CURRICULUM VITAE

NAME Adrian Raine

WORK ADDRESS Department of Criminology,

McNeil Building,

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WEB http://www.crim.upenn.edu/faculty/profiles/raine.html

DATE/PLACE OF BIRTH January 27, 1954 / Darlington, England.

AGE 59

MARITAL STATUS Married with two children.

NATIONALITY British (permanent resident of the U.S.)

PRESENT POSITIONS 2007 - present: University Professor and the Richard

Perry Professor of Criminology, Psychiatry, and Psychology, University of Pennsylvania.

1986 - present: **Director**, Joint Child Health Project,

Mauritius.

2007- present. **Member**, Center for Cognitive

Neuroscience, University of Pennsylvania.

2009- present. Member, Center for Neuroscience & Society,

University of Pennsylvania.

2009 - present. **Core Member**, Center for Cognitive

Neuroscience, University of Pennsylvania.

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** (tenured), 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.
- 2008 2011: **Chair**, Department of Criminology, University of Pennsylvania.

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: President, Academy of Experimental Criminology.

2014: The Athenaeum Literary Award (book award for *The Anatomy of Violence*).

SOCIETY MEMBERSHIP American Psychological Association.

American Psychological Association:
American Psychological Society
Academy of Experimental Criminology
American Society of Criminology
International Neuroethics Society
Society for Biological Psychiatry

COURSES TAUGHT

Criminal Behavior Biosocial 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; schizotypal personality; developmental psychopathology; neuroethics; brain imaging;

psychophysiology; behavioral and molecular genetics; neurocognition;

FUNDED RESEARCH GRANTS

(Total costs \$30,303,321)

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. <u>Biomedical Research</u>. Principal Investigator \$5,000.
- 1988-1989: Delinquency in Mauritian children. <u>Faculty</u>
 <u>Research and Innovation Fund</u>, U.S.C. Principal Investigator. \$10,000.
- 1989-1900: Frontal lobe dysfunction in schizotypal personality disorder. <u>Biomedical Research</u>. 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 longterm community rehabilitation of schizophrenia: Small instrumentation program application. Alcohol and Drug Abuse Mental Health Administration. Principal Investigator. \$8,390.
- 1992-1993: Event-related potentials and schizotypal personality. <u>UCLA Clinical Research Center for Schizophrenia</u>. Principal Investigator. \$3,128.
- 1992-1993: Schizotypal personality. <u>NATO</u>. 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. PI. \$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. <u>NATO</u>. 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. <u>NATO</u>. 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. <u>NICHD</u> & <u>NIMH</u> (1 RO1 HD42259) Principal Investigator. \$3,116,512.
- 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. Pl. \$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, PI. \$67,128.
- 2011-2013: "Long-term reduction of aggressive behavior in children and adolescents using omega-3 supplementation: A randomized, placebocontrolled trial". Harry Frank Guggenheim Foundation, PI, \$37,120.
- 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.

GRANTS UNDER REVIEW

None currently.

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 Bihrle. 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: <u>Locus of control and socialization</u>. British Psychological Society, Aberdeen, Scotland.
- 2. 1983: <u>Electrodermal nonresponding and antisocial behavior in adolescents</u>. International Society for the Study of Individual Differences, London, England.
- 3. 1984: <u>Electrodermal correlates of schizotypy and psychopathy in criminals</u>. International Organization of Psychophysiology, London.
- 4. 1986: <u>Evoked potentials and antisocial behavior</u> NATO Advanced Study Institute on Antisocial Behavior, Italy.
- 5. 1987: <u>Psychopathic behavior and P300 event-related</u> 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: <u>Frontal dysfunction in schizophrenia: An MRI, neuropsychological, and psychophysiological examination</u>. Psychophysiology Society, London, England.
- 8. 1989: <u>Psychophysiological predictors of criminal behavior</u>. Psychophysiology Society, London, England.

- 9. 1989: <u>Structural and functional deficits to pre-frontal cortex in schizophrenia</u>. Camarillo State Hospital, Camarillo, California.
- 10. 1990: <u>Structural and functional characteristics of the corpus callosum in schizophrenics, psychiatric controls, and normal controls.</u> Fifth Biennial Winter Workshop on Schizophrenia, Badgastein, Austria.
- 11. 1990: <u>Electrodermal activity and psychopathy: A review</u>. 5th International Congress of Psychophysiology, Budapest, Hungary.
- 12. 1990: <u>Psychophysiology and crime: A prospective study</u>. 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: <u>Neuroanatomical basis of electrodermal activity in humans</u> NATO Advanced Research Workshop on Electrodermal Activity, Villeneuve d'Ascq, France, May 20-23, 1992.
- 18. 1992: <u>Biological theories of violence and aggression</u>. Fourth Symposium on Violence and Aggression, Saskatoon, Saskatchewan, Canada, June 21-24.
- 19. 1992: <u>The biology of violent and antisocial behavior</u>. Department of Criminal Justice, California State University, Fullerton, California, July 8.
- 20. 1992: <u>Biological bases of violence</u>. Department of Psychology, University of Buffalo, SUNY, October 16.
- 21. 1992: <u>Brain imaging in violent offenders</u>. Symposium on "Risk Factors for Violence", Society for Research in Psychopathology, Palm Springs, November 15.
- 22. 1992: <u>Biological basis of antisocial behavior</u>. Department of Psychology, Harvard University, November 30.

- 23. 1992: <u>Pre-frontal deficits in schizotypal personality disorder</u>. Study Group on "Defining the boundaries of schizophrenia", American College of Neuropsychopharmacology Annual Meeting, San Juan, Puerto Rico. December 14-18, 1992.
- 24. 1993: <u>Brain imaging in violent offenders</u>. Neurology Department, UCLA Neuropsychiatric Institute, January 4.
- 25. 1993: <u>Frontal dysfunction in murders</u>. Psychiatric Treatment Center, Alberta Hospital, Edmonton, Canada. January 21.
- 26. 1993: Schizotypal personality disorder: <u>Neuropsychological and psychophysiological processes</u>. Psychiatric Treatment Center, Alberta Hospital, Edmonton, Canada. January 22.
- 27. 1993: <u>Psychophysiological basis of violence</u>. Grand Rounds, Allegheny-Singer Research Institute, Pennsylvania Medical College, Pittsburgh, March 31.
- 28. 1993: <u>Arousal and frontal dysfunction theories of crime</u>. 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. 1933: <u>Biological bases of antisocial behavior</u>. Western Psychiatric Institute and Clinic, University of Pittsburgh, September 13.
- 33. 1993: <u>Under-arousal as a general predisposition to crime</u>. Symposium on "Underlying mechanisms in antisocial behavior". Annual Meeting of the American Society of Criminology, Phoenix, Arizona, October 27-30.
- 34. 1994: <u>Biological predispositions for violence and their implications for violence prevention</u>. American Academy for the Advancement of Science, Annual Meeting, San Francisco, February 18-23.
- 35. 1994: <u>Biological interventions for violence</u>. Grand Rounds, Department of Psychiatry, Stanford University School of Medicine, Palo Alto March 2.

