrenia: Causes and Cures (pp. 219-246). New York: Nova Science Publishers.
173. **Raine, A.**, Liu, J., Venables, P.H. and Mednick, S.A. (2006). Preventing crime and schizophrenia using early environmental enrichment. In Raine, A. (ed.). Crime and Schizophrenia: Causes and Cures (pp. 249-266). New York: Nova Science Publishers.
174. Venables, P.H., **Raine, A.**, Mednick, S.A., Schulsinger, F., and Dalais, C. (2006). The Mauritius Child Health Project: Its origins, procedures, ethical issues, and outcome. In Raine, A. (ed.). Crime and Schizophrenia: Causes and Cures (pp. 315-334). New York: Nova Science Publishers.
175. Andreu, J.M., Ramirez, J.M. and **Raine, A.** (2006). Un modelo dicotómico de la agresión: Valoración mediante dos auto-informes (CAMA y RPQ). [A dichotomous model of aggression: Assessment using two different questionnaires (RPQ and CAMA)]. Psicopatología Clínica, Legal y Forense [Forensic, Legal and Clinical Psychopathology] 5 25-42.
176. Popma, A., Jansen, L.M., Vermeiren, R., Steiner, H., **Raine, A.**, Van Goozen,

- S.H.M., van Engeland, H., and Doreleijers, T.A.H. (2006). Hypothalamus pituitary adrenal axis and autonomic nervous system activity during stress in delinquent adolescents and controls. Psychoneuroendocrinology **31** 948-957.
177. Baker, L.A., Bezdjian, S., and **Raine, A.** (2006). Behavioral genetics: The science of antisocial behavior Law & Contemporary Problems **69** 7-46.
 178. Liu, J. and **Raine, A.** (2006). The effect of childhood malnutrition on externalizing behavior. Current Opinion in Pediatrics **18** 565-570.
 179. **Raine, A.** and Yang, Y. (2006). Neural foundations to moral reasoning and antisocial behavior. Social, Cognitive, and Affective Neuroscience **1** 203-213.
 180. Baker, L.A., Barton, M., Lozano, D.O., **Raine, A.**, and Fowler, J.H. (2006). The Southern California Twin Register at the University of Southern California: II. Twin Research and Human Genetics **9** 933-940.
 181. Yang, Y., **Raine, A.**, Narr, K., Lencz, T., Lacasse, L., Colletti, P., and Toga, A.W. (2007). Localization of increased prefrontal white matter in pathological liars. British Journal of Psychiatry **190** 174-175.
 182. Schug, R. and **Raine, A.** (2007). Psychopathy. In D.S. Clark (ed.) Encyclopedia of Law & Society: American and global perspectives. Sage.
 183. Venables, P.H., Liu, J., **Raine, A.**, and Mednick, S.A. (2007). Prenatal influenza exposure and delivery complications: Implications for the development of schizophrenia Family and Community Health **30** 151-159.
 184. Baker, L.A., Jacobsen, K., **Raine, A.**, Lozano, D.I., and Bezdjian, S. (2007). Genetic and environmental bases of childhood antisocial behavior: A multi-informant twin study Journal of Abnormal Psychology **116** 219-235.
 185. Fossatti, A., **Raine, A.** and Maffei, C. (2007). Taxonic structure of schizotypal personality in nonclinical subjects: Issues of replicability and age consistency. Psychiatry Research **152** 103-112.
 186. Glenn, A.L., **Raine, A.**, Venables, P.H. and Mednick, S.A. (2007). Early temperamental and psychophysiological precursors of adult psychopathic personality. Journal of Abnormal Psychology **116** 508-518.
 187. Loeber, R., Pardini, D.A., Stouthamer-Loeber, M. and **Raine, A.** (2007). Do cognitive, physiological, and psycho-social risk and promotive factors predict desistance from delinquency in males? Development and Psychopathology **19** 867-887.

188. Gao, Y., **Raine, A.**, Dawson, M.E., Venables, P.H. and Mednick, S.A. (2007). Development of skin conductance orienting, habituation, and reorienting from ages 3 to 8 years: A longitudinal latent growth curve analysis. Psychophysiology **44** 855-863.
189. Schug, R.A., **Raine, A.**, and Wilcox, R.R. (2007). Psychophysiological and behavioral characteristics of individuals comorbid antisocial personality disorder and schizophrenia-spectrum personality disorder. British Journal of Psychiatry, **191**, 408-414.
190. Miczek, K.A., Almeida, Rosa M.M., Kravitz, E.A., Rissman, E.F., de Boer, Sietse F., and **Raine, A.** (2007). The neurobiology of escalated violence. Journal of Neuroscience **44** 11803-11806.
191. Scarpa, A. and **Raine, A.** (2007). Biosocial bases of violence. In D.J. Flannery, A.T. Vazsonyi, & I. Waldman (ed). The Cambridge handbook of violent behavior. (pp. 447-462). Cambridge: Cambridge University Press.
192. Yang, Y. and **Raine, A.** (2007). Brain abnormalities in antisocial, psychopathic individuals. Netherlands Journal of Psychology **63** 156-165.
193. Yang, Y., Glenn, A.L., and **Raine, A.** (2008). Brain abnormalities in antisocial individuals: Implications for the law. Behavioral Sciences and the Law **26** 65-83
194. Yang, Y. and **Raine, A.** (2008). The functional neuroanatomy of psychopathy. Psychiatry, **7**, 133-136.
195. Schug, R. and **Raine, A.** (2008). Biological factors in crime. In G.J. Towl, D.P. Farrington, S.A. Crighton, and G. Hughes (eds.). Dictionary of Forensic Psychology (pp. 14-16). Portland, Oregon: Willan Publishing.
196. Green, M.J., Boyle, G.J., and **Raine, A.** (2008). Schizotypal personality models. In G.J. Boyle, G. Matthews, and D.H. Saklofske (eds.) Personality theory and assessment (pp. 399-419). Los Angeles: Sage.
197. Lee, T.M.C., Chan, S.C., and **Raine, A.** (2008). Strong limbic and weak frontal activation to aggressive stimuli in spouse abusers. Molecular Psychiatry **13** 655-660. (findings also reported and discussed in Science **321** 1023.).
198. Glenn, A.L. and **Raine, A.** (2008). The neurobiology of psychopathy. Psychiatric Clinics of North America, **31**, 463-475.
199. **Raine, A.** From genes to brain to antisocial behavior (2008). Current Directions in Psychological Science **17** 323-329.

200. Baker, L., **Raine, A.**, Liu, J. and Jacobsen, K.C. (2008). Genetic and environmental influences on reactive and proactive aggression in children. Journal of Abnormal Child Psychology 36 1265-1278
201. Glenn, A., **Raine, A.** and Schug, R. (2009). The neural correlates of moral decision-making in psychopathy. Molecular Psychiatry 14 5-6
202. Schug, R.A., Gao, Y., Glenn, A., Yang, Y., and **Raine, A.** (2009). Role of the Frontal Lobe in Violence. In Licker, M., Weil, J., Blumel, D., Malmoloi, S., Netting, J., Wagner, C. and Taylor, R. (eds). Yearbook of Science & Technology (pp. 326-328). New York: McGraw-Hill
203. Liu, J., **Raine, A.**, Wuerker, A., Venables, P., Mednick, S.A (2009). The association of birth complications and externalizing behavior in early adolescents: Direct and mediational effects. Journal of Research on Adolescence 19 93-111.
204. Gao, Y., Baker, L., **Raine, A.**, Wu, H., and Bezdjian, S. (2009). Brief report: Interaction between social class and risky decision-making in children with psychopathic tendencies. Journal of Adolescence 32 409-414.
205. Schug, R. and **Raine, A.** (2009). Comparative Meta-Analyses of Neuropsychological Functioning In Antisocial Schizophrenic Persons. Clinical Psychology Review, 29, 230-242.
206. Lee, T.M.C., Chan, S.C. and **Raine, A.** (2009). Hyper-responsivity to threat stimuli in domestic violence offenders: A functional magnetic resonance imaging study. Journal of Clinical Psychiatry 70 36-45.
207. Isen, J.D., Baker, L.A., **Raine, A.**, and Bezdjian, S. (2009). Genetic and environmental influences on the Junior Temperament and Character Inventory in a preadolescent twin sample. Behavior Genetics 39 36-47.
208. Tuvblad C., Zheng, M., **Raine, A.**, and Baker, L.B. (2009). A common genetic factor explains the covariation among ADHD, ODD and CD symptoms, in 9-10 year old twins. Journal of Abnormal Child Psychology. 37 153-167.
209. Fossati, A., **Raine, A.** Borroni S., Bizzozero, A. Volpi, E., Santalucia, I., and Maffei, C. (2009). A Cross-Cultural Study of the Psychometric Properties of the Reactive-Proactive Aggression Questionnaire among Italian Non-Clinical Adolescents. Psychological Assessment 21 131-135
210. Bezdjian, S., Baker, L.A., Lozano, D.I., and **Raine, A.** (2009). Assessing inattention and impulsivity in children during the Go/NoGo Task. British Journal of Developmental Psychology 27 365-383

211. Tonelli, H., von der Heyde, M.D., Alvarez C.E., and **Raine, A.** (2009). Portuguese version of the Schizotypal Personality Questionnaire. Revista de Psiquiatria Clinica, 36, 34-47.
212. Gao, Y., Tuvblad, C., **Raine, A.**, & Baker, L. A. (2009). Genetic and environmental influences on frontal EEG asymmetry and alpha power in 9-10 year old twins. Psychophysiology, 46, 787-796.
213. Ang, R.P. and **Raine, A.** (2009). Reliability, validity and invariance of the Narcissistic Personality Questionnaire for Children-Revised (NPQC-R). Journal of Psychopathology and Behavioral Assessment, 31, 143-151.
214. Baker, L., Tuvblad, C., Reynolds, C., Zheng, M. Lozano, D.I. and **Raine, A.** (2009). Resting heart rate and the development of antisocial behavior from age 9 to 14: Genetic and environmental influences. Development and Psychopathology, 21, 939-960.
215. Yang, Y., **Raine, A.**, Colletti, P., and Toga, A.W., and Narr, K.L. (2009). Abnormal temporal and prefrontal cortical gray matter thinning in psychopaths. Molecular Psychiatry 14 561-562.
216. Glenn, A. L. and **Raine, A.** (2009). Neural circuits underlying morality and antisocial behavior. In J. Verplaetse, J.D. Schrijver, S. Vanneste and J. Braeckman (eds.). The moral brain. (pp. 45-67). New York: Springer.
217. Fung, A., **Raine, A.**, and Gao, Y. (2009). Cross-Cultural Generalizability of the Reactive-Proactive Aggression Questionnaire (RPQ). Journal of Personality Assessment. 91 473-479.
218. Yang, Y., **Raine, A.**, Narr, K.L., Colletti, P. and Toga, A. (2009). Localization of deformations within the amygdala in individuals with psychopathy. Archives of General Psychiatry (now JAMA Psychiatry) 66 986-994.
219. Cima, M. and **Raine, A.** (2009). Distinct characteristics of psychopathy relate to different subtypes of aggression Personality and Individual Differences 47 835-840.
220. Glenn, A.L. and **Raine, A.** (2009). Psychopathy and Instrumental Aggression: Evolutionary, Neurobiological, and Legal Perspectives. International Journal of Law and Psychiatry, 32, 253-258
221. Glenn, A.L., **Raine, A.**, Schug, R.A., Young, L. and Hauser, M. (2009). Increased DLPFC activity during moral decision-making in psychopathy. Molecular Psychiatry, 14, 909-911.

