

CURRICULUM VITAE

Name: Richard Allen DEPUE

Address: *Laboratory of Neurobiology of Temperament and Personality*
Institute of Human Neuroscience
Department of Human Development, 243 MVR Hall
Cornell University, Ithaca, NY 14853
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Degrees:

1972 Ph.D., University of Oklahoma, Primatology and Clinical Psychology (APA-Approved)
1969 APA-Approved Internship, Spring Grove Hospital Research Center, Maryland
1967 B.A., Gettysburg College, Psychology, English Literature

Research Area:

My work is on the neurobiology and neurochemistry associated with the structure of personality, emotion, and cognition. Psychobiological systems underlying personality are modulated pharmacologically in humans, and the sensitivity of the responses is assessed hormonally, emotionally, motorically, and cognitively. The work has direct implications for personality disorders and disorders of affect. Currently, the role of mu-opiates in the reward that underlies social bonding is being studied through the use of genetic polymorphisms.

Academic Appointments:

1992-2017 Cornell University, Department of Human Development: Courses: affective and social neuroscience, psychobiology of temperament and personality, neurogenetics and epigenetics in the development of individual differences.

1981-92 University of Minnesota, Department of Psychology: Courses: neurobiology of personality and psychopathology; clinical and research interviewing; psychobiology of stress.

1975-81 SUNY Buffalo, Department of Psychology

1972-75 Southern Illinois University – Carbondale, Department of Psychology

Honors:

Best Research Paper of 2016 Award, American Psychological Association, Developmental Division, Moore, Sarah R.; Depue, Richard A. (Feb, 2016). Neurobehavioral foundation of environmental reactivity. *Psychological Bulletin*, 142(2):107-164.

Most cited and downloaded article for 2013 in Frontiers; 3rd highest cited across 10 neuroscience journals 2013; Depue, R., Fu, Y. (2013). On the nature of extraversion: Variation in conditioned contextual activation of dopamine (methylphenicate)-facilitated affective, cognitive, and motor processes. *Frontiers in Human Neuroscience*.

Top 10 cited in Behavioral and Brain Sciences 1999. Depue, R., & Collins, P. (1999). Neurobiology of the structure of personality: Dopamine, facilitation of incentive motivation, and extraversion. *Behavioral and Brain Sciences* (**Target Article**) 22: 491-569.

Career Research Award in Personality, International Society for the Study of Individual Differences

My inventory (**General Behavioral Inventory**) is most used questionnaire for trait diagnosis of unipolar and bipolar affective conditions ranging from subsyndromal to syndromal intensity; Translated into 25 foreign languages as of 2016

Faculty, 1993 Summer Program in Cognitive Neuroscience, Dartmouth College

McKeen-Cattell American Psychological Association **Sabbatical** Award (*only 1 awarded*)

Chair, Research Scientist Award Review Committee, NIMH IRG.

Three-Times Member and Chair, Psychopathology and Clinical Biology Research Review Committee, NIMH IRG

Administrative Experience:

- 2013-16 Director of Graduate Studies, Human Development, Cornell University
- 2013-16 Executive Committee, Human Development, Cornell University
- 2008-11 Member, Executive Committee, Department of Human Development, Cornell University
- 1992-95 Chair, Research Scientist Award Review Committee, NIMH IRG.
- 1990-92 Director, Research Training Program in Neurobehavioral Aspects of Personality & Psychopathology, Department of Psychology, University of Minnesota
- 1990-91 Chair, Search Committee for Departmental Chair, Department of Psychology, University of Minnesota
- 1985-92 Chair and Member, Promotion and Tenure Committee, Department of Psychology, University of Minnesota
- 1985-91 Member, Executive Committee, Department of Psychology, University of Minnesota
- 1985-87 Member, College of Liberal Arts Assembly, University of Minnesota
- 1983-87 Member and Chair, Psychopathology and Clinical Biology Research Review Committee, NIMH IRG

Grants (as PI): (Continuous NIMH Research Funding from 1978 to 2005)

- 2011-12 Institute for Social Sciences, Cornell University. \$8000
- 2001-04 NIMH Research Grant MH55347, Neurobiology of Personality. Direct costs: \$1.5 million
- 1999-00 NIH Research Grant via Cornell University, Opiates and Affiliative Reward. Direct costs: \$21,000.
- 20000-02 NIMH NRSA Biology of Attachment (Jeannine Morrone), \$145,000.

1997-01 NIMH Research Grant MH55347, Neurobiology of Temperament & Personality. Direct costs: \$878,000.

1997-99 NRSA NIMH, Biology of Anxiety (Tara White), \$138,000.

1995-97 NIH Research Grant via Cornell University, Norepinephrine, Fear, and Anxiety. Direct costs: \$62,000.

1992-95 NIMH Research Grant MH 48114, Neurobiology of personality and emotion. Direct costs: \$707,322.

1991-96 NIMH Research Training Grant 2T32MH 17069, Neurobiology of psychopathology. Direct costs: \$744,000. (Still active via Renewals)

1978-92 NIMH Research Grant MH-37195, Behavioral and dopaminergic aspects of subsyndromal unipolar and bipolar affective disorders. \$1,675,000.