- 36. 1994: <u>Birth complications and violence</u>. Neuroscience Forum, Department of Veterans Affairs, Neurology Clinic, Los Angeles.
- 37. 1994: <u>The Schizotypal Personality Questionnaire</u>. Symposium on personality measures, Society for Personality Assessment, Chicago, April 14-17.
- 38. 1994: <u>Brain imaging studies of violent criminals</u>. Symposium on Social and Biological Predispositions to Violence, American Psychological Association Annual Meeting, Los Angeles, August 12-16.
- 39. 1994: <u>Schizotypal personality: conceptual and theoretical issues.</u> Presidential Symposium in Honor of Jean Chapman, Society for Research in Psychopathology, Coral Gables, Miami, 29 September October 2.
- 40. 1994: <u>Biological correlates of antisocial behavior</u>. Department of Psychiatry, University of Chicago. October 10.
- 41. 1994: <u>Biological bases of antisocial and violent behavior workshop</u>. Sixth Annual Conference on Bonding and Attachment, Cleveland, Ohio, October 20-23.
- 42. 1994: <u>Biosocial bases of violence</u>. Colloquium, Department of Psychology, University of Pennsylvania. October 24.
- 43. 1994: <u>The neuropsychology of violence</u>. 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: <u>Birth complications combined with early maternal rejection at age one year predispose to violent crime at age 18 years</u>. 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: <u>Autonomic factors that protect against crime</u>. Symposium on "Individual Differences", 22nd Annual Meeting of the British Psychophysiological Society, December 19-21, London.
- 47. 1995: <u>Biology and crime: Science and politics</u>. University of California San Diego: Conference on Dealing with Dangerousness, February 23-26, San Diego.
- 48. 1995: <u>Biological bases of violence</u>. Grand Rounds, New York State Psychiatric Institute, March 17, New York.

- 49. 1995: <u>Brain imaging in murderers</u>. Symposium on "Biosocial bases of antisocial and violent behavior", Western Psychological Association, March 30-April 2, Los Angeles.
- 50. 1995: <u>Violence and biology</u>. Grand Rounds, Department of Psychiatry, University of Chicago at Illinois, April 19.
- 51. 1995: <u>Violence and biology: Causes and cures</u>. 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: <u>Autonomic nervous system factors underlying disinhibited, aggressive, and antisocial behavior in childhood and adolescence</u>. New York Academy of Sciences' Meeting on Understanding Aggressive Behavior in Children, New York, September 30 October 2.
- 54. 1995: <u>Schizotypal personality: skin conductance, MRI, and prefrontal dysfunction.</u>
 Symposium on schizotypy. Society for Psychophysiological Research, Toronto, Canada, October 11-15.
- 55. 1995: <u>Autonomic risk and protective factors for crime development</u>. 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: <u>Biosocial bases of aggression</u>. Guggenheim Conference on the Biology of Aggression. Toledo, Spain, January 5-9.
- 57. 1996: <u>Biological bases of antisocial and violent behavior</u>. Dept. of Psychology, University of Minnesota, April 19.
- 58. 1996: <u>Schizotypal personality disorder</u>. Dept. of Psychology, University of Minnesota, April 19.
- 59. 1996: <u>Introduction: Theories of Biosocial Interaction</u>. NATO Advanced Study Institute, Rodos Palace, Rhodes, Greece, May 12-21.
- 60. 1996: <u>The interaction of social and psychophysiological factors</u>. 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: <u>Biosocial bases of crime and violence</u>. Invited address, American Psychological Association, Toronto, August 9-13.
- 64. 1996: <u>Biosocial bases of violence</u>. 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: <u>Biological Bases of Antisocial and Violent Behavior</u>. Invited address, Sixth International Conference for the Association of to Treat Attachment Disordered Children, Denver, October 17-19.
- 68. 1996: <u>High autonomic arousal and information-processing at age 15 years as protective factors against crime at age 29 years</u>, Society for Psychophysiological Research, Vancouver, October 17-20.
- 69. 1996: <u>Biosocial bases of violence</u>. Conference on Ethological and Developmental Approaches to Male Violence. Wayne State University, Detroit, November 15.
- 70. 1996: <u>Prospective longitudinal studies on antisocial behavior</u> Department of Psychology, Northwestern University, November 19.
- 71. 1996: <u>Birth complications, maternal rejection, and violence</u>. Symposium on ABiological advances in understanding antisocial and criminal behavior@. American Society for Criminology, Chicago, November 20-23.
- 72. 1996: <u>Biosocial bases of violence</u>. Symposium on AFuture developments in criminological theory@. American Society for Criminology, Chicago, November 20-23.
- 73. 1997: <u>Brain imaging and violence</u>. 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: <u>Aggression and Violence: Biosocial perspectives</u> 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: <u>Lateral asymmetries in brain structure in violent offenders</u> Conference on Cerebral Laterality and Psychopathology, London, 18-21 June.
- 78. 1997: <u>Violence: reward and emotion</u>. British Neuropsychiatric Association and American Neuropsychiatric Association, Cambridge, England, July 20-22.
- 79. 1997: <u>Prefrontal deficits in violent offenders in the community</u> Institute of Psychiatry, Maudsley Hospital, London, September 30.
- 80. 1997: <u>Psychopathology and tonic heart rate</u> Symposium on AWhat can psychophysiology contribute to our understanding of psychopathology? (a), Society for Research in Psychopathology, Palm Springs, 23-26 October.
- 81. 1997: <u>Schizotypal personality: Conceptual and theoretical issues</u> Research seminar, Department of Psychiatry, University of Iowa, 10 November.
- 82. 1997: <u>Biosocial bases of violence</u> Grand Rounds, Department of Psychiatry, University of Iowa.
- 83. 1997: <u>Birth complications and violence</u> 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: <u>Schizotypal personality disorder</u>. Department of Psychology, UCLA. January 16.
- 86. 1998: Biosocial bases of violence. Fuller Seminar, Pasadena, CA, January 22.
- 87. 1998: <u>Biological bases of adolescent antisocial behavior</u>. Panel on Interdisciplinary Approach to Understanding Juvenile Delinquency. San Diego, February 26-March 1.