222. Yang, Y. and **Raine, A.** (2009). Prefrontal structural and functional brain imaging findings in antisocial, violent, and psychopathic individuals: A meta-analysis. Psychiatry Research: Neuroimaging 174 81-88.
223. Gao, Y. and **Raine, A.** (2009). P3 Event-Related Potential Impairments in Antisocial and Psychopathic Individuals: A Meta-Analysis. Biological Psychology 82 199-210.
224. Gao, Y., Glenn, A., Schug, R., Yang, Y. and **Raine, A.** (2009). The neurobiology of psychopathy: A neurodevelopmental perspective. Canadian Journal of Psychiatry 54 813-823.
225. Lynam, D.R., Charnigo, C., Caspi, A., Moffitt, T.E., **Raine, A.**, Loeber, R. and Stouthamer-Loeber, M. (2009). The stability of psychopathy across adolescence. Development and Psychopathology 21 1133-1153
226. Tuvblad, C., **Raine, A.**, Mo, Z. and Baker, A. (2009). Genetic and environmental stability differs in reactive and proactive aggression. Aggressive Behavior 35 437-452.
227. Yang, Y., Gao, Y., Glenn, A., Peskin, M., Schug, R.A., & **Raine, A.** (2009): Biosocial Bases of Antisocial Behavior. In Delisi, M & Beaver K. (Eds.) The Life-Course of Antisocial Behavior: Aggression to Delinquency to Crime. Jones & Bartlett Learning, Burlington, MA.
228. Glenn, A.L., **Raine, A.**, Yaralian, P.S. and Yang, Y. (2010). Increased volume of the striatum in psychopathic individuals. Biological Psychiatry 67 52-58.
229. Gao, Y., **Raine, A.**, Venables, P.H., Dawson, M.E. and Mednick, S.A. (2010). The development of electrodermal fear conditioning in children from ages 3 to 8 years. Developmental Science 13 201-212.
230. Fite, P.J., **Raine, A.** Stouthamer-Loeber, M., Loeber, R., and Pardini, D.A. (2010). Reactive and Proactive Aggression in Adolescent Males: Examining Differential Outcomes 10-Years Later in Early Adulthood. Criminal Justice and Behavior 37 141-157.
231. Gao, Y., **Raine, A.**, Venables, P.H., Dawson, M.E. and Mednick, S.A. (2010). Association of poor childhood fear conditioning and adult crime. American Journal of Psychiatry 167 156-160.
232. Isen, J., **Raine, A.**, Baker, L.A., Dawson, M., Bezdjian, S., & Lozano, D.I. (2010). Sex-specific association between psychopathic traits and electrodermal reactivity in children. Journal of Abnormal Psychology 119 216-225.

233. Fung, A., Gao, Y. and **Raine, A.** (2010). The utility of the child and adolescent psychopathy construct in Hong Kong, China. Journal of Clinical Child and Adolescent Psychology **39** 134-140.
234. Gao, Y., **Raine, A.**, Venables, P. H., Dawson, M. E., & Mednick, S. A. (2010). Reduced electrodermal fear conditioning from ages 3 to 8 years is associated with aggressive behavior at age 8 years. Journal of Child Psychology and Psychiatry **51** 550-558.
235. Gao, Y. and **Raine, A.** (2010). Successful and unsuccessful psychopaths: A neurobiological model. Behavioral Sciences and the Law **28** 194-210.
236. Chan, S.C., **Raine, A.**, and Lee, T.M.C. (2010). Attentional bias towards negative affect stimuli and reactive aggression in male batterers. Psychiatry Research **176** 246-249.
237. Yang, Y. **Raine, A.**, Han, C.B., Schug, R.A., Toga, A.W. and Narr, K.L. (2010). Reduced Hippocampal and parahippocampal volumes in murderers with schizophrenia. Psychiatry Research: Neuroimaging **182** 9-13
238. Schug, R. A., Gao, Y., Glenn, A. L., Peskin, M., Yang, Y., & **Raine, A.** (2010). The developmental evidence base: Neurobiological research and forensic applications. In G. J. Towl & D. A. Crighton (Eds.), Forensic psychology (pp. 73-94). West Sussex, UK: BPS Blackwell.
239. Gao, Y., **Raine, A.**, Chan, F., Venables P.H. & Mednick, S.A. (2010). Early maternal and paternal bonding, childhood physical abuse, and adult psychopathic personality. Psychological Medicine **40** 1007-1016.
240. Glenn, A.L., Yang, Y., **Raine, A.** & Colletti, P. (2010). No volumetric differences in the anterior cingulate of psychopathic individuals. Psychiatry Research – Neuroimaging **183** 140-143.
241. Tuvblad C., Isen, J., Baker, L.A., **Raine, A.**, Lozano, D.I., and Jacobson, K.C. (2010). The genetic and environmental etiology of sympathetic and parasympathetic activity in children. Behavioral Genetics **40** 452-466
242. **Raine, A.**, Lee, L., Yang, Y. and Colletti, P. (2010). Neurodevelopmental marker for limbic maldevelopment in antisocial personality disorder and psychopathy. British Journal of Psychiatry **197** 186-192
243. Tuvblad, C., Baker, L.A. and **Raine, A.** (2010). XYY syndrome and aggressive behavior. In F.T. Cullen and P. Wilcox (eds.). Encyclopedia of Criminological Theory. (pp. 1035-1038). Thousand Oaks: Sage.

244. Lee T.M.C., Lee, T.M.Y., **Raine, A.**, Chan, C.C.H. (2010). Lying about the valence of affective pictures: An fMRI study. PloS ONE, 5, e12291, doi:10.1371/journal.pone.0012291.
245. Yang, Y., **Raine, A.**, Colletti, P. (2010). Morphological Alterations in the Prefrontal Cortex and the Amygdala in Unsuccessful Psychopaths. Journal of Abnormal Psychology 119 546-554.
246. Schug, R., Yang, Y., **Raine, A.**, Han, C., & Liu, J. (2010). Structural and psychosocial correlates of birth order anomalies in schizophrenia and homicide. Journal of Nervous and Mental Disease 198 870-875.
247. **Raine, A.**, Liu, J., Venables, P.H., Mednick, S.A. and Dalais, C. (2010). Cohort profile: The Mauritius Child Health Project. International Journal of Epidemiology 39 1441-1451.
248. Gao, Y. and **Raine, A.** (2010). Psychophysiology and crime. In F. Cullen and P. Wilcox (eds.). The Encyclopedia of Criminological Theory (pp. 740-747). Thousand Oaks, CA: Sage Publications.
249. Schug, R. and **Raine, A.** (2010). Crime and schizophrenia. In F. T. Cullen and P. Wilcox (eds.). The Encyclopedia of Criminological Theory. Thousand Oaks, CA: Sage Publications.
250. Yang, A. and **Raine, A.** (2010). Brain abnormalities and crime. In F. Cullen and P. Wilcox, and K. Schwartz (eds.). The Encyclopedia of Criminological Theory (pp. 105-110). Thousand Oaks, CA: Sage Publications.
251. Yang, A. and **Raine, A.** (2010). Neurology and crime. In F. Cullen and P. Wilcox (eds.). The Encyclopedia of Criminological Theory (pp. 661-664). Thousand Oaks, CA: Sage Publications.
252. Peskin, M. and **Raine, A.** (2010). Prenatal influences on crime. In F. Cullen and Pamela Wilcox (eds.). The Encyclopedia of Criminological Theory. (pp. 732-737). Sage Publications.
253. Chung, J.Y., and **Raine, A.** (2010). Crime and nutrition. In F. Cullen and Pamela Wilcox (eds.). The Encyclopedia of Criminological Theory. (pp. 667-670). Thousand Oaks, CA: Sage Publications.
254. Baker, L.A., Tuvblad, C. and **Raine, A.** (2010). Genetics and crime. In Eugene McLaughlin and Tim Newburn (Eds.), Handbook of Criminological Theory, pp 21-39. ISBN: 978-1-4129-2038-4. London: Sage Publications.

255. Tharp, A.L.T., Sharp, C., Stanford, M., Lake, S.L., **Raine, A.** and Kent, T.A. (2011) Correspondence of Aggressive Behavior Classifications among Young Adults using the Impulsive Premeditated Aggression Scale and the Reactive Proactive Questionnaire. Personality and Individual Differences **50** 279-285.
256. Moffitt, T.E., Ross, S. and **Raine, A.** (2011). Crime and biology. In J.Q. Wilson and J. Petersilia (Eds.). Crime and Public Policy (2nd edition) (pp. 53-87). Oxford: Oxford University Press.
257. **Raine, A.**, Yang, Y., Narr, K., and Toga, A. (2011). Sex differences in orbitofrontal gray as a partial explanation for sex differences in antisocial personality. Molecular Psychiatry **16** 227-226.
258. Chan, R. C. K., Li, X., Lai, M., Li, H., Wang, Y., Cui, J., Deng, Y., & **Raine, A.** (2011). Exploratory study on the base-rate of paranoid ideation in a non-clinical Chinese sample. Psychiatry Research, **185**, 254-260.
259. Yang, Y., **Raine, A.**, Toga, A.W. and Narr, K.L. (2011). Abnormal structural correlates of response perseveration in individuals with psychopathy, Journal of Neuropsychiatry and Clinical Neurosciences **23** 107-110.
260. Bezdjian, S., **Raine, A.**, Baker, L.A. and Lynam, D.R. (2011). Psychopathic personality in children: Genetic and environmental contributions. Psychological Medicine **41** 589-600.
261. **Raine, A.** (2011). An amygdala structural abnormality common to two sub-types of conduct disorder: A neurodevelopmental conundrum. American Journal of Psychiatry. **168** 569-571.
262. Glenn, A.L., **Raine, A.**, Schug, R.A., Gao, Y., and Granger, D.A. (2011). Increased testosterone to cortisol ratio in psychopathy. Journal of Abnormal Psychology, **120**, 389-399.
263. Bezdjian, S., Tuvblad, C., **Raine, A.**, and Baker, L.A. (2011). The genetic and environmental covariation among psychopathic personality traits and reactive and proactive aggression in childhood. Child Development **82** 1267-1281.
264. Ericson, M., Tuvblad, C., **Raine, A.**, Wolff, K.Y., Baker, L. (2011). Heritability and longitudinal stability of schizotypal traits during adolescence. Behavioral Genetics **41** 499-511.
265. Glenn, A., Kurzban, R. and **Raine, A.** (2011). Evolutionary theory and psychopathy. Aggression and Violent Behavior **16** 371-380.
266. Gao, Y., Glenn, A. L., Peskin, M., Rudo-Hutt, A., Schug, R. A., Yang, Y., & **Raine,**

- A.** (2011). Neurocriminological approaches. In D. Gadd, S. Karstedt, and S. Messner (Eds.), Sage handbook of criminological research methods. London: Sage.
267. Gao, Y., **Raine, A.**, and Schug, R.A. (2011). P3 event-related potentials and childhood maltreatment in successful and unsuccessful psychopaths. Brain and Cognition **77** 176-182.
268. Schug, R., Yang, Y., **Raine, A.**, Han, C., Liu, J.H., and Li, L. (2011). Resting EEG deficits in accused murderers with schizophrenia. Psychiatry Research: Neuroimaging **194** 85-94
269. Yeh, M.T., Chen, P., **Raine, A.**, Baker, L.C., and Jacobson, K.C. (2011). Child psychopathic traits moderate relationships between parental affect and child aggression. Journal of the American Academy of Child and Adolescent Psychiatry **50** 1054-1064.
270. Rudo-Hutt, A., Gao, Y., Glenn, A., Peskin, M., Yang, Y., and **Raine, A.** (2011). Biosocial interactions and correlates of crime. In K. M. Beaver and A. Walsh (eds.). The Ashgate Research Companion to Biosocial Theories of Crime (pp. 17-44). Surrey, UK: Ashgate Press.
271. Peskin, M., **Raine, A.**, Gao, Y., Venables, P.H. and Mednick, S.A. (2011). A Developmental Increase in Allostatic Load from Ages 3 to 11 Years is Associated with Increased Schizotypal Personality at Age 23 Years. Development and Psychopathology **23** 1059-1068.
272. **Raine, A.**, Fung, A.L., and Lam, B.Y.H. (2011). Peer victimization partially mediates the schizotypy – aggression relationship in children and adolescents. Schizophrenia Bulletin. **37** 937-945.
273. Focquaert, F., & **Raine, A.** (2011). Antisocial Personality Disorders. In W. Chambliss (Ed.). Key issues in crime and punishment (pp. 13-28). Thousand Oaks, CA.
274. Glenn, A.L., **Raine, A.**, and Laufer, W. (2011). Is it wrong to criminalize and punish psychopaths? Emotion Review **3** 302-304. (reprinted in F. Adler, G.O.W. Mueller, and W.S. Laufer (eds) Criminology. McGraw-Hill, New York)
275. Liu, J. and **Raine, A.** (2011). Malnutrition and externalizing behavior. In D. Benton (ed.). Lifetime nutritional influences on cognition, behaviour and psychiatric illness. (pp. 301-322). Cambridge: Woodhead Publishing.
276. Glenn, A.L. and **Raine, A.** (2011). Antisocial personality disorders. In J. Decety and L. Cacioppo (Eds.) Handbook of Social Neuroscience. *The Oxford Handbook*