- 88. 1998: <u>Birth complications, maternal rejection, and violence</u>. Invited Speaker, Primal Health Research Conference, St. Andrews, Scotland April 23, 1998.
- 89. 1998: <u>Biosocial bases of violence</u>. Department of Psychology, University of Hong Kong, June 25
- 90. 1998: <u>Prenatal health: implications for antisocial and violent behavior</u>. 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: <u>Biology and violence brain research</u>. Invited address, Oregon Criminal Defense Lawyers Association Juvenile Law Seminar, Salishan, Oregon, October 23-24.
- 93. 1998: <u>Biological risk factors for conduct disorder and antisocial behavior</u>. Symposium on ALooking 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: <u>Neuropsychological factors in crime and violence</u>. Invited address, National Academy of Neuropsychology, Washington DC, November 4-7.
- 95. 1998: <u>Biosocial bases of violence</u>. Grand Rounds, Department of Psychiatry, Columbia University, November 18.
- 96. 1998: <u>Biosocial bases of child and adolescent antisocial behavior</u>. Developmental Psychopathology Section, NIMH, Bethesda, November 20.
- 97. 1998: <u>Biological bases of violence</u>. Plenary Panel, International Society for Traumatic Stress Studies, Washington, D.C., November 20-23.
- 98. 1999: <u>The development of aggressive behavior</u> 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: <u>Biosocial bases of violence</u>. 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: <u>Brain mechanisms and aggression</u>. 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 APrevention 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: <u>Autonomic factors</u>. 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: <u>Brain imaging</u>. 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: <u>Biological contributions to child and adolescent antisocial behavior</u>
 Symposium on Biological Aspects of Aggression, European Congress on Child and Adolescent Psychiatry, Hamburg, Germany, September 15-16.
- 108. 1999: <u>Crime and biology: recent advances</u>. Keynote address, German Psychological Association, Nuremberg, Bavaria, September 17-18.
- 109. 1999: <u>Psychopathy, violence, and brain imaging</u> Keynote speaker, Queen Sofia Center for the Study of Violence: International Workshop on Violence and Psychopathy, Valencia, Spain, November 15-16.
- 110. 2000: <u>Biosocial bases of violence</u> Department of Occupational Therapy, University of Southern California, January 13-14.
- 111. 2000: <u>Neurobiological bases of violence</u>. Neuroscience Lecture Series, Department of Neuropharmacology, Scripps Research Institute, La Jolla. January 18-20.
- 112. 2000: <u>Brain deficits in psychopaths</u> Controversies in Neuropsychiatry Psychopathy. American Neuropsychiatric Association, Fort Myers, Florida, February 20-22.

- 113. 2000: <u>The development of antisocial behavior: biosocial perspectives</u>. Invited speaker, Alumni Weekend, Department of Psychiatry, Stanford University, April 28-29.
- 114. 2000: <u>Biosocial bases of violence</u>. Invited speaker, NIH Behavioral and Social Sciences Seminar Series, NIH, Bethesda, MD, May 25.
- 115. 2000: <u>Brain function and aggression</u> Invited address, Conference on Biology of Aggression, Midland, Ontario, Canada, June 14-16.
- 116. 2000: <u>Biosocial bases of violence</u>. Grand Rounds, Department of Psychiatry, University of California, Davis, June 21.
- 117. 2000: <u>Female and male antisocial behavior: biosocial correlates</u>. Invited speaker, Conference on Juvenile Antisocial Behavior, Switzerland, September 18-19.
- 118. 2000: <u>Biological bases of violence</u>. Department of Psychology, University of Melbourne, Australia, October 4.
- 119. 2000: <u>Violence and brain imaging</u> Department of Psychology, University of Macquarie, Australia, October 5.
- 120. 2000: <u>The biological basis of criminal careers</u>. 13th Annual Occupational Science Symposium@ Biological basis of Occupation. University of Southern California, 26-27 October.
- 121. 2000: <u>Early educational and health enrichment is associated with increased autonomic and central nervous system arousal / orienting</u>. Symposium on Biobehavioral Integration of Aggression and Development, NIH Robert B. Cairns Memorial Conference, Chapel Hill, North Carolina, 14-15 October.
- 122. 2000: <u>Biology and violence</u>. Grand Rounds, Nathan Kline Institute, New York, November 13.
- 123. 2000: <u>Neurobiology, behavior, and prevention</u> National Institute of Drug Abuse Workshop, NIMH, Rockville MD, November 15.
- 124. 2000: <u>Biosocial bases of violence</u> Grand Rounds, Department of Psychiatry, Harbor / UCLA Medical Center, Los Angeles, December 12.
- 125. 2001: <u>Violence and psychopathy</u>. Queen Sofia Center for Violence, F.N.A.C., Madrid, Spain, February 28.
- 126. 2001: <u>Early environmental enrichment and the prevention of schizotypy</u> Key speaker, NATO Advanced Research Workshop on "Schizophrenia and

- Schizotypy: An Integration", Il Ciocco, Tuscany, Italy, March 24-27.
- 127. 2001: <u>Brain deficits in violent offenders</u>. Symposium on "Neurobiological Bases of Violence". Bureau of Prisons, Butner, North Carolina, May 30-31.
- 128. 2001: <u>Biosocial bases of childhood aggression</u>. Keynote speaker, 10th Scientific Meeting of the International Society for Research in Child and Adolescent Psychopathology, June 26-30.
- 129. 2001: <u>Biological bases of violence</u>. Invited lecture series on "Biological Basis of Violence", International University Menendez Pelayo, Valencia, Spain, October 1-5.
- 130. 2001: <u>Biology and violence: Theory and practice</u>. Invited one-day symposium, Les Marronniers Hospital, Tournai, Belgium, October 8.
- 131. 2001: <u>Neuroimaging and violence</u>. 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: <u>Brain bases of violence</u>. Invited panelist, 3rd Annual Dartmouth Student Science Congress, Dartmouth College, November 3.
- 133. 2001: <u>Criminal behavior and malingering as psychopathology</u>. Conference on Malingering and Mental Illness, Blenheim Palace, Woodstock, Oxford, November 7-9.
- 134. 2001: <u>Biosocial bases of violence</u>. Invited colloquium, Department of Psychology, University of California Long Beach. December, 5.
- 135. 2001: <u>Biosocial bases of violence</u>. Grand Rounds, Department of Psychiatry, Cedars-Sinai Medical Center, Los Angeles, December 6.
- 136. 2001: <u>Biological bases of antisocial and violence behavior: An update</u>. Fuller Seminary, Pasadena. January 15.
- 137. 2002: <u>Biosocial bases of violence</u>. Kennedy Center Lectures on Human Development and Developmental Disabilities, Department of Psychology, Vanderbilt University, February 6-8.
- 138. 2002: <u>The biological basis of antisocial behavior in children and adolescents</u>. 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: <u>Biological processes in the development of antisocial behavior in children.</u>
 Nevada Psychological Association, Reno, May 4.
- 141. 2002: <u>Brain imaging and antisocial personality disorder</u>. Invited presentation, 4th National Congress on Personality Disorders, Bilbao, Spain, June 20-23.
- 142. 2002: <u>Brain deficits, sexual violence, and abuse</u>. Invited address, International Association for the Treatment of Sexual Offenders, Vienna, Austria, September 11-14.
- 143. 2002: <u>Biological basis of violence</u>. Grand Rounds, Neuropsychiatric Institute, University of California, Los Angeles, September 24th.
- 144. 2002: <u>The development of antisocial behavior in children</u>. Department of Pediatrics, Santa Monica UCLA Medical Center, University of California, Los Angeles, September 25.
- 145. 2002: <u>Autonomic deficits and childhood conduct problems: Implications for etiology, psychopathy, desistence, and prevention</u>. 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: <u>Insights on violence from brain imaging research</u>. Keynote speaker at the Annual Meeting of the Belgian College of Neuropsychopharmacology and Biological Psychiatry, Belgium, October 25.
- 147. 2002: <u>The violent mind: Insights from brain imaging</u>. Keynote speaker, Queen Sofia Center for the Study of Violence: International Workshop on Biology and Violence, Valencia, Spain, November 7-8.
- 148. 2003: <u>Crime, Violence, and the Brain</u>. Invited speaker, The California Club, Los Angeles,
- 149. 2003: <u>Schizotypal and violence</u>. Seminar series on schizophrenia and major affective disorders, UCLA Aftercare Research Program, March 14.
- 150. 2003: <u>Early risk factors for antisocial and aggressive behavior</u>. 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: <u>The neurobiology of violence: Insights from brain imaging</u>. Keynote speaker, Conference on brain imaging and antisocial behavior, University of Montreal, May 7.
- 153. 2003: <u>Biosocial bases of antisocial behavior</u>. Keynote speaker, Conference on brain imaging and antisocial behavior, University of Montreal, May 7.
- 154. 2003: <u>Neurodevelopment and psychopathy</u>. Invited speaker, Symposium on Psychopathy, University of Wisconsin-Madison, July 19-21.
- 155. 2003: <u>Psychophysiology, Brain Imaging, and Antisocial Personality</u> Invited address, Third Psychopathy Symposium on "Psychiatry and the Problem of Evil, Department of Psychiatry, University of Sheffield, U.K., September 18.
- 156. 2003: <u>Schizophrenia and violence</u>. Keynote speaker, 18th Annual Noyes Schizophrenia Conference, Philadelphia, October 10.
- 157. 2003: <u>Brain mechanisms and antisocial behavior</u>. Colloquium, Division of Humanities and Social Sciences, and Computation and Neural Systems Program, California Insitiute of Technology, Pasadena, October 23.
- 158: 2003: <u>Biological basis of violence</u>. Invited speaker, 8th Annual Review of Psychiatry Conference, Neuropsychiatric Institute, University of California, Los Angeles, October 24-25th.
- 159. 2003: <u>Biosocial bases of violence: prevention implications.</u> Invited seminar, Columbia Center for Youth Violence Prevention, Columbia University, New York, December 1.
- 160. 2003: <u>Lombroso's legacy: Crime, brain mechanisms, and development</u>. Departmental colloquium, Department of Psychology, Harvard University, Boston, December 3.
- 161. 2004: <u>Biosocial bases of violence</u>. Taiwan National Science Council Visiting Scholar's Lecture, Institute of Criminology, National Taipei University, Taiwan, April 20.
- 162. 2004: <u>Brain imaging and violence</u>. 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: <u>Biological basis of violence: prevention implications</u>. 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: <u>Crime, brain mechanisms, and development</u>. Grand Rounds, Department of Psychiatry, University of Southern California, July 6.
- 166. 2004: <u>Biosocial bases of violence</u>. Departmental Colloquium, Department of Psychology, Virginia Tech, October 8.
- 167. 2004: <u>Violence: An interdisciplinary, clinical neuroscience perspective</u>. Invited speaker, Annual Bellarmine Forum on "Violence: An interdisciplinary Investigation into the Human Spirit. Loyola Marymount University, Los Angeles, November 7-13
- 168. 2005: <u>Antisocial Behavior: Brain Mechanisms, Development, and Prevention.</u> Departmental colloquium, Department of Psychology, Chinese University of Hong Kong, Hong Kong, March 15.
- 169. 2005: <u>Biosocial bases of violence</u>. Opening Address, UNESCO International Congress on Violence and its Contexts, Santiago de Compostela, Spain, April 14.
- 170. 2005: <u>The biopsychosocial bases of violence</u>. Graduate School of Criminology, National Taipei University, Taiwan, April 21, 2005.
- 171. 2005: <u>Lombroso's legacy: Crime, brain mechanisms, and development</u>. Keynote speaker, 2nd International Conference on Crime and its Control, Taipei, Taiwan, April 22.
- 172. 2005: <u>Unlocking the criminal mind: The biosocial keys</u>. Distinguished Lecture Series, University of Hong Kong, April 29.
- 173. 2005: <u>Neurobiology of violence</u>. 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: <u>The neurobiology of violence: Brain imaging findings</u>. Japanese Society for Neuroscience, July 26-28, Yokohama, Japan.
- 175. 2005: <u>The Mauritius Child Health Project</u>. Lifetime Perspectives on Risk, Prediction, and Development, Symposium in Honor of Sarnoff A. Mednick, Yountville, CA, September 11.
- 176. 2005: <u>Criminal Behavior: A Clinical Neuroscience Perspective</u>. Invited Colloquium, Department of Criminology, University of Pennsylvania, October 17.
- 177. 2005: <u>The neurobiology of criminal behavior</u>. 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: <u>Biocriminology: A new generation of research on criminal behavior</u>. 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: <u>Antisocial Behavior: Brain Mechanisms, Prevention, and Moral Responsibility</u>. Departmental Colloquium, Department of Psychology, University of Arizona, Tucson, Arizona, September 15.
- 184. 2006: <u>Violence, brain mechanisms, and moral responsibility</u>. President's Council Meeting, Cold Spring Harbor Laboratories, New York, October 6.
- 185. 2006: <u>Development of antisocial behavior in children and adults</u>. Department of Psychology and Social Behavior, University of California, Irvine, October 9th.
- 186. 2006: <u>Brain mechanisms and criminal behavior: Implications for criminal justice policy</u>. Ministry of Justice, The Hague, Netherlands, October 17.