- of Social Neuroscience* (pp. 885-894). New York: Oxford University Press.
277. Nordstrom, B.R., Gao, Y., Glenn, A.L., Peskin, M., Rudo-Hutt, A.S., Schug, R.A., Yang, Y., and **Raine, A.** (2011). Neurocriminology. In R. Huber, D.L. Bannash, and P. Brennan (Eds.) Advances in Genetics (Volume 75) (pp. 255-284). New York: Elsevier.
 278. Focquaert, F. and **Raine, A.** (2011). Antisocial personality disorders. In W. Chambliss (Ed.) Key issues in crime and punishment (pp. 13-28). Los Angeles: Sage.
 279. Baker, L., Tuvblad, C., Bezdjian, S., and **Raine, A.** (2012). Genetics and crime. In J. I. Nurnberger and W. H. Berrettini (eds.) Principals of Psychiatric Genetics (pp. 145-159). Cambridge: Cambridge University Press.
 280. Focquaert, F., & **Raine, A.** (2012). Ethics of community-based sanctions. In S. Barton-Bellessa (Gen. Ed.), Encyclopaedia of community corrections (pp. 144-148). Thousand Oaks: SAGE Reference Publications.
 281. Tuvblad, C., Gao, Y., Isen, J., Botwick, T., **Raine, A.**, and Baker, L.A. (2012). The Heritability of the Skin Conductance Orienting Response: A Longitudinal Twin Study. Biological Psychology **89** 47-53.
 282. Gao, Y., **Raine, A.**, and Schug, R.A. (2012). Somatic aphasia: Mismatch of body sensations with autonomic stress reactivity in psychopathy. Biological Psychology **90** 228-233.
 283. **Raine, A.** and Portnoy, J. (2012). Low resting heart rate as a biomarker for antisocial behavior. In R. Loeber and B. C. Welsh (eds.) The Future of Criminology. (pp. 30-39). Oxford: Oxford University Press
 284. Rocque, M., Welsh, B.S. and **Raine, A.** (2012). Biosocial criminology and modern crime prevention. Journal of Criminal Justice **40** 306-312
 285. Fung, A. L. and **Raine, A.** (2012). Peer victimization as a risk factor for schizotypal personality in childhood and adolescence. Journal of Personality Disorders **26** 428-434.
 286. Niv, S., Tuvblad, C., **Raine, A.**, and Baker, A. (2012). Heritability and longitudinal stability of impulsivity in adolescence. Behavioral Genetics **42** 378-392.
 287. Wang, P., Baker, L.A., Gao, Y., **Raine, A.**, Lozano, D.I. (2012). Psychopathic traits and physiological responses to aversive stimuli in children aged 9-11 years. Journal of Abnormal Child Psychology **40** 759-769

288. Liu, J., Portnoy, J. and **Raine, A.** (2012). Association between a marker for prenatal testosterone exposure and externalizing behavior problems in children. Development and Psychopathology **24** 771-782.
289. Venables, P.H. and **Raine, A.** (2012). Poor nutrition at age 3 and schizotypal personality at age 23: The mediating role of age 11 cognitive functioning. American Journal of Psychiatry **169** 822-830.
290. Yang, Y., Joshi, A.A., Joshi, S.H., Baker, L.A., Narr K.L., **Raine, A.**, Thompson, P.M., Leahy, T., & Damasio, H. (2012). Genetic and environmental influences on cortical thickness variation among 14-year-old twins. Neuroreport **23** 702-706.
291. **Raine, A.**, Laufer, W. S., Yang, Y., Narr, K. L., Thompson, P. and Toga, A.W. (2012). Increased executive functioning, attention, and cortical thickness in white-collar criminals. Human Brain Mapping. **33**, 2932-2940.
292. Yang, Y., **Raine, A.**, Joshi, A.A., Joshi, S., Chang, Y.T., Schug, R.A., and Narr, K.L. (2012). Frontal information flow and connectivity in psychopathy. British Journal of Psychiatry **201**, 408-409.
293. Peskin, M, Glenn, A.L., Gao, Y., Liu, J., Schug, R., Yang, Y. and **Raine, A.** (2012). Personal characteristics of delinquents: Neurobiology, genetic predispositions, individual psychosocial attributes. In B.C Feld and D.M. Bishop (eds.) Oxford Handbook on Juvenile Crime and Juvenile Justice. (pp. 73-106). Oxford: Oxford University Press.
294. Glenn, A., Yang, Y. and **Raine, A.** (2012). Neuroimaging in psychopathy and antisocial disorders: Functional Significance and a Neurodevelopmental Hypothesis. In J.R. Simpson (ed.) Neuroimaging in Forensic Psychiatry. (pp. 81-98). Wiley-Blackwell.
295. Focquaert, F., and **Raine, A.** (2012). Ethics of community-based sanctions. In S. Barton-Bellessa (Ed.) Encyclopedia of community corrections (pp. 144-148). Sage Reference Publications.
296. Portnoy, J., Gao, Y., Glenn, A.L., Niv, S., Peskin, M., Rudo-Hutt, A., Schug, R.A., Yang, Y, and **Raine, A.**. (2013). The biology of childhood crime and antisocial behavior. In C.L. Gibson and M.D. Krohn (eds.) Handbook of Life-Course Criminology. (pp. 21-42). New York: Springer Verlag.
297. Gao, Y., **Raine, A.**, Venables, P.H., Mednick, S.A. (2013). The association between P3 amplitude at age 11 and criminal offending at age 23. Journal of Clinical Child and Adolescent Psychology **43** 120-130.
298. Peskin, M., Gao, Y., Glenn, A. L., Rudo-Hutt, A. Yang, Y., & **Raine, A.** (2013).

Biology and crime. In F. T. Cullen & P. Wilcox (Eds.), Oxford Handbook of Criminological Theory. (pp. 22-39). Oxford: Oxford University Press.

299. Baker, L. A. Tuvblad, C., Wang, P., Gomez, K., Bezdjian, S., Niv, S. and **Raine, A.** (2013). The Southern California Twin Register at the University of Southern California: III. Twin Research and Human Genetics 16, 336-343.
300. Liu, J., Tuvblad, C., **Raine, A.**, and Baker, L.A. (2013). Genetic and environmental influences on nutrient intake. Genes and Nutrition 8 241-252
301. Cima, M., **Raine, A.**, Meesters, C. and Popma, A. (2013). Validation of the Dutch Reactive Proactive Questionnaire (RPQ): Differential correlates of reactive and proactive aggression from childhood to adulthood. Aggressive Behavior 39 99-113.
302. Tuvblad, C., Gao, Y., Pan, W., **Raine, A.**, Botwick, T., and Baker, L. (2013). The genetic and environmental etiology of decision-making: A longitudinal twin study. Journal of Adolescence 36 245-255.
303. Platje, E., Jansen, L.M.C., Lucres M.C., **Raine, A.**, Branje, S.J.T., Doreleijers, T.A.H., de Vries-Bouw, M., Popma, A., van Lier, P.A.C., Koot, H.M., Meeus, W.H.J., Vermeiren, R.J.M. (2013). Longitudinal associations in adolescence between cortisol and persistent aggressive or rule-breaking behavior. Biological Psychology 93 132-137.
304. Lee, T.M.C., Leung, M.K., Lee, T.M.Y., Sun, S., **Raine, A.**, and Chan, C.C.H. (2013). I want to lie about not knowing you, but my precuneus refuses to cooperate. Scientific Reports, 3, 1636 DOI: 10.1038/srep01636.
305. Richmond, T.S., Cheney, R., Soyfer, L., Kimmel, R., and **Raine, A.** (2013). Recruitment of Community-residing Youth into Studies on Aggression. Journal of Community Psychology 41 425-434.
306. Liu, J.H., Tuvblad, C., Li, L.D., **Raine, A.**, and Baker, L.A. (2013). Medical Record Validation of Maternal Recall of Pregnancy and Birth Events From a Twin Cohort. Twin Research and Human Genetics, 16, 845-860.
307. Tuvblad, C., Bezdjian, S., **Raine, A.**, and Baker, L.A. (2013). Psychopathic personality and negative parent-to-child affect: A longitudinal cross-lag twin study. Journal of Criminal Justice 41 331-341.
308. Portnoy, J., Chen, F. and **Raine, A.** (2013). Biological protective factors for antisocial and criminal behavior. Journal of Criminal Justice 41 292-299.
309. Niv, S., Tuvblad, C., **Raine, A.**, and Baker, L.A. (2013). Aggression and rule-

- breaking: Heritability and stability of antisocial behavior problems in childhood and adolescence. Journal of Criminal Justice **41** 285-291.
310. Wang, P., Niv, S., Tuvblad, C., **Raine, A.**, and Baker, L.A. (2013). The genetic and environmental overlap between aggressive and non-aggressive antisocial behavior in children and adolescents using the self-report delinquency interview (SR-DI). Journal of Criminal Justice **41** 285-291.
 311. Liu, J., Richmond, T.S., **Raine, A.**, Cheney, R., Brodtkin, E.S., Gur, R.C, and Gur, R.E. (2013). The Healthy Brains and Behavior Study: Objectives, design, recruitment, and population coverage. International Journal of Methods in Psychiatric Research **22** 204-216
 312. Glenn, A.L., Laufer, W.S. and **Raine, A.** (2013). Author Reply: Vitacco, Erickson, and Lishner: Holding Psychopaths Morally and Criminally Culpable. Emotion Review **5** 426-427
 313. Yarnell, L.M., Sargeant, M.N., Prescott, C.A., Tilley, J.L., Farver, J.A., Mednick, S.A., Venables, P.H., **Raine, A.**, and Luczak, S.E. (2013). Measurement Invariance of an Internalizing and Externalizing behavioral syndrome factors in a non-Western sample. Assessment **20** 642-655.
 314. Nordstrom, B.R., Gao, Y., Glenn, A.L., Peskin, M., Rudo-Hutt, A.S., Schug, R.A., Yang, Y., **Raine, A.** (2013). Perspectives on Neurocriminology. In J.B. Helfgott, (ed.) Criminal Psychology: Volume 1 Theory and Research. (pp. 117-162). Westport, CT: Praeger.
 315. Rocque, M., **Raine, A.**, and Welsh, B.C. (2013). Experimental Neurocriminology: Etiology and Treatment. In B.C. Welsh, A. A. Braga, and G. J .N. Bruinsma (eds.). Experimental Criminology: Prospects for Advancing Science and Public Policy (pp. 43-64). New York: Cambridge University Press.
 316. Platje, E., Vermeiren, R.R.J.M., **Raine, A.**, Doreleijers, T.A.H., Keijsers, L., Popma, A., van Lier, P.A.C., Koot, H.M., Meeus, W., Branje, S., and Jansen, L.M.C. (2013). A longitudinal biosocial study of cortisol and peer influence on the development of adolescent antisocial behavior. Psychoneuroendocrinology **38** 2770-2779.
 317. Johnson, A.K., Glenn, A.L. and **Raine, A.** (2013). Antisocial Personality Disorder: A review. Current Psychiatric Reports **15** DOI: 10.1007/s11920-013-0427-7
 318. Focquaert, F., Glenn, A.L. & **Raine, A.** (2013). Free will, responsibility, and the punishment of criminals. In: T. Nadelhoffer (Ed.). The Future of Punishment and Retribution. (pp. 247-274). Oxford University Press.