- 187. 2006: <u>Neural basis of immoral behavior</u>. Master Lecture, Department of Psychiatry, Free University, Netherlands.
- 188. 2006: <u>The immoral brain: Evolution, brain structure, and cheating</u>. Invited address, Conference on "The Moral Sense", Ghent University, Ghent, Belgium, October 20-21.
- 189. 2006: <u>Antisocial Behavior: Brain Mechanisms, Prevention, and Moral Responsibility</u>. 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: <u>The neuroanatomical basis of antisocial, aggressive behavior.</u> Invited paper, Symposium on "What are the Sociobiological Bases for Aggression", American Neuropsychiatric Association, Tucson, Arizona, 16-20 February.
- 192. 2007: <u>Violence: Brain Mechanisms, Prevention, and Moral Responsibility.</u>
 Departmental Colloquium, Department of Forensic Psychiatry, University of Kuopio, Finland, March 13, 2007.
- 193. 2007: <u>Biology, treatment, and antisocial behavior in children and adults.</u> Departmental Colloquium, Department of Psychology, Cardiff University, Wales, March 15, 2007.
- 194. 2007: <u>Brain imaging research on violence: implications for society.</u> Departmental Colloquium, Imaging Neuroscience, Institute of Neurology, University College London, London, England. March 16, 2007.
- 195. 2007: <u>Emotions, morality, and criminal responsibility</u>. Keynote speaker, Foundation for Psychocultural Research, UCLA, Los Angeles, April 1.
- 196. 2007: <u>The brain basis to violent and psychopathy: Moral, ethical, and legal implications</u>. Keynote speaker, Grand Office of Prosecution, Seoul, South Korea, April 4.
- 197. 2007: <u>Crime intervention and prevention: Biosocial interventions in community and prison settings</u>. Keynote speaker, Department of Juvenile Justice and Corrections, Seoul, South Korea, April 5.
- 198. 2007: <u>The developmental of antisocial behavior: a biosocial perspective</u>. 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: <u>The neurobiology of crime and psychopathy</u>. Departmental Colloquium, Free University, Amsterdam, May 31.
- 201. 2007: <u>Preventing murder through nutritional interventions.</u> 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: <u>Antisocial personality disorder and Schizotypy</u>. Keynote address, International Congress of Personality Disorders, The Hague, Netherlands, September 19-22.
- 204. 2007: <u>Preventing Violence with Better Nutrition</u>. Keynote speaker, National Taipei University. Department of Criminology, Taipei, Taiwan, October 11.
- 205. 2007: <u>Psychopaths: Early developmental risk factors and dysfunctional brain</u> <u>mechanisms</u>. 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: <u>Violence: Brain mechanisms and moral responsibility</u>. Symposium on "Neurobiology of Escalated Aggression and Violence". Society for Neuroscience, San Diego, November 3-7.
- 208. 2007: <u>Crime prevention though experimental nutritional intervention.</u> Symposium on "Criminal Justice's Need for Experimental Research". <u>American Society of Criminology</u>, 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. <u>Brain mechanisms, moral decision-making, and antisocial behavior</u>. 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. <u>Neural bases of antisocial behavior: Neuroethical and neurolegal</u> implications. Neuroscience Speaker Series, Temple University, April 2.
- 214. 2008. <u>The biology and social implications of free will</u>. Invited speaker, IVth Brazilian Congress of Brain, Behavior and Emotion, Porto Alegre, Brazil, May 21.
- 215. 2008. <u>The neurobiology of crime</u>. Keynote speaker, IVth Brazilian Congress of Brain, Behavior and Emotion, Porto Alegre, Brazil, May 22.
- 216. 2008. <u>Neuroimaging in pathological liars and antisocials</u>. 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 decisionmaking. Invited speaker, International Symposium "Foundations of Human Social Behavior", University of Zurich, Zurich, Switzerland, June 18 to 21.
- 219. 2008. <u>The criminal brain: How, could, and should we change it?</u> Media seminar on "Neuroscience and Society, Penn Club of New York, New York, September 19, 2008.
- 220. 2008: <u>Unlocking crime: The biological keys</u>. 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: <u>Brain Imaging Evidence of Both Limbic and Frontal Dysfunction in Spouse Abusers</u>. Symposium on Biological Bases of Criminal Behavior, American Society of Criminology. November 12.
- 224. 2009: <u>Nutritional supplements as a treatment for aggression in children</u>. University of Nanyang, Singapore, February 3.
- 225. 2009: <u>Neurobiology of Violence: Neuroethical and neurolegal implications.</u>
 Distinguished Speaker Series, Department of Psychological Sciences, University of Missouri-Columbia,
- 226. 2009: <u>Neurobiology of Violence: Prevention and intervention implications</u>. 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: <u>Neurobiology of Crime: Prevention Implications</u>. 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, 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: <u>Biosocial Bases of Violence: Implications for Intervention and Prevention</u>. Keynote Address, International Conference on Social Work and Counseling Practice, City University, Hong Kong, June 4,
- 231. 2009: <u>Successful and Unsuccessful Psychopaths: Differential Biosocial Risk</u>
 <u>Factors</u>. 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: <u>Violence Prevention: A Nutritional Approach</u>. Keynote Address, European Federation of Child and Adolescent Psychiatry, Basle, Switzerland, September 8.
- 234. 2010: <u>Low electrodermal fear conditioning predisposes to childhood aggression</u> 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: <u>The Criminal Mind</u>. 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: <u>The neurobiology of psychopathy: Implications for intervention and prevention</u>. Colloquium Speaker, Neuroscience Program, Florida State University, November 10.
- 238. 2010: <u>The violent brain: A nutritional perspective</u>. 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: <u>Neurocriminology: Neuroethical & Neurolegal Implications</u>. Invited speaker, Organization for Biology, Bio-Medical Sciences and Psychobiology, University of Amsterdam, Netherlands, January 19th.
- 241. 2011: <u>Neurobiology of Antisocial Behavior</u>. Keynote speaker, 5th Annual National Congress on Neurobiology in Forensic Psychiatry, Nijmegen, Netherlands, February 20.
- 242. 2011: <u>Seeds of Sin: Early Biological Causes and Cures for Crime</u>. Invited speaker, Engaging Minds, British Museum, London, January 22.
- 245. 2011: <u>Neurocriminology: Implications for Public Policy</u>. 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: <u>The Criminology-BioPsychology Interface: Implications for society.</u> Michael Dinoff Memorial Open Public Lecture, University of Alabama, April 14.
- 250. 2011: <u>Neurocriminology: The Next Frontier</u>. Departmental Colloquium, Institute of Criminology, Cambridge University, May 5.
- 251. 2011: <u>Laboratory Experiments: Neurological Predictors of Violence</u>. 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: <u>The violent brain: Causes and cures</u>. Keynote address, 7th Brazilian Congress of Brain, Behavior and Emotions. Gramado, Brazil, June 15-18.
- 254. 2011: <u>Neurocriminology: Implications for Free Will and the Law</u>. Keynote address, 7th Brazilian Congress of Brain, Behavior and Emotions. Gramado, Brazil, June 15-18.
- 255. 2011: <u>Developmental Markers for Antisocial Behavior</u>. Keynote address, 7th Brazilian Congress of Brain, Behavior and Emotions. Gramado, Brazil, June 15-18.
- 256. 2011: <u>The functional neuroanatomy of antisocial personality disorder</u>. 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: <u>The Criminal Mind</u>. AAAS Judicial Seminar, Federal Courthouse, Philadelphia, November 11.
- 259. 2011: <u>The biology of violence: Implications for the law</u>. Society for Neuroscience, Washington DC, November 12.
- 260. 2011: <u>Neurocriminology</u>. 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: <u>The brain basis to crime: Ethical and legal implications</u>. Invited Address, Psi Chi / SEPA Southeastern Psychological Association, New Orleans, February 16.
- 263. 2012: <u>The Violent Brain: Ethical and Legal Implications</u>. 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. <u>Neurocriminology</u>. Invited Colloquium Speaker, Department of Criminal Justice, Temple University, March 23.
- 266. 2012. <u>The fearless psychopath</u>. Maastricht, Holland. Keynote Address, 40th Annual Meeting of the Netherlands Psychiatric Association
- 267. 2012: <u>Biomarkers for crime</u>. Invited address in honor of Professor David Farrington, Institute of Criminology, University of Cambridge. April 20.
- 268. 2012: <u>Crime prevention: A nutritional approach</u>. Invited colloquium, Institute of Psychology, University of Erlangen-Nuremberg, May 21.
- 269. 2012: <u>Crime prevention: A nutritional approach</u>. 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: <u>Neurocriminology: Final Frontier</u>. Department of Criminology, University of Maryland, College Park, MD. October 11.
- 273. 2012: <u>The neuroscience of violence</u>. Invited speaker, AAAS Judicial Seminar on Emerging Issues in Neuroscience, University of Minnesota School of Law, Minneapolis, October 25-26.