319. Fite, P.J., Rubens, S.L., Preddy, T.M, **Raine, A.**, Pardini, D.A. (2014). Reactive/Proactive Aggression and the Development of Internalizing Problems in Males: The Moderating Effect of Parent and Peer Relationships. Aggressive Behavior **40** 69-78
320. Glenn, A.L. and **Raine, A.** (2014) Neurocriminology: Implications for the punishment, prediction and prevention of criminal behavior. Nature Reviews Neuroscience **15** 54-63.
321. Luczak, S.E., Prescott, C.A., Dalais, C., **Raine, A.**, Venables, P.H., and Mednick, S.A. (2014). Religious Factors Associated with Alcohol Involvement: Results from the Mauritian Joint Child Health Project. Drug and Alcohol Dependence **135** 37-44.
322. Pardini, D., **Raine, A.**, Erickson, K. and Loeber, R. (2014). Lower amygdala volume is associated with childhood aggression, early psychopathic features and future violence. Biological Psychiatry **75** 73-80.
323. Xu, Y., **Raine A.**, Yu, L., and Krieg, A. (2014). Resting heart rate, vagal tone, and reactive and proactive aggression in Chinese children. Journal of Abnormal Child Psychology **42** 501-514.
324. Lam, B.Y.H., **Raine, A.**, and Lee, T.M.C. (2014). The relation between neurocognition and symptomatology in people with schizophrenia: Social cognition as the mediator. BMC Psychiatry **14** 138
<http://www.biomedcentral.com/1471-244X/14/138>
325. Portnoy, J., Chen, F., Gao, Y., Glenn, A.L., Niv, S., Peskin, M., Rudo-Hutt, A., Schug, R.A. Yang, Y., and **Raine, A.** (2014) Biological perspectives on sex differences in crime and antisocial behavior. In R. Gartner and B. McCarthy and(eds.). Oxford Handbook on Gender, Sex and Crime. (pp. 260-285). Oxford: Oxford University Press.
326. Portnoy, J., **Raine, A.**, Chen, F.R., Pardini, D., Loeber, R. and Jennings, R. (2014). Heart rate and antisocial behavior: The mediating role of impulsive sensation seeking. Criminology **52** 292-311
327. **Raine, A**, Fung, A., Portnoy, J., Choy, O., and Spring, V.L. (2014). Low heart rate as a risk factor for adolescent proactive aggression and impulsive psychopathic behavior in children. Aggressive Behavior **40** 290-299.
328. Tuvblad, C., Bezdjian, S., **Raine, A.**, and Baker, L.A. (2014). The Heritability of Psychopathic Personality in 14 to 16 year Old Twins: A Multi-Rater, Multi-Measure Approach. Psychological Assessment **26** 704-716.

329. Cornet, L.J.M., De Kogel, C.H., Catharina, H., Nijman, H., **Raine, A.**, and Van der Laan, P.H. (2014). Neurobiological Factors as Predictors of Cognitive-Behavioral Therapy Outcome in Individuals with Antisocial Behavior: A Review of the Literature. International Journal of Offender Therapy and Comparative Criminology 58 1279-1296.
330. Bezdjian, S., Tuvblad, C., Wang, P., **Raine, A.**, and Baker, L.A. (2014). Motor impulsivity during childhood and adolescence: A longitudinal biometric analysis of the Go/NoGo task in twins aged 9-18 year old twins. Developmental Psychology 11 2549-2557
331. Portnoy, J. and **Raine, A.** (2014). Biological contributions to criminological research. Monatsschrift für Kriminologie und Strafrechtsreform (Journal of Criminology and Penal Reform) 97, 473-484.
332. Rocque, M., Welsh, B.C., & **Raine, A.** (2015). Policy implications of biosocial criminology: Crime prevention and offender rehabilitation. In K. Beaver, & J.C. Barnes, and B.B. Boutwell (Eds.), The Nature versus nurture debate in criminology: On the origins of criminal behavior and criminality (pp. 431-445) Thousand Oaks, CA: Sage.
333. Chen, F.R., **Raine, A.** and Granger, D.A. (2015). Tactics for Modeling Multiple Salivary Analyte Data in Relation to Behavior Problems: Additive, Ratio, and Interaction Effects. Psychoneuroendocrinology 51 188-200
334. Chen, F.R., **Raine, A.** and Granger, D. A. (2015). Interaction of Adrenocortical Activity and Autonomic Arousal on Children's Externalizing and Internalizing Behavior Problems. Journal of Abnormal Child Psychology 43 189-202
335. Glenn, A, Focquaert, F., and **Raine, A.** (2015). The neuroethics of biological research on antisocial behavior in children. In N. Levy and J. Clausen (eds). The Springer Handbook of Neuroethics (pp. 1689-1701). Springer.
336. Chen, F.R., **Raine, A.**, Rudo-Hutt, A.S., Andrea L. Glenn, A.L., Soyfer, L., and Granger, D.A. (2015). Harsh Discipline and Behavior Problems: The moderating effects of salivary cortisol and alpha-amylase. Biological Psychology 104 19-27.
337. Gao Y., Tuvblad, C., Schell, A., Baker, L., and **Raine, A.** (2015). Skin Conductance Fear Conditioning Impairments and Aggression: A Longitudinal Study. Psychophysiology 52 288-295.
338. Cornet, L.J.M., de Kogel, C.H., Nijman, H.L.I., **Raine, A.**, and van der Laan, P.H. (2015). Neurobiological Changes after Intervention in Individuals with Antisocial Behaviour: A Literature Review. Criminal Behavior and Mental Health 25 10-27.

339. Niv, S., Ashrafulla, S., Tuvblad, C., Joshi, A., **Raine, A.**, Leahy, R., and Baker L.A. (2015). Childhood EEG Frontal Alpha Power as a Predictor of Adolescent Antisocial Behavior: A Twin Heritability Study. Biological Psychology **105** 72-76.
340. Liu, J.C.J., **Raine, A.**, Ang, R., and Fung, D.S.S. (2015). An Analysis of Blinding Success in a Randomized Controlled Trial of Fish Oil Omega-3 Fatty Acids. Annals Academy of Medicine Singapore **44** 85-91.
341. Yang, Y., Narr, K.L., Baker, L.A., Joshi, S., Shantanu, H., Jahanshad, N., **Raine, A.**, & Thompson, P.M. (2015). Frontal and Striatal Alterations Associated with Psychopathic Traits in Adolescents. Psychiatry Research **231** 330-340.
342. Young-Wolff, K.C., Wang, P., Tuvblad, C., Baker, L.A., **Raine, A.**, Prescott, C.A. (2015). Drinking experience uncovers genetic influences on alcohol expectancies across adolescence. Addiction **110** 610-618
343. Glenn, A.L., Focquaert, F., and **Raine, A.** (2015). Prediction of Antisocial Behavior. In J. Clausen and N. Levy (Eds). Handbook of Neuroethics (pp. 1689-1701). New York: Springer.
344. Glenn, A.L., Remmel, R.J., **Raine, A.**, Schug, R.A., Gao, Y., and Granger, D.A. (2015). Alpha-Amylase Reactivity in Relation to Psychopathic Traits in Adults. Psychoneuroendocrinology **54** 14-23.
345. Choy, O., **Raine, A.**, Portnoy, J., Rudo-Hutt, A., Gao, Y., and Soyfer, L. (2015). The Mediating Role of Heart Rate on the Social Adversity-Antisocial Behavior Relationship: A Social Neurocriminology Perspective. Journal of Research in Crime and Delinquency **52** 303-341.
346. **Raine, A.**, Portnoy, J., Liu, J., Mahoomed, T., and Hibbeln, J. (2015). Reduction in behavior problems with omega-3 supplementation in children aged 8-16 years: A randomized, double-blind, placebo-controlled, stratified, parallel-group trial. Journal of Child Psychology and Psychiatry **56** 509-520
347. Choy, O., Farrington, D., and **Raine, A.** (2015). The Need to Incorporate Autonomic Arousal in Developmental and Life-Course Criminological Research and Theories. Journal of Developmental and Life-Course Criminology **1** 189-207.
348. Focquaert, F., Glenn, A.L., & **Raine, A.** (2015). Psychopathy and free will from a philosophical and neuroscience perspective. In Glannon, W. (Ed.) Free will and the brain: Neuroscientific, philosophical and legal perspectives. (pp.103-124). Cambridge: Cambridge University Press.
349. Yang, Y. Wang, P., Baker, L.A., Narr, K.L., Joshi, S.H., Hafzalla, G., **Raine, A.**, and Thompson, P.M. (2015) Thicker Temporal Cortex Associates with a

350. Luczak, S.E., Yarnell, L.M., Prescott, C.A., **Raine, A.**, Venables, P.H., and Mednick, S.A. (2015). Childhood Cognitive Measures as Predictors of Alcohol Use and Problems by Mid-Adulthood in a Non-Western Cohort. Psychology of Addictive Behaviors 29 365-370.
351. Schug, R.A., **Raine, A.**, Gao, Y., Glenn, A., and Yang, A. (2015). Neurocriminology: Applications for forensic psychiatry. In R. Sadoff (ed.). The Evolution of Forensic Psychiatry: Historical Review, Current Issues, Future Directions. Oxford University Press.
352. Rudo-Hutt, A. S., Portnoy J., Chen, F. R., & **Raine A.** (2015). Biosocial criminology as a paradigm shift. In M. DeLisi & M. G. Vaughn (Eds.), Handbook of Biosocial Criminology (pp. 22-31). Abingdon, UK: Routledge.
353. Umbach, B., Berryessa, C., and **Raine, A.** (2015). Brain Imaging Research on Psychopathy: Implications for Punishment, Prediction, and Treatment in Youth and Adults. Journal of Criminal Justice 43 295-306
354. Venables, P.H. and **Raine, A.** (2015). The stability of schizotypy across time and instruments. Psychiatry Research 228 585-590.
355. **Raine, A.** (2015). Low resting heart rate as an unequivocal risk factor for both the perpetration of and exposure to violence. JAMA Psychiatry 72 962-964.
356. Lam, B.Y.H., Yang, Y., **Raine, A.**, and Lee, T.M.C. (2015). Neural mediator of the schizotypy-antisocial behavior relationship: Prefrontal and orbitofrontal gray matter. Translational Psychiatry 5, e669; doi:10.1038/tp.2015.162
357. Chen, F.R., Gao, Y., Glenn, A., Niv, S., Portnoy, J., Schug, R., Yang, Y., and **Raine, A.** (2015). Biosocial bases of antisocial and criminal behavior. In A.R. Piquero (Ed.) Handbook of Criminological Theory (pp. 355-379). Chichester: Wiley-Blackwell.
358. Portnoy, J., **Raine, A.**, Glenn, A.L., Chen, F.R., Choy, O. and Granger, D.A. (2015). Digit ratio (2D:4D) moderates the relationship between cortisol reactivity and self-reported externalizing behavior in young adolescent males. Biological Psychology, 112, 94-106.
359. Canton, W., Glenn, A., **Raine, A.** and Verkes, R.J. (2015). Biological explanatory models of psychopathy. In Wim Canton, Daan van Beek, Laurence Claes, Luc Gijs, Ingeborg Jeandarme and Evelyn Klein Haneveld (eds.). Handbook of Psychopathy and Antisocial Personality Disorder (Handboek psychopathie en de

antisociale persoonlijkheids stoornis) (pp. 31-56). Utrecht: De Tijdstroom.

360. Liu, J., Cao, S., Chen, Z., **Raine, A.**, Hanlon, A., Ai, Y., Zhou, G., Yan, C., Leung, P.W., McCauley, L., Pinto-Martin, J. and the Jintan Cohort Study Group (2015). Cohort Profile Update: The China Jintan Child Cohort Study. International Journal of Epidemiology. doi: 10.1093/ije/dyv119
361. Wang, P., Gao, Y., Isen, J., **Raine, A.**, Lozano, D.I., Baker, L.A. (2015). Genetic Covariance between Psychopathic Traits and Anticipatory Skin Conductance Responses to Threat: Evidence for a Potential Endophenotype. Development and Psychopathology 27 1313-1322
362. Hawes, S.W., Perlman, S.B., Byrd, A.L., **Raine, A.**, Loeber, R., and Pardini, D. (2016). Chronic anger as a precursor to adult antisocial personality features: The moderating influence of cognitive control. Journal of Abnormal Psychology 125 64-74.
363. Venables, P.H. and **Raine, A.** (2016). The impact of malnutrition on intelligence at 3 and 11 years of age: The mediating role of temperament. Developmental Psychology 52 205-220.
364. Jackson, N.J., Isen, J., Khoddam, R., Irons, D., Tuvblad, C., Iacono, W., McGue, M., **Raine, A.** & Laura A. Baker (2016). Impact of adolescent marijuana use on intelligence: Results from two longitudinal twin studies. Proceedings of the National Academy of Sciences 113 500-508.
365. Chen, F. R., **Raine, A.**, Andrea, G. L., & Granger, D. A. (2016). Hypothalamic pituitary adrenal activity and autonomic nervous system arousal predict developmental trajectories of children's comorbid behavior problems. Developmental Psychobiology 58 393-405.
366. Lam, B.Y.H., **Raine, A.**, and Lee, T.M.C. (2016). Effect of theory of mind and peer victimization on the schizotypy-aggression relationship. NPJ Schizophrenia 2 doi:10.1038/npjschz.2016.1
367. Liu, J., and **Raine A.** (2016). Nutritional status and social behavior in preschool children: The mediating effects of neurocognitive functioning. Maternal & Child Nutrition DOI: 10.1111/mcn.12321
368. Tuvblad, C., Wang, P., Bezdjian, S., **Raine, A.**, and Baker, L.A. (2016). Psychopathic Personality Development from Ages 9 to 18: Genes and Environment. Development and Psychopathology 28 27-44.
369. **Raine, A.**, Cheney, R., Ho, R., Portnoy, P., Liu, J., Soyfer, L., Hibbeln, J., and Richmond, T. (2016). Nutritional supplementation to reduce child aggression: A

- randomized, stratified, single-blind, factorial trial. Journal of Child Psychology and Psychiatry, 57 1038-1046. doi:10.1111/jcpp.12565
370. Tuvblad, C., Dhamija, D., Bernsen, L., **Raine, A.**, Yang, A. and Liu, J. (2016). Cross Culture Validation of the Reactive-Proactive Aggression Questionnaire (RPQ) using four large samples from the US, Hong Kong, and China. Journal of Psychopathology and Behavioral Assessment 38 48-55.
 371. Murray, J., Hallal, P., Mielke, G.I. and **Raine, A.**, Wehrmeister, F.C., Anselmi, L. and Barros, F.C., (2016). Low resting heart rate is associated with violence in late adolescence: A prospective birth cohort study in Brazil. International Journal of Epidemiology 45 491-500.
 372. Chen, C.Y., **Raine, A.**, Chou, K.H., Chen, I.U., Lin, C.P, and Hung, D.L., and. (2016). Abnormal White Matter Integrity in Rapists as Indicated by Diffusion Tensor Imaging. BMC Neuroscience 17:45. DOI 10.1186/s12868-016-0278-3
 373. Choy, O., Berryessa, C.M., and **Raine, A.** (2016). The Ethics of Biological Interventions on Psychopathic Prisoners. American Journal of Bioethics: Neuroscience 7 154-156 _DOI 10.1080/21507740.2016.1218381
 374. Murray, J., Hallal, P., Mielke, G.I. and **Raine, A.**, Wehrmeister, F.C., and Barros, F.C. (2016). Heart rate activity and antisocial behavior. International Journal of Epidemiology, 45, 1687-1689.
 375. Cohn, M.D, Popma, A., **Raine, A.**, and Cima, M. (2016). Biological approaches to externalizing disorders and juvenile psychopathic traits. In M. Cima (Ed.), The Handbook of Psychopathology and Treatment (pp. 74-96). Routledge Mental Health: London.
 376. Tuvblad, C., May, M., Jackson, N., **Raine, A.** and Baker, L. (2017). Heritability and longitudinal stability of planning and behavioral disinhibition based on the Porteus Maze Test. Behavior Genetics 47 164-174.
 377. Pechorro, P., Kahn, R.E., Ray, J.V., **Raine, A.** and Gonçalves, R.A. (2017). Psychometric properties of the Reactive-Proactive Aggression Questionnaire among a sample of detained and community girls. Criminal Justice and Behavior 44 531-550
 378. Dhamija, D., Tuvblad, C., Dawson, M.E., **Raine, A.**, and Baker, L.A. (2017). Heritability of Startle Reactivity and Affect Modified Startle. International Journal of Psychophysiology 115 57-54
 379. Lam, B., **Raine, A.**, and Lee, T. (2017). Schizotypal Personality Questionnaire. In Virgil Zeigler-Hill and Todd K. Shackelford. Encyclopedia of Personality and

Individual Differences. (Live Reference ISBN 978-3-319-28099-8) Switzerland: Springer. DOI: 10.1007/978-3-319-28099-8_946-1

380. **Raine, A.** and Venables, P.H. (2017). Adolescent daytime sleepiness as a risk factor for adult crime. Journal of Child Psychology and Psychiatry **58** 728-735. doi:10.1111/jcpp.12693
381. Ling, S. and **Raine, A.** (2017). Psychopathy. In A. Brisman, E. Carrabine, and N.G. South (ed.) The Routledge Companion to Criminological Theory and Concepts. London: Routledge.
382. Berryessa, C. and **Raine, A.** (2017). Neurocriminology. In A. Brisman, E. Carrabine, and N.G. South (ed.) The Routledge Companion to Criminological Theory and Concepts.
383. Pechorro, P., Ray, J.V., **Raine, A.**, Maroco, J. and Abrunhosa, R.A. (2017). The Reactive-Proactive Aggression Questionnaire: Validation among a Portuguese sample of incarcerated juvenile delinquents. Journal of Interpersonal Violence **32** 1995-2017.
384. Glenn, A.L., Rummel, R.J., Ong, M.Y., Lim, N.S.J., Ang, R.P., Threadgill, H., Ryerson, N., **Raine, A.**, Fung, D., Ooi, Y.P. (2017). Neurocognitive characteristics of youth with noncomorbid and comorbid forms of conduct disorder and attention deficit hyperactivity disorder. Comprehensive Psychiatry **77** 60-70
385. Beech, A.R., Nordstrom, B., **Raine, A.** and Fisher, D. (2017). Understanding risk factors for offending: The contributions of neuroscience. In G. Davies and A. R. Beech (eds.) Forensic Psychology: Crime, justice, law, interventions (3rd ed.). Chichester: Wiley.
386. van de Weijer, S., de Jong, R., Bijleveld, C., Blokland, A., and **Raine, A.** (2017). The mediating and moderating influence of heart rate levels on the intergenerational transmission of crime. Societies **7**
<http://dx.doi.org/10.3390/soc7030023>
387. Glenn, A.L., Han, H., Yang, Y., **Raine, A.**, and Schug, R.A. (2017). Associations between psychopathic traits and brain activity during instructed false responding. Psychiatry Research: Neuroimaging **266** 123-137
388. Umbach, R., Ridgeway, G., and **Raine, A.** (2017). Aggression and Sleep: A Daylight Saving Time Natural Experiment on the Effect of Mild Sleep Loss and Gain on Assaults. Journal of Experimental Criminology **13** 439-453
389. Choy, O., **Raine, A.**, Farrington, D.P., and Venables, P.H. (2017). Explaining the

- gender gap in crime: The role of heart rate. Criminology 55 465-487.
390. Gao, Y., Eisenbarth, H., Zhang, W., Lu M., **Raine, A.**, Li, X. & Fung, A.L.C. (2018). P3 Amplitude and Psychopathic Traits in Youths: Distinct Contributions of the Grandiose-Manipulative and Daring-Impulsivity Traits. Personality and Individual Differences 120 87-94.
 391. Chen, F. and **Raine, A.** (2018). Effects of Harsh Parenting and Positive Parenting Practices on Youth Aggressive Behavior: The Moderating Role of Early Pubertal Timing. Aggressive Behavior 44 18-28.
 392. Isen, J. Baker, L., Kern, M.L., **Raine, A.**, and Bezdjian, S. (2018). Unmasking the Association between Psychopathic Traits and Adaptive Functioning in Children Personality and Individual Differences 124 57-65
 393. Umbach, R., **Raine, A.**, and Leonard, N.R. (2018). Cognitive Decline as a Result of Incarceration and the Effects of a CBT/MT Intervention: A Cluster-Randomized Controlled Trial. Criminal Justice and Behavior 45 31-55
 394. Chen, F.R., **Raine, A.** and Granger, D.A (2018). Testosterone and proactive and reactive aggression in youth: The moderating role of harsh discipline. Journal of Abnormal Child Psychology 46 1599-1612
 395. **Raine, A.** and Chen, F. (2018). The cognitive, affective, and somatic empathy scales (CASES) for children. Journal of Clinical Child and Adolescent Psychology 47 24-37
 396. Fonseca-Pedrero, E., Debbané, M., Ortuño-Sierra, J., Chan, R.C.K., Cicero, D., Zang, L., Brenner, C., Barkus, E., Linscott, R., Kwapil, T., Barrantes-Vidal, N., Cohen, A., **Raine, A.**, et al. (2018). The structure of schizotypal personality traits: A cross-national study. Psychological Medicine 48 451-462
 397. Wong, K.K. and **Raine, A.** (2018). Developmental aspects of schizotypy and suspiciousness: A Review. Current Behavioral Neuroscience Reports 5 94-101.
 398. Ling, S. and **Raine, A.** (2018). The neuroscience of psychopathy and forensic implications. Psychology, Crime & Law 24 296-312
 399. Koegl, C.J., Farrington, D.P. and **Raine, A.** (2018). The Relationship between Low Resting Heart Rate, systolic blood pressure and antisocial behavior in incarcerated males. Journal of Criminal Justice 55 88-95.
 400. Beech, A.R., Nordstrom, B. and **Raine, A.** (2018). Developmental Risk Factors. In A.R. Beech, A. J. Carter, R. E. Mann, and P. Rotshtein (eds.). The Wiley Blackwell Handbook of Forensic Neuroscience Vol. 2. Chichester: Wiley.

401. Focquaert, F., Glenn, A.L., and **Raine, A.** (2018). Free will skepticism, freedom, and criminal behavior. In G.D. Caruso and O. Flanagan (eds.) Neuroexistentialism: Meaning, Morals, and Purpose in the Age of Neuroscience New York: Oxford University Press (pp. 235-250)
402. Choy, O. and **Raine, A.** (2018). Omega-3 Supplementation as a Dietary Intervention to Reduce Aggressive and Antisocial Behavior. Current Psychiatry Reports **20** 32-36. DOI: 10.1007/s11920-018-0894-y
403. Liu, J., Xin Qiao, X., Dong, F. and **Raine, A.** (2018). The Chinese version of the Cognitive, Affective, and Somatic Empathy Scale for Children: Validation, gender invariance and associated factors PloS ONE **13** (5): e0195268.
404. Umbach, R., **Raine, A.**, and Gur, R.C. and Portnoy, J. (2018). Neighborhood disadvantage and neuropsychological functioning as part mediators of the race – antisocial relationship: A serial mediation model. Journal of Quantitative Criminology **34** 481-512
405. **Raine, A.** (2018). Antisocial personality as a neurodevelopmental disorder. Annual Review of Clinical Psychology **14** 259-289
406. Sng, K.I., Hawes, D.J., **Raine, A.**, Ang, R.P., Ooi, Y.P. and Fung, D.S.S. (2018). Callous Unemotional Traits and the Relationship between Aggressive Parenting Practices and Conduct Problems in Singaporean Families. Child Abuse and Neglect **81** 225-234
407. Fonseca-Pedrero, E., Ortuno-Sierrab, J., Molina, B.L., ... **Raine, A.** et al. (2018). Brief assessment of schizotypal traits: A multinational study. Schizophrenia Research 197 182-191. <https://doi.org/10.1016/j.schres.2017.10.043>
408. Choy, O., **Raine, A.**, and Hamilton, R.H. (2018). Stimulation of the Prefrontal Cortex Reduces Intentions to Commit Violence: A Randomized, Double-Blind, Placebo-Controlled, Stratified, Parallel Group Trial. Journal of Neuroscience **38** 6505-6512.
409. Ling, S., **Raine, A.**, Gao, Y., and Schug, S. (2018). The Mediating Role of Emotional Intelligence on the Autonomic Functioning – Psychopathy Relationship. Biological Psychology **136** 136-143
410. Portnoy, J., **Raine, A.**, Liu, J., and Hibbeln, J.R. (2018). Reductions in Family Violence Resulting from Supplementing Children with Omega-3 Fatty Acids: A Randomized, Double-Blind, Placebo-Controlled, Stratified, Parallel-Group Trial. Aggressive Behavior **44** 491-500.