- 274. 2013: <u>Fear conditioning and antisocial behavior</u>. 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: <u>Neurobiology of Violence</u>. Invited speaker, Colloquium on Law, Neuroscience, and Criminal Justice, Stanford Law School, March 14-15,
- 277. 2013: <u>The anatomy of violence</u>. Invited speaker, Student Association for Law and Mind Sciences, Harvard Law School, April 4.
- 278. 2013: <u>Neurobiology of violence</u>. Invited Speaker, AAAS Seminar on Emerging Issues in Neuroscience, Atlanta, GA, April 11-12,
- 279. 2013: <u>Controversial issues in psychopathy research</u>. Invited speaker, inaugural paper for the Jevon Scott Newman Award. Society for the Scientific Research on Psychopathy, Atlanta, 6 June.
- 280. 2013: <u>The anatomy of violence: Back to the future</u>. Invited speaker, Symposium on The Future of Criminology. Stockholm Symposium. June 10.
- 281. 2013: <u>The anatomy of violence: The biological roots of crime.</u> Keynote speaker, Dutch Society of Criminology, University of Leiden, Netherlands, June 14.
- 282. 2013: <u>The anatomy of violence: The biological roots of crime</u>. Invited Plenary Speaker, World Congress on Brain, Behavior, and Emotions: "The Making of Violence" Sao Paulo, June 27, 2013
- 283. 2013: <u>Criminal behavior and free will: New science meets old dilemmas.</u> Invited Plenary Speaker, World Congress on Brian, Behavior, and Emotion, Sao Paulo, Brazil, June 29.
- 284. 2013: <u>The anatomy of violence: The biological roots of crime.</u> Invited colloquium, School of Criminology and Criminal Justice, Northeastern University, September 27.
- 285. 2013: <u>The functional neuroanatomy of antisocial behavior in children</u>. Invited participant, Symposia on The neurobiology of persistence in antisocial behavior. European College of Neuropsychopharmacology, Barcelona, Spain, October 8.
- 286. 2013: <u>Prediction, Punishment, and Prevention</u>. Invited speaker, Neuroscience in court. European College of Neuropsychopharmacology, Barcelona, Spain, October 8.

- 287: 2013: <u>The anatomy of crime: The growing body of evidence in neurocriminology</u>. Colloquium, Institute of Criminology, University of Cambridge, UK, October 17.
- 288: 2013: <u>The anatomy of violence: The biological roots of crime</u>. Invited speaker, Ministry of Justice, Brussels, Belgium, October 22.
- 288: 2013: <u>The anatomy of violence: The biological roots of crime</u>. Keynote speaker, 8th European Congresses on Violence in Clinical Psychiatry, Ghent, Belgium, October 25.
- 289. 2013: <u>The anatomy of Violence</u>. Invited speaker, Oxford University Psychology Society, Oxford, UK, November 6.
- 290. 2013: <u>The anatomy of violence</u>. Grand Rounds, Department of Neurology, University of Maryland Medical School, Baltimore, November 13.
- 291. 2013: <u>The anatomy of violence</u>. Public lecture, College of Charleston, November 14.
- 292. 2013: <u>The anatomy of violence</u>. Keynote speaker, University Correctional Health Care, Mercerville, NJ, November 18.
- 293. 2013: <u>The future of biosocial criminology</u>. Invited speaker, Presidential Panel, American Society of Criminology, Atlanta, November 20.
- 294. 2013: <u>The anatomy of violence</u>. Keynote address, Congress on Forensic Psychiatry, Utrecht, Netherlands, December 17.
- 295. 2014 <u>The anatomy of violence</u>. Keynote address, Taiwan Society of Cognitive Neuroscience National Central University, Taiwan, January 18.
- 296. 2014. <u>The anatomy of violence:</u> <u>The Biological Roots of Crime</u>. 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. <u>The anatomy of violence: The biological roots of crime.</u> Departmental Seminar, Department of Psychology, University of York, March 4.
- 299. 2014. The anatomy of violence: 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. <u>The anatomy of violence: The biological roots of crime.</u> Invited speaker, 2014 GALA 5th anniversary weekend workshop on "The Origin of Violence: From the Brain to World Wars", Arixona State University, April 5.
- 301. 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.
- 302. 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.
- 303. 2014. <u>The anatomy of violence: The biological roots of crime.</u> Keynote address, Association of Psychological Science Annual Convention, San Francisco, May 23.
- 304. 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.