411. Yang, Y. and **Raine, A.** (2018). The Neuroanatomical Bases of Psychopathy: A Review of Brain Imaging Findings. In C. J. Patrick (ed.) Handbook of psychopathy (2nd ed.). (pp. 380 – 400). New York: Guilford Press.
412. Ling, S., Umbach, R. and **Raine, A.** (2018). Neural basis of psychopathy. In M. DeLisi (ed.) Routledge International Handbook of Psychopathy and Crime. (pp. 121-136). Routledge: New York
413. Ling, S. and **Raine, A.** (2018). The Moral Acceptability of Neurointerventions for Prisoners. American Journal of Bioethics: Neuroscience DOI: 10.1080/21507740.2018.1496172
414. Wong, K.K.Y., **Raine, A.**, and Venables, P.H. (2018). The effect of being left home alone at age three years on schizotypy and antisocial behavior at ages 17 and 23 years. Journal of Psychiatry Research **105** 103-112.
415. Farah, T., Ling, S., **Raine, A.**, Yang, Y., and Schug, R. (2018). Alexithymia and Reactive Aggression: The Role of the Amygdala. Psychiatry Research: Neuroimaging **281** 85-91.
416. Fonseca-Pedrero, E., Chan, R.C.K., Debbané, M., Cicero, D.C., Zhang, L.C., Brenner, C., Barkus, E., Linscott, R.J., Kwapil, T., Barrantes-Vidal, N., Cohen, A., **Raine, A.**, Compton, M.T., Tone, E.B., Suhr, J., Muñiz, J., Pérez, A., Fumero, A., Giakoumaki, S., Tsaousis, I., Preti, A., Chmielewski, M., Laloyaux, J., Mechri, A., Lahmar, M.A., Wuthrich, V., Larøi, F., Badcock, J.C., Jablensky, A., and Ortuño-Sierra J. (2018). Comparisons of schizotypal traits across 12 countries: Results from the International Consortium for Schizotypy Research. Schizophrenia Research **199** 128-134.
417. Fonseca-Pedrero, E., Ortuño-Sierra, J., Debbané, M., ... **Raine, A.** ... (2018). The network structure of schizotypal personality traits Schizophrenia Bulletin **44** S468-479.
418. Tuvblad, C., Niv, S., Ashrafulla, S., **Raine, A.**, Leahy, R. and Baker, L.A. (2018). Relationships of Alpha, Beta, and Theta EEG Spectra Properties with Aggressive and Non-Aggressive Antisocial Behavior in Children and Adolescents. American Journal of Psychology **4** 429-437
419. Liu, J., Cui, Y., Li, L., Wu, L., Hanlon, A., **Raine, A.**, and Hibbeln, J. (2018). The mediating role of sleep in the fish consumption – cognitive functioning relationship: a cohort study. Scientific Reports **7** 17981. DOI:10.1038/s41598-017-17520-w
420. Siep, N., Tonnaer, F., van de Ven, V., Arntz, A., **Raine, A.**, Cima, M. (2019).

Anger provocation increases limbic and decreases medial prefrontal cortex connectivity with the left amygdala in reactive aggressive violent offenders. Brain Imaging and Behavior **13** 1311-1323

421. Ling, S., **Raine, A.**, Yang, Y, Schug, R., Portnoy, J., and Ho, R.M.H. (2019). Increased Frontal Lobe Volume as a Neural Correlate of Gray-Collar Offending. Journal of Research in Crime and Delinquency **56** 303-336.
422. Portnoy, J., Legee, K., **Raine, A.**, Choy, O. and Rudo-Hutt, A. (2019). Biosocial Risk Factors for Academic Dishonesty: Testing a New Mediation Model in Young Adults. Journal of Contemporary Criminal Justice **35** 21-35.
423. Choy, O., Portnoy, J., **Raine, A.**, Remmel, R. J., Schug, R., Tuvblad, C., & Yang, Y. (2019). Biosocial influences on offending across the life course. In D. P. Farrington, L. Kazemian, & A. R. Piquero (Eds.), The Oxford Handbook on Developmental and Life-Course Criminology. Oxford: Oxford University Press.
424. **Raine, A.** (2019). The neuromoral theory of antisocial, violent, and psychopathic behavior. Psychiatry Research **277** 64-69
425. **Raine, A.**, Ang, R.P., Choy, O., Hibbeln, J., Ho, R.M.H., Y.R., Lim, C.G., Lim-Ashworth, N.S.J., Ling, S., Liu, J.C.J.; Ooi, Y.P., Tan, Y.R., and Fung, D.S.S. (2019). Omega-3 and social skills interventions for reactive aggression and childhood externalizing behavior problems: A randomized, stratified, double-blind, placebo-controlled, factorial trial. Psychological Medicine **49** 335-344.
426. **Raine, A.** (2019). A neurodevelopmental perspective on male violence. Infant Mental Health Journal **40** 84-97
427. **Raine, A** and Uh, S. (2019). The Selfishness Questionnaire (SQ): Egocentric, Adaptive, and Pathological Forms of Selfishness. Journal of Personality Assessment **101**, 503-514.
428. Liu, J.H., Wong, K., Fanghong, D., **Raine, A.**, and Tuvblad, C. (2019) The Schizotypal Personality Questionnaire – Child (SPQ-C): Psychometric properties and relations to behavior problems with multi-informants ratings. Psychiatry Research **275** 204-211.
429. Ling, S., Umbach, R. and **Raine, A.** (2019). Biological explanations of criminal behavior. Psychology, Crime & Law **25** 626-640.
430. Jennings, J.R., Matthews, K.A., Pardini, D., and **Raine, A.** Heart rate and hurtful behavior from teens to adult: Paths to adult health. (2019) Development and Psychopathology, **31**, 1271-1283.

431. Fullerton, A.F., Jackson, N.J., Tuvblad, C., **Raine, A.**, and Baker, L.A. (2019). Early Childhood Head Injury Attenuates Declines in Impulsivity and Aggression across Adolescent Development in Twins. Neuropsychology, 33, 1035-1044
432. Tuvblad C., Wang, P., Patrick, C.J., Berntsen, L., **Raine, A.**, and Baker, L.A. (2019). Genetic and Environmental Influences on Disinhibition, Boldness, and Meanness as Assessed by the Triarchic Psychopathy Measure in 19-20-Year-Old Twins. Psychological Medicine, 49, 1500-1509
433. Wong, K. and **Raine, A.** (2019). Peer problems and low self-esteem mediate the suspicious and non-suspicious schizotypy – reactive aggression relationship in children and adolescents. Journal of Youth and Adolescence, 48, 2241-2254.
434. Portnoy, J., Jennings, J.R., Matthews, K.A., Pardini, D. and **Raine, A.** (2020). The Relationship Between Resting Heart Rate and Aggression is Racially Variant. Aggressive Behavior 46 170-180.
435. Lam, B.Y.H., **Raine, A.**, Fung, A.L.C., Gao, Y. and Lee, T.M.C. (2020). Caregivers' grit moderates the relationship between children's executive function and aggression. Frontiers Psychology 11 doi.org/10.3389/fpsyg.2020.00636
436. Dinic, B.M. and **Raine, A.** (2020). An item response theory analysis and further validation of the Reactive-Proactive Aggression Questionnaire (RPQ): The Serbian adaptation of the RPQ. Journal of Personality Assessment 102 469-479.
437. Choy, O., Focquaert, F. and **Raine, A.** (2020). Benign biological interventions to reduce offending. Neuroethics 13 29-41
438. **Raine, A.**, Leung, C.C., Singh, M. and Kaur, J. (2020). Omega-3 Supplementation in Young Offenders: A Randomized, Stratified, Double-Blind, Placebo-Controlled, Parallel Group Trial. Journal of Experimental Criminology 16 389-405
439. Hofhansel, L., Regenbogen, C., Weidler, C., Habel, U., **Raine, A.**, and Clemens, B. (2020). Stimulating the criminal brain: Different effects of prefrontal tDCS in criminal offenders and controls Brain Stimulation DOI: 10.1007/s00429-020-02106-6
440. Ling, S., **Raine, A.**, Waller, R.E., Ruparel, K., Loughhead, J., Gur, R. C. and Gur, R. (2020). Divergent Amygdala Volume Asymmetries for Male and Female Youth with High and Low Callous-Unemotional Traits. Crime and Delinquency 66 1419-1437
441. Portnoy, J., **Raine, A.**, Rudo-Hutt, A.S., Gao, Y., and Monk, K. (2020). Heart Rate Reactivity. Neighborhood Disadvantage, and Antisocial Behavior. Crime and Delinquency 66 1392-1416

442. Sohn, J.S., **Raine, A.** and Lee, S.J. (2020). The utility role of the Psychopathy Checklist-Revised (PCL-R) facets and item scores in predicting violent recidivism. Aggressive Behavior **46** 508-515
443. Chen, F.R., **Raine, A.**, Granger, D.A. (2020). The Within-Person Coordination of HPA axis and ANS in Stress Response and the Link to Behavior Problems Psychoneuroendocrinology **121** DOI: 10.1016/j.psyneuen.2020.104805
444. Farrington, D.P., Lösel, F., Braga, A.A., Mazerolle, L., **Raine, A.**, Sherman, L.W., Weisburd, D. (2020). Experimental Criminology: Looking Back and Forward on the 20th Anniversary of the Academy of Experimental Criminology. Journal of Experimental Criminology **16** 649-673
445. Hofhansel, L., Weidler, C., Votinov, M. Clemens, B., **Raine, A.**, and Habel, U. (2020). Morphology of the Criminal Brain: Gray Matter Reductions are linked to Antisocial Behavior in Offenders Brain Structure and Function **225** 2017-2028
446. Wong, K. K., & **Raine, A.** (2020). Schizotypal personality disorder. In B. J. Carducci (Editor-in-Chief), J. S. Mio and R. E. Riggio (Vol. Eds.), The Wiley-Blackwell encyclopedia of personality and individual differences: Vol. IV. Clinical, applied, and cross-cultural research (pp. 115-120). Hoboken, NJ: John Wiley & Sons.
447. Ling, S., **Raine, A.**, Choy, O., and Hamilton, R. (2020). Effects of Prefrontal Cortical Stimulation on Aggressive and Antisocial Behavior: A Double-Blind, Stratified, Randomized, Sham-Controlled, Parallel-Group Trial. Journal of Experimental Criminology **16** 367-387
448. Portnoy, J., Cui, N., **Raine, A.**, Frazier, A., Rudo-Hutt, A.S., and Liu, J. (2020). Autonomic Nervous System Activity and Callous-Unemotional Traits in Physically Maltreated Youth. Child Abuse and Neglect
<https://doi.org/10.1016/j.chiabu.2019.104308>
449. Chen, F., Fung, A.L.C. and **Raine, A.** (2021). The Cognitive, Affective and Somatic Empathy Scales (CASES): Cross-cultural replication and specificity to different forms of aggression and victimization. Journal of Personality Assessment **103** 80-91
450. Yang, Y. and **Raine, A.** (2021). Functional and structural brain imaging research on psychopathy. In A.R. Felthous and H. Sass (Eds.) International Handbook on Psychopathic Disorders and The Law (2nd ed., Vol. 1, pp 271-287). Hoboken, NJ: Wiley.
451. Gao, Y., Schug, R. Huang, Y. and **Raine, A.** (2021). Successful and unsuccessful

psychopathy: An updated neurobiological model. In A.R. Felthous and H. Sass (Eds.) International Handbook on Psychopathic Disorders and the Law. (2nd ed., Vol. 1, pp 591-605). Hoboken, NJ: Wiley.

452. **Raine, A.**, Fung, A.L.C., Gao, Y. and Lee, T.M.C. (2021). Omega-3 Supplementation, Child Antisocial Behavior, and Psychopathic Personality: A Randomized, Double-Blind, Placebo-Controlled, Stratified, Parallel Group Trial. European Child and Adolescent Psychiatry **30** 303-312.
453. **Raine, A.**, Wong, K. and Liu, J. (2021). The Schizotypal Personality Questionnaire for Children (SPQ-C): Factor Structure, Child Abuse, and Family History of Schizotypy. Schizophrenia Bulletin **47** 323-331.
454. Liu, J., Feng, R., Ji, X., Cui, N., Zhou, G., **Raine, A.**, Mednick, S.C. (2021). Midday napping in adolescents: Associations between nap frequency and duration across cognitive, behavioral, positive psychology, and health outcomes. Sleep **42** 9 DOI:10.1093/sleep/zsz126
455. Piquero, N.L., Ling, S., **Raine, A.** and Piquero, A. (2021). Heart Rate Fails to Predict White Collar Crime. American Journal of Criminal Justice **45** 349-362
456. Liu, J., Glenn, A.L., Cui, N. and **Raine, A.** (2021). Longitudinal Bidirectional Association Between Sleep and Behavioral Problems at Age 6 and 11 Years. Sleep Medicine **83** 290-298.
457. Franklin, A. Mathersul, D.C., **Raine, A.** and Ruscio, A.M. (2021). Restlessness in generalized anxiety disorder: Using actigraphy to measure physiological reactions to threat. Behavior Therapy **52** 734-744.
458. Oskarsson, S., Kuja-Halkola, R., Latvala, A., Andersson, A., Argibay, M.G., **Raine, A.**, Larsson, H. and Tuvblad, C. (2021). Low autonomic functioning as a risk factor for reoffending: A population-based study. PLoS ONE **16**(8): e0256250. <https://doi.org/10.1371/journal.pone.0256250>.
459. Boccadoro, S., Wagels, L., Henn, A.T., Hüpen, P., Graben, L., **Raine, A.**, Neuner, I. (2021). Proactive versus Reactive Aggression Within Two Modified Versions of the Taylor Aggression Paradigm. Frontiers in Behavioral Neuroscience **15** doi: 10.3389/fnbeh.2021.749041
460. Carollo, A., Bizzego, A., Gabrieli, G., Wong, K.K.Y, **Raine, A.**, and Esposito, G. (2021). I'm alone but not lonely. U-shaped pattern of perceived loneliness during the COVID-19 pandemic in the UK and Greece. Public Health in Practice <https://doi.org/10.1016/j.puhip.2021.100219>
461. Chen, F.R., Rudo-Hutt, A.S., **Raine, A.**, and Gao, Y. (2021). Reduced

- Electrodermal Fear Conditioning and Child Callous-unemotional Traits. Research on Child and Adolescent Psychopathology **49** 459-469.
462. Waller, R., Corbett, N., **Raine, A.**, Wagner, N.J., Broussard, A., Edmonds, D., Reardon, S., Jones, C., Itkin-Ofer, M., Schell, T., & Neumann, C.S. (2021). Reduced Sensitivity to Affiliation and the Affective Core of Psychopathy. Personality Disorders: Theory, Research, and Treatment **12** 437-447.
 463. Cui, N., **Raine, A.**, Connolly, C.A., Richmond, T.S., Hanlon, A., McDonald, C.C., and Liu, J. (2021). P300 Event-Related Potentials Mediate the Relationship between Child Physical Abuse and Externalizing Behaviors. Frontiers in Psychology **12** DOI:10.3389/fpsyg.2021.720094
 464. Boccardo, S., Wagels, L., Puiu, A.A., Votinov, M., Weidler, C., Demko, Z., **Raine, A.**, S., and Neuner, I. (2021). A meta-analysis on shared and distinct neural correlates of the decision-making underlying altruistic and retaliatory punishment. Human Brain Mapping **42** 5547-5562.
 465. Isen, J.D., Tuvblad, C., Younan, D., Ericson, M., **Raine, A.**, and Baker, L.A. (2021). Developmental Trajectories of Delinquent and Aggressive Behavior: Evidence for Differential Heritability. Child Psychiatry and Human Development <https://doi.org/10.1007/s10578-020-01119-w>
 466. Carollo, A., Bizzego, A., Gabrieli, G., Wong, K.Y., **Raine, A.**, and Esposito, G. (2022). Self-Perceived Loneliness and Depression During the COVID-19 Pandemic: a Two-Wave Replication Study. UCL Open Environment **4** doi:10.14324/111.444/ucloe.000051
 467. Liu, J., Portnoy, J., Cui, N., Rudo-Hutt, A., Yan, C. and **Raine, A.** (2021). Blood lead and mercury levels are associated with low resting heart rate in community adolescent boys. International Journal of Hygiene and Environmental Health **233** <https://doi.org/10.1016/j.ijheh.2020.113685>
 468. Makowski, D., Pham, T., Lau, Z.J., Leow, D., **Raine, A.** and Annabel Chen, S.H.A. (2021). The Structure of Deception: Validation of the Lying Profile Questionnaire. Current Psychology DOI10.1007/s12144-021-01760-1
 469. Sohn, J.S., **Raine, A.**, and Hong, Y.O. (2021). A Link between Psychopathy Affect and Instrumentality in Homicide. Homicide Studies **26** 308-323 <https://doi.org/10.1177/10887679211028879>
 470. Chen, F.R., Rudo-Hutt, A.S., **Raine, A.**, and Gao, Y. (2021). Reduced Electrodermal Fear Conditioning and Child Callous-unemotional Traits. Research on Child and Adolescent Psychopathology **49** 459-469.

471. Brewer-Smyth, K., Koenig, H.G., Kafonek, K., Adams, T., **Raine, A.** and Granger, D.A. (2021). Post-traumatic bio-behavioral rehabilitation of adult female victims. Delaware Journal of Public Health doi: 10.32481/djph.2021.09.021
472. Choy, O. and **Raine, A.** (2021). Vitamin D sufficiency attenuates the effect of early social adversity on child antisocial behavior. Psychological Medicine 52 4106-4115 <https://doi.org/10.1017/S0033291721001069>
473. Wong, K.K.Y., Wang, Y., Esposito, G., **Raine, A.** (2022). A three-wave network analysis of COVID-19's impact on schizotypal traits, paranoia and mental health through loneliness. UCL Open DOI: 10.14324/111.444/000092.v1
474. Portnoy, J., McGouldrick, S.H., **Raine, A.**, Zemel, B.S., Tucker, K.L., Liu, J. (2022). Lower Dietary Intake of Magnesium Associated with Increased Callous-Unemotional Traits in Children. Nutritional Neuroscience, 25, 2314-2323. <https://doi.org/10.1080/1028415X.2021.1963064>
475. Wagels, L., Habel, U., **Raine, A.** and Clemens, B. (2022). Neuroimaging, hormonal and genetic biomarkers for pathological aggression – success or failure? Current Opinion in Behavioral Sciences 43 101-110.
476. **Raine, A.**, Chen, F, and Waller, R. The Cognitive, Affective and Somatic Empathy Scales (CASES) for Adults. (2022). Personality and Individual Differences, 185, <https://doi.org/10.1016/j.paid.2021.111238>
477. Barnes, J.C., **Raine, A.**, and Farrington, D.P. (2022) The Interaction of Biopsychological and Socio-environmental Influences on Criminological Outcomes. Justice Quarterly 39 26-50 DOI:10.1080/07418825.2020.173042
478. Liu, J., Portnoy, J., **Raine, A.**, Gladieux, M., McGarry, P., and Chen, A. (2022). Blood lead levels mediate the relationship between social adversity and child externalizing behavior. Environmental Research <https://doi.org/10.1016/j.envres.2021.112396>
479. Choy, O., **Raine, A.** and Schug, R. (2022). Larger Striatal Volume is Associated with Increased Adult Psychopathy. Journal of Psychiatric Research 149 185-193.
480. Bertoldi, B.M., Perkins, E.R., Tuvblad, C., Oskarsson, S., Kramer, M.D., Latzman, R.D., Baker, L.A., **Raine, A.**, and Patrick, J.C. (2022). Pursuing the developmental aims of the triarchic model of psychopathy: Creation and validation of triarchic scales for use in the USC: RFAB longitudinal twin project Development and Psychopathology 34, 1088–1103
481. Trofimova, I., Bajaj, S., Bashkatov, S.A., Blair, J., Brandt, A., Chan, R.C.K., Clemens, B., Corr, P.J., Cyniak-Cieciura, M., Demidova, L., Filippi, C.A.,

- Garipova, M., Habel, U., Haines, N., Heym, N., Hunter, K., Jones, N.A., Kanen, J., Kirenskaya, A., Kumari, V., Lenzoni, S., Lui, S.S.Y., Mathur, A., McNaughton, N., Mize, K.D., Mueller, E., Netter, P., Paul, K., Plieger, T., Premkumar, P., **Raine, A.**, Reuter, M., Robbins, T.W., Samykin, D., Storozheva, Z., Sulis, W., Sumich, A., Tkachenko, A., Valadez, E.A., Wacker, J., Wagels, L., Wang, L.L., Zawadzki, B., and Pickering, A.D. (2022). What is next for the neurobiology of temperament, personality and psychopathology? Current Opinion in Behavioral Sciences, 45 101143
482. Wong, K.K.Y. and **Raine, A.** (2022). Nutrition, sleep, and exercise as healthy behaviors in schizotypy: A scoping review. Behavioral Sciences 12 412. <https://doi.org/10.3390/bs12110412>
483. Bertoldi, B.M., Evans, B., Oskarsson, S., Joyner, K., Tuvblad, C., Baker, L.A., Raine, A., Schwartz, J.A., Patrick, C.P. (2022). Relationship between Resting Heart Rate and Law Enforcement Involvement: The Moderating Role of Socioeconomic Status in a Sample of Urban Youth. Journal of Criminal Justice 82 <https://doi.org/10.1016/j.jcrimjus.2022.102004>
484. **Raine, A.**, Ling, A., Streicher, W., and Liu, J. (2022). The Conduct and Oppositional Defiant Disorder Scales (CODDS) for Disruptive Behavior Disorders. Psychiatry Research, 316 <https://doi.org/10.1016/j.psychres.2022.114744>
485. Dinic, B and **Raine, A.** Vujić, A., van Dongen, J. (2022). Cross-cultural validity of the Reactive-Proactive Aggression Questionnaire among adults across five countries. Journal of Interpersonal Violence 37 6261-6283
486. Dukart, J., **Raine, A.**, Eickhoff, S.B., and Poepl, T.B. Aberrant brain activity in psychopaths is associated with distribution of opioid and serotonergic receptors (2022). Biological Psychiatry 91 45-47
487. Liu, J., Magielski, J., Glenn, A. and **Raine, A.** (2022). The Bidirectional Relationship between Sleep and Externalizing Behavior: A Systematic Review. Sleep Epidemiology. <https://doi.org/10.1016/j.sleepe.2022.100039>
488. Oskarsson, S., Garcia-Argibay, M., Andersson, A., Kuja-Halkola, R., Latvala, A., Argibay, M.G., D'Onofrio, B.M., **Raine, A.**, Patrick, C.J., Lichtenstein, P., Larsson, H. and Tuvblad, C. (2022). Perinatal Factors and Offspring Criminal Convictions in Men and Women: A Population-Based Study. Journal of Criminal Justice 78 101879.
489. Bertoldi, B.M, Tuvblad, C., Joyner, K., Ganley, C., Raine, A., Baker, L., Latvala, A., Oskarsson, S., and Patrick, C.J. (2023). Role of Triarchic Traits in Relations of Early Resting Heart Rate with Antisocial Behavior and Broad Psychopathology

Dimensions in Later Life. Clinical Psychological Science 11 90-105.

490. **Raine, A.**, Choy, O., Leung, C.C., Singh, M., Kaur, J. (2023). Omega-3 and Vitamin D Supplementation to Reduce Recidivism: A Pilot Study. Journal of Experimental Criminology <https://doi.org/10.1007/s11292-023-09552-2>
491. Tonnaer, F., van Zutphen, L., **Raine, A.** and Cima, M. (2023). Amygdala connectivity and aggression In H. Swaab & G. Meynen (Eds.), *Handbook of Clinical Neurology*, 197, 87-106. Elsevier: Amsterdam.
492. Lamoureux, V., Glenn, A., Ling, S., **Raine, A.**, Ang, R. and Fung, D. (2023). The Role of Anxiety and Callous-Unemotional Traits in the Relationship between Externalizing Behaviors and Sleep Problems in Clinic-Referred Youth. Clinical Child Psychology and Psychiatry 28, 654-667.
493. Wagner, N., Perkins, E., Rodriguez, Y., Ordway, C., Flum, M., Hernandez-Pena, L., Perelstein, P., Sem, K., Paz, Y., Plate, R.C., Popoola, A., Lynch, S., Astone, K., Goldstein, E., Njoroge, W.F.M, **Raine, A.**, Pincus, D., Pérez-Edgar, K., & Waller, R. (2023). Promoting Empathy and Affiliation in Relationships (PEAR) Study: Protocol for a Longitudinal Study Investigating the Development of Early Childhood Callous-Unemotional Traits. BMJ Open, 13:e072742. doi:10.1136/bmjopen-2023-072742.
494. **Raine, A.**, Choy, O., Achenbach, T., and Liu, J. (2023). High Resting Heart Rate Protects Against the Intergenerational Transmission of Antisocial Behavior : A Birth Cohort Study. European Child and Adolescent Psychiatry 33 1597-1603
495. Ling, S., **Raine, A.** and Gao, Y. (2023). Sex differences in child psychopathic traits during adolescence: The role of heart rate. (2023) Criminal Justice and Behavior <https://doi.org/10.1016/j.jcrimjus.2023.102087>
496. Isakovic, B., Cucurachi, S., Tuvblad, C., Ling, A., Bertoldi, B., **Raine, A.**, Baker, L. and Evans, B.E. (2023). Hypothalamic-pituitary-adrenal axis responsivity in relation to psychopathic traits during adolescence Acta Psychologica 241 104055
497. Kahhale, I., Hanson, J., **Raine, A.**, Byrd, A. (2024). Associations between Subtypes of Empathy and Aggression in High-Risk Adolescents. Journal of Psychopathology and Behavioral Assessment <https://doi.org/10.1007/s10862-023-10112-1>
498. Gao, Y. and **Raine, A.** (2024). Primary and Secondary Variants of Callous-Unemotional Traits in Community Youths: Differences in Anticipatory Fear. Children 11, 359. <https://doi.org/10.3390/children11030359>
499. **Raine, A.**, Gur, R.C., Gur, R.E., Richmond, T., Hibbeln, H., Ho, R., and Liu, J.