OTHER CONFERENCE PAPERS (first author only)

- 1. 1980: <u>Classical conditioning and socialization a biosocial interaction.</u> Psychophysiology Society, London, England.
- 2. 1981: <u>Cortical augmenting-reducing modality specific</u>? 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: <u>Electrodermal, cardiovascular, and cortical predictors at age 15 of criminality at age 24</u>. Society for Research in Psychopathology, Miami, Florida.
- 10. 1989: <u>Tonic and phasic heart rate at age 15 and positive</u>/ <u>negative schizophrenia at</u> 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: <u>Structural and functional pre-frontal deficits in schizophrenia</u>. 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: <u>Neuroanatomical correlates of skin conductance orienting in normal humans:</u>
 <u>A magnetic resonance imaging study</u>. Society for Psychophysiological Research,
 Boston, October 20.
- 15. 1990: <u>Structural and functional pre-frontal deficits in schizophrenia</u>. 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: <u>Pre-frontal structural and functional deficits associated with schizotypal personality</u>. 5th Biennial Meeting of the International Society for the Study of Individual Differences, Oxford, July 22-26.
- 19. 1991: <u>Psychophysiological deficits in schizotypal personality disorder</u>. Thirty-First Annual Meeting of the Society for Psychophysiological Research, Chicago, October 9-13.
- 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: <u>Cognitive-perceptual, interpersonal, and disorganized features of schizotypal personality</u>. 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: <u>Autonomic nervous system factors that protect against crime.</u> Thirty-fourth Annual Meeting of the Society for Psychophysiological Research, Atlanta, Georgia, October 5-9.
- 25. 1996: <u>Autonomic nervous system factors at age 15 years which protect against crime development at age 29 years</u>. 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: <u>Structural Brain Deformations in "Successful" and "Unsuccessful" Psychopaths</u>. 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.

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). <u>Schizotypal personality disorder</u>. Cambridge: Cambridge University Press.
- 3. **Raine, A**., Brennan, P., Farrington, D.P. and Mednick, S.A. (Eds.) (1997). <u>Biosocial</u> bases of violence. New York: Plenum.
- 4. **Raine, A.** and Sanmartin, J. (Eds.) (2000). <u>Violencia y psicopatia</u>. Barcelona: Ariel. also published in English:
 - **Raine, A.**, and Sanmartin, J. (Ed). (2001) <u>Violence and psychopathy</u>. New York: Kluwer/Plenum
- 5. **Raine, A.** (Ed.) (2006). <u>Crime and schizophrenia: Causes and cures</u>. 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; Seoul: Next Wave; Stuttgart: Klett-Cotta Verlag.
- 7. Glenn, A. and **Raine, A**. (2014). <u>Psychopathy: A Guide to Biological Findings and Their Implications</u>. 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. <u>Journal of Personality and Social Psychology 41</u> 758-765.
- 3. **Raine, A.,** Mitchell, D.A. and Venables, P.H. (1981). Cortical augmenting-reducing modality-specific? <u>Psychophysiology</u> <u>18</u> 700-708.
- 4. **Raine, A.**, Roger, D. and Venables, P.H. (1982). Locus of control and socialization. <u>Journal of Research in Personality 16</u> 147-156.
- 5. Hulme, C., Smart, A., Moran, G. and **Raine, A.** (1983). Visual kinesthetic and cross-modal development: Relationships to motor skill development. <u>Perception</u> <u>12</u>

477-483.

- Raine, A. and Venables, P.H. (1984). Electrodermal non- responding, schizoid tendencies, and antisocial behavior in adolescents. <u>Psychophysiology</u> 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. <u>British Journal of Clinical Psychology</u> <u>24</u> 247-258.
- 10. **Raine, A.** (1986). Psychopathy, schizoid personality, and borderline/schizotypal personality disorders. <u>Personality and Individual Differences 7</u> 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. <u>Journal of Abnormal Child Psychology</u> <u>15</u> 583-599.
- 14. Venables, P.H. and **Raine, A.** (1987). Biological theory. In B. McGurk, D. Thornton and M. Williams (Eds.) <u>Applying psychology to imprisonment: Theory and practice</u>. (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. <u>British Journal of Clinical Psychology 26</u> 305-309.
- 16. **Raine, A.** (1987). Effect of early environment on electrodermal and cognitive correlates of schizotypy and psychopathy in criminals. <u>International Journal of Psychophysiology</u> 4 277-287.
- 17. **Raine, A.** (1988). Antisocial behavior and evoked potentials. In T.E. Moffitt and S.A. Mednick (Eds.) <u>Biological contributions to crime causation</u> (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. <u>Psychophysiology</u> <u>25</u> 30-38.
- 19. **Raine, A.** (1988). Psychopathy: A single or dual concept? <u>Personality and Individual</u> Differences 9 825-827.
- 20. **Raine, A.** (1988). Antisocial behavior and social psychophysiology. In H. Wagner (Ed.) <u>Social psychophysiology</u> <u>and emotion: Theory and clinical application</u> (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. <u>Journal of</u> Psychophysiology 2 221-225.
- 22. **Raine, A.** and Manders, D. (1988). Schizoid personality, inter-hemispheric transfer, and left hemisphere over-activation. <u>British Journal of Clinical Psychology</u> <u>27</u> 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. <u>Neuropsychologia</u> <u>26</u> 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. <u>Journal of Abnormal Psychology</u> <u>98</u> 35-41.
- 26. **Raine, A.** and Allbutt, J. (1989). Factors of schizoid personality. <u>British Journal of Clinical Psychology</u> 28 31-40.
- 27. **Raine, A.** (1989). Evoked potentials and psychopathy. <u>International Journal of Psychophysiology</u> <u>8</u> 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 <u>8</u> 29-34
- 30. Raine, A. and Venables, P.H. (1990). Evoked potential augmenting-reducing in

- psychopaths and criminals with poor smooth-pursuit eye movements. <u>Psychiatry</u> 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. <u>Personality and Individual Differences</u> 11 481-495.
- 32. **Raine, A.** and Dunkin, J.J. (1990). The genetic and psychophysiological basis of antisocial behavior: Implications for counseling and therapy. <u>Journal of</u> 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. <u>American Journal</u> 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. <u>Journal of Abnormal Psychology</u> 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. <u>Archives of General Psychiatry</u> <u>47</u> 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. <u>Journal of Abnormal Child Psychology</u> 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 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? <u>British Journal of Psychology</u> 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. <u>Schizophrenia Bulletin</u> <u>17</u> 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. <u>Psychophysiology</u> 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. <u>Journal of Nervous and Mental</u> Disease 180 131-133.
- 46. **Raine, A**. (1992). Sex differences in schizotypal personality in a non-clinical population. <u>Journal of Abnormal Psychology</u> 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. <u>Psychophysiology</u> 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. <u>Psychophysiology</u> 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. <u>Psychiatry Research</u> 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. <u>Journal of Clinical Psychology</u> 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.).