- (2024). Omega-3 Supplementation Reduces Schizotypal Personality in Children: A Randomized Controlled Trial. Schizophrenia Bulletin 50 1117-1126
500. **Raine, A.**, Lia Brodrick, L., Dustin Pardini, D., Richard Jennings, R., and Rebecca Waller, R. (2024). Increased cardiac vagal tone in childhood-limited, adolescent-limited, and life-course persistent teenagers: The mediating role of low heart rate. Psychological Medicine 54 2426-2434.
 501. Boccadoro, S., Hüpen, P., **Raine, A.**, Habel, U., and Wagels, L.. (2024). Investigating proactive aggression in patients with borderline personality disorder and major depressive disorder using a modified version of the Taylor Aggression Paradigm. Frontiers in Psychology, 15, doi: 10.3389/fpsyg.2024.1439924
 502. Bertoldi, B.M., Sofi Oskarsson, S., Andersson, A., Schwartz, J.A., Latvala, A., Larsson, H., **Raine, A.**, Tuvblad, C., Patrick, C.J. (2024). Evidence for Intergenerational Transmission of Biological Risk for Antisocial Behavior: Low Resting Heart Rate in Fathers Predicts Elevated Criminality in Sons. Journal of Criminal Justice 94 <https://doi.org/10.1016/j.jcrimjus.2024.102258>
 503. Oskarsson, S., Bertoldi, B.M., Andersson, A., Siponen, R., Ling, S., **Raine, A.**, Baker, L., Evans, B., Tuvblad, C. (2024). Interaction of resting heart rate with empathy in predicting externalizing behavior. Journal of Psychopathology and Behavioral Assessment 46 47-61
 504. Liu, J., Yang, Y., Li, C., Perez, A., **Raine, A.**, Shi, H., Zou, L. (2024). Effects of Mind-Body Qigong Exercise on Overall Health, Fatigue/Sleep, and Cognition in Older Chinese Immigrants in the US: An Intervention Study with Controls. Journal of Aging Research 2481518.
 505. Choy, O. and **Raine, A.** (2024). The neurobiology of antisocial personality disorder. Neuropsychopharmacology 110150
 506. **Raine, A.** and Brodrick, L. (2024). Omega-3 supplementation reduces aggressive behavior: A meta-analysis of randomized controlled trials. Aggression and Violent Behavior 78 101956.
 507. Oskarsson, S., **Raine, A.**, and Baker, L. (2024). The mediating and moderating role of sensation-seeking in the association between resting heart rate and antisocial behavior. Journal of Psychopathology and Behavioral Assessment 46 598-614.
 508. Liu, J., Yi Yang, Y., Haoer Shi, H., Wong, K., **Raine, A.** (2025). Persistent Aggressive Behavior from Childhood to Adolescence: The Influence of Environmental Tobacco Exposure and the Protective Role of Fish Consumption. Criminal Behavior and Mental Health 35 41-50.

509. Kofler, L., Gao, Y., & **Raine, A.** (2025). Low parental empathy predicts callous-unemotional traits in children with enhanced autonomic sensitivity to the environment. Criminal Behavior and Mental Health **35** 63-72
510. Poon, K.Y. and **Raine, A.** (2025). Antisocial behavior: A Review and Synthesis. In P. Robbins and B.F. Malle (eds). Cambridge Handbook of Moral Psychology. (pp. 303-330). Cambridge: Cambridge University Press.
511. Achenbach, T.M., Ivanova, M.Y., Turner, L.V., Ritz, H., Almqvist, F., Begovac, I., Bilenberg, N., Bird, H., Chahed, M., Dobrean, A., Döpfner, M., Erol, N., Hannesdottir, H., Kanbayashi, Y., Lambert, M.C., Leung, P.W.L., Liu, J., Minaei, A., Novik, T.S., Oh, K.J., Petot, D., Petot, Pomalima, R., **Raine, A.**, Rudan, V., Sawyer, M., Simsek, Z., Steinhausen, H.C., van der Ende, J., Weintraub, S., Metzke, C.W., Wolanczyk, T., Zukauskienė, R., and Verhulst, F.C. (2025). Factor(s) for Clinical Assessment of Youth Psychopathology: Singular versus Plural in Parent- and Self-Reports from 24 Societies. Journal of Clinical Child and Adolescent Psychology **54** 318-327
512. Murtha, K., Perlstein, S., Seidlitz, J., **Raine, A.**, Hawes, S., Byrd, A., & Waller, R. (2025). Callous-unemotional traits, executive and verbal functioning, and risk for externalizing problems in a propensity-matched sample from the ABCD study. Journal of Child Psychology and Psychiatry, **66** 333-349
513. Sohn, J.S., **Raine, A.**, and Hong, Y.O. (2025). Do Psychopathic Traits Differentially Relate to Different Types of Family Homicide? Deviant Behavior doi: 10.1080/01639625.2025.2449910
514. Liu, J.H., Yang, Y., Shi, H., Perez, A., **Raine, A.**, Rao, H., and Li, C. (2025) Improving cognitive function in older Chinese immigrants through mind-body Qigong at senior daycare centers: the role of sleep as a moderator and mediator. Explore
515. Pieperhoff, P.R., Hofhansel, L., Schneider, F., Müller, J., Amunts, K., Weber-Papen, S., Weidler, C., Clemens, B., **Raine, A.**, Habel, H. (2025). Associations of brain structure with psychopathy. European Archives of Psychiatry and Clinical Neuroscience, <https://doi.org/10.1007/s00406-025-02028-6>
516. **Raine, A.**, Choy, O. and Blair, R.J.R. (2025). Editor's introduction to the special Issue on "The Neurobiology of Aggressive and Violent Behavior". Aggression and Violent Behavior, **84**, 102077
517. Daia, Y., Cui, N., Ji, X., **Raine, A.**, Richmond, T.S., and Liu, J. (2025). Bidirectional Relationship Between Child Happiness and Child Sleep Quality, and the Predicting Role of Prenatal Psychosocial Support: Results from Two Cohort

518. Griffith, R.L., Henry, L.C., **Raine, A.**, Stepp, S.D., Byrd, A.L. (2025). Shared and Unique Components of Executive Function as Predictors of Aggression Trajectories in High-Risk Adolescents Journal of Clinical Child & Adolescent Psychology
519. Psalt, L., Beech, A.R., and **Raine, A.** (in press). Understanding risk factors for offending: The contributions of neuroscience. In G. Davies and A. R. Beech and M.F. Colloff (eds.) Forensic Psychology: Crime, justice, law, interventions (4th ed.). Chichester: Wiley.
520. Oskarsson, S., Andersson, A., Bridget M. Bertoldi, Latvala, A., Evans, B., **Raine, A.**, Patrick, C.J., Larsson, H. and Tuvblad, C. (in press). Lower Resting Heart Rate as a Risk Factor for Criminal Offending and Unintentional Injuries Among Female Conscripts PLoS one
521. **Raine, A.**, Choy, O. and Blair, R.J.R. (2025). Editors' introduction to the special issue on "The neurobiology of Aggressive and Violent Behavior". Aggression and Violent Behavior, 102077.
522. Lamsma, J., **Raine, A.**, Thomas Nickl-Jockschat, T. and ENIGMA-SZ Investigators (in press). Structural brain abnormalities and aggressive behaviour in schizophrenia: Mega-analysis of data from 2095 patients and 2861 healthy controls via the ENIGMA consortium. Molecular Psychiatry

UNDER REVIEW

1. Hass, I.C., Lefort-Besnard, J., Blair, R.J., Canzler, U., Krajewski, J., Leonhardt, S., Pilz, C. S., **Raine, A.**, Weiss, C., Habel, U., and Clemens, B. Utility of the Personality Inventory for DSM-5 (PID-5) for transdiagnostic Classification of Depression and Schizophrenia Spectrum Disorders.
2. Shi, H., **Raine, A.**, Rudo-Hutt, A., Liu, J. Sleep problems are associated with altered resting EEG brainwaves in young adolescents
3. Eisenbarth, H., Patrick, C.J., Gao, Y. and **Raine A.** Psychophysiological Contributions to Psychopathy Causation. Special edition, Journal of Psychopathology and Behaviour Assessment.
4. **Raine, A.**, Choy, O., Liu, J. The Positive Face of Fearlessness: Evidence from a Birth Cohort using the Fearlessness Scale

5. **Raine, A.**, Choy, O., Liu, J.H. and Waller, R. Biomedical Mechanisms Underlying Externalizing Behavior and Fearlessness in Youths.
6. **Raine, A.** and Saven, H. Omega-3 Supplementation to Reduce Antisocial Behavior: A Meta-Analytic Review of Randomized Controlled Trials
7. **Raine, A.**, Gao, Y. and Choy, O. Enhanced Autonomic Fear Conditioning at Age 3 in Successful Adult Criminal Offenders
8. Hernandez-Pena, L., Koch, J., **Raine, A.** and Wagels, L. New technologies and future directions in aggression research.
9. Bertoldi, B.M., Patrick, C.J., Yancey, J.R., LaManna, R., Tuvblad, C., Oskarsson, S., Baker, L.A., **Raine, A.**, and Fowles, D. Electrodermal Reactivity in an Aversive Countdown Task: Concurrent and Prospective Relations with Triarchic Psychopathy Traits and Antisocial Behavior Outcomes in a Child-Aged Sample
10. **Raine, A.**, Dugre, J, Schug, R., Han, C., and Liu, J. Reduced orbitofrontal and amygdala volume reductions in murderers: Associations with psychopathy.
11. Lundin, I., Tuvblad, C., Tayebi, N., **Raine, A.**, Choy, O., Oskarsson, S. The Moderating and Mediating Influence of Resting Heart Rate in the Intergenerational Transmission of Antisocial Behavior.
12. Sapiain, D.Q., Garrido, F.C., Robles, C.M., Cortez-Rivera, C., and **Raine, A.** Affective deficits in clinical psychopathy: A systematic review of neurocognitive models, experimental tasks, and neurophysiological findings
13. Choy, O., **Raine, A.**, Gao, Y., Ang, R.P., and Fung, D.S.S. EEG activity and psychopathy in children with externalizing behavior.
14. His, A., Tuvblad, C., **Raine, A.**, Oskarsson, S. Internalizing and externalizing behaviors in adolescence and psychopathic personality traits in early adulthood – a longitudinal study

IN PREPARATION

1. Mohammed, A., **Raine, A.**, Liu, J.H. Fink, G. et. al. Associations between birthweight and adult human capital in lowlands middle-income countries: A multi-cohort study.
2. Gao, Y. Staginns, M., Aghajani, M., Klapwijk, E., Cecil, C., Baskin–Sommers, A., Pine D., **Raine, A.**, Thomopoulos, S., Thompson P.M., Fairchild, G., and De Brito, S.A. An ENIGMA mega-analysis of cortical structure and subcortical

volumes in youths with conduct disorder: Influence of sex, callous-unemotional traits and age-of-onset.

3. Bertoldi, B.M., Evans, B., Oskarsson, S., Joyner, K., Tuvblad, C., Baker, L.A., **Raine, A.**, Schwartz, J.A., Patrick, C.P. Physiological reactivity during a countdown task and boldness: A longitudinal study.
4. Kauhale, I., Hanson, J., **Raine, A.**, Byrd, A. Individual differences in brain structure are connected to empathy and aggression in high-risk adolescents