 <u>Proceedings of the Fourth Symposium on Violence and Aggression</u> (pp. 1-28).

 University of Saskatchewan: Saskatoon.
- 57. Mills, S. and **Raine, A**. (1994). Brain imaging and violence. <u>Journal of Offender Rehabilitation</u> 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). <u>Understanding and preventing violence: Vol. 2 -</u> 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. <u>Psychophysiology</u> <u>31</u> 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. <u>Archives of General Psychiatry</u> <u>51</u> 984-988 (findings also reported and discussed in <u>Science</u> 1994, <u>263</u> 1375, <u>Science</u> 1994 <u>265</u> 171, and <u>Science</u> 1994 <u>265</u> 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.

 <u>Biological Psychiatry</u> 36 365-373. (also reprinted in J.A. Talbott (Ed.) <u>The</u>

 Yearbook of Psychiatry and Applied Mental Health St. Louis: Mosby, 1996; also

- reprinted in K.M. Beaver and A. Walsh (eds.) <u>Biosocial theories of crime</u>. Surrey, U.K.: Ashgate. 2010) (see also correspondence in <u>Biological Psychiatry</u> 1995 <u>38</u> 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. <u>Psychiatry</u> 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.
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- Lencz, T. and Raine, A. (1995). Schizotypal personality: Synthesis and future directions. In A. Raine, T. Lencz, and S.A. Mednick (Eds). <u>Schizotypal</u> 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. <u>Journal of Abnormal Child Psychology</u> 23 607-618.
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- 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. <u>American Journal of Psychiatry</u> 152 1595-1600.

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- 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. <u>Behavioral and</u> 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. <u>Archives of General Psychiatry</u> 53 544-549.
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- 80. **Raine, A.** and Buchsbaum, M.S. (1996). Violence and brain imaging. In D.M. Stoff and R.B. Cairns (Eds.). <u>Neurobiological approaches to clinical aggression research</u> (pp. 195-218). Mahwah, N.J.: Lawrence Erlbaum.
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- 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.
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- 3. Liu, J., **Raine A.,** and Dalais, C. <u>Malnutrition impairs social behavior in preschool</u> children
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- 8. Yang, Y., Narr, K.L., Baker, L.A., Joshi, S., Jahanshad, N., Gutman, B., Phillips, O.R., Raine, A. & Thompson, P.M. Frontal and Striatal Alterations Associated with Psychopathic Traits in Adolescents
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- 11. Tuvblad, C., Raine, A., Yang, A. and Liu, J. Cross Culture Validation of the

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- 12. Tuvblad, C., Bezdjian, S., Wang, P., **Raine, A**., and Baker, L.A. <u>Psychopathic</u> Personality Development from Ages 9 to 18: Genes and Environment
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- 15. Isen, J. Baker, L., **Raine, A**., and Bezdjian, S. <u>Unmasking the Association between</u>
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- 18. Venables, P.H. and **Raine, A**. The factor structure of schizotypy stability across time and instruments.
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IN PREPARATION

Articles: Invited

- 1. Glenn, A., Focquaert, F, and **Raine, A**. Agency, responsibility, free will, punishment, and the law. In T. Nadelhoffer (Ed.) <u>The Future of Punishment and Retribution</u>. Oxford: Oxford University Press.
- Schug, R., Gao, Y. and Raine, A. Disorders of Defiance, Aggression, and Violence: Oppositional Defiant Disorder, Conduct Disorder and Antisocial Personality Disorder in Males. In C. Zaroff and R.C. D'Amato (eds.). <u>Neuropsychology of Men</u>. Springer.
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Articles: Others in preparation

- 1. Liu, J., **Raine, A.**, Venables, P.H., & Mednick, S. A. <u>Early breastfeeding is linked to increased cognitive ability at age 3 and 11 years</u>.
- Portnoy, J., Chen, F., Gao, Y., Glenn, A.L., Niv, S., Peskin, M., Rudo-Hutt, A., Schug, R.A. Yang, Y., and Raine, A. Bio-social perspectives on sex, gender and crime. In W. McCarthy and R. Gartner (eds.). <u>Oxford Handbook on Gender, Sex and</u> Crime. Oxford: Oxford University Press.
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- 5. Lam, B.Y.H., **Raine, A.**, and Lee, T.M.C. <u>The relation between neurocognition and symptomatology in people with schizophrenia: Social cognition as the mediator.</u>
- 6. Johnson, A., Glenn, A., and **Raine, A**. Antisocial personality disorder: A review. <u>Current Psychiatry Reports.</u>
- 7. Portnoy, J. and Raine, A. Biological contributions to criminological research.
- 8. Schug, R.A., **Raine, A**., Han, C., and Liu, J.H. <u>Psychopathy and Forensic</u> Characteristics in a Sample of Chinese Homicide Offenders

- 9. Rudo-Hutt, A., Portnoy, J., Chen, F. and **Raine, A**. Paradigm shift in the past 10 years. In M. DeLisi (ed). <u>Handbook of Biosocial Criminology</u>.
- 10. Dhamija, D., Tuvblad, C., Dawson, M.E., **Raine, A**., and Baker, L.A. <u>Heritability of Startle Reactivity and Affect Modulated Startle</u>
- 11. Chen, F.R., **Raine, A.**, Soyfer, L. and Grainger, D. <u>Stability of Comorbid Behavior Problems in Early Adolescence: Synchroncity with Trait-like Adrenocortical Activity and Autonomic Arousal</u>
- 12. Chen, F.R., **Raine, A**., Baker, A. and Fung, A. <u>Decomposing Ethnic Differences in</u> Proactive and Reactive Aggression