Published Work:

Depue, R (in prep). *Sources of Individual Differences: The confluence of genetics, environment, and epigenetics*. Guilford Press.

Selcuk, E. Fu, Y., Gul, G., Moore, S., Schweitzer, P., & Depue, R. Genetic variation in mu-opiate (OPRM1) and oxytocin (rs53576) receptors interacts to modulate level of attachment anxiety but only in individuals who have had an adverse family history. *Social Neuroscience* (revise & resubmit, 2018).

Fu, Y., & Depue, R. A novel framework of the effects of positive early experience on incentive and consummatory reward sensitivity. *Neuroscience and Biobehavioral Reviews*. (revise & resubmit 2018).

R.A., Depue (in press). Dynamic Interaction of Neurochemical Pathways and Environmental Context in the Development of Individual Differences in Two Reward Systems Underlying the Structure of Temperament and Personality. *Philosophical Transactions of the Royal Society of London, Series Biology*.

Fu, Y., Selcuk, E., Moore, S.R., & Depu R.A. (2018). Touch-induced face conditioning is mediated by genetic variation in opioid but not oxytocin receptors. *Nature Scientific Reports* DOI:10.1038/s41598-018-27199-2

Moore, Sarah R., Depue, Richard A. (2016). Neurobehavioral foundation of environmental reactivity. *Psychological Bulletin*, 142(2):107-164.

Best Paper Award of 2016, American Psychological Association, Developmental Division.

Lenzenweger, M. & Depue, R. (2015). A neurobehavioral model of personality disorders. In D. Cicchetti (Ed.). *Developmental Psychopathology: Risk, Disorder, and Adaptation*. NY: Wiley-Interscience.

Moore, S., Fu, Y., & Depue, R. (2014). Individual differences in a social bonding trait modulate attentional capture by affiliative stimuli. *Frontiers in Personality and Social Psychology*, 1-16.

Depue, R., Fu, Y. (2013). On the nature of extraversion: Variation in conditioned contextual activation of dopamine (methylphenidate)-facilitated affective, cognitive, and motor processes. *Frontiers in Human Neuroscience*.

Depue, R.A., & Fu, Y. (2012). The neurobiology and neurochemistry of temperament. In M. Zentner (Ed.), *The Handbook of Temperament*. NY: Guilford Press.

Depue, R., & Fu, Y (2012). Modeling borderline personality disorder based on the neurobehavioral foundation of major personality traits. *Psychodynamic Psychiatry* 40:131-181 (**Special Issue on Personality Disorders**. Guest Editor: Michael Stone).

Depue, R (2011). The Neurobiology of personality: Implications for conceptualizing personality disorders as dimensional, multifactorial phenomena. *International Review of Psychiatry* 23: 258–281. (Special Issue Neurobiology & Neurochemistry of Personality & Personality Disorders).

Lenzenweger, M.F., & Depue, R.A. (2011). Neue Erlebungen zur Borderline-Perschkeitsstörung aus epidemiologischer, longitudinaler und neurobehavioraler Sicht. In B. Dulz, S.C. Herpertz, O.F. Kernberg, & U. Sachsse (Eds.), *Handbuch der Borderline-Störungen* (2nd ed.) (pp. 93-106). Stuttgart: Schattauer.

Weinger, P. & Depue, R. A. (2011). Remediation of deficits in recognition of facial emotions in children with autism spectrum disorders. *Child and Family Behavior Therapy* 33:20-31.

Depue, R. & White, T. (2010). Neurobiology of personality: Use of a pharmacological challenge protocol. *International Encyclopedia of Psychopharmacology*. NY: Oxford University Press.

Depue, R. (2009). Dopamine, motivated behavior, and depression. *International Encyclopedia of Depression*. NY: Springer Verlag.

Depue, R. (2009). Epigenetic factors in the development of personality disorders. (**Special Issue**) *Development and Psychopathology*. In D. Cicchetti (Ed.). *Developmental Psychopathology*. Wiley-Interscience.

Depue (2009). Neurobehavioral dimensions in personality and personality disorders. In S. Wood (ed.), *The Neuropsychology of mental illness*. NY: Cambridge University Press.

Depue (2007). Psychobiology of Personality. In Caccioppo (Ed.), *Handbook of Social and Affective Neurosciences*. NY: Cambridge University Press.

Depue (2007) Neurobehavioral foundation of agentic and affiliative extraversion. In R Krueger (ed), *Personality and Psychopathology*. NY: Guilford Press.

Depue (2006) Dopamine in agentic and opiates in affiliative forms of extraversion. In T. Canli (ed), *Biology of personality and individual differences*. NY: Guilford Press.

Depue & Lenzenweger (2005). Personality disorders as emergent phenotypes from multiple interaction neurobehavioral systems. In Clarkin & Lenzenweger (Eds), *Handbook of Personality Disorders*, 2nd Ed. NY: Guilford Press.

Depue & Lenzenweger (2005). A neurobehavioral model of personality disorders. In D. Cicchetti (Ed.). *Developmental Psychopathology*. Wiley-Interscience.

Depue, R. & Morrone, J (2005). Neurobehavioral foundation of affiliative bonding: Implications for a human trait of affiliation. *Behavioral and Brain Sciences (Target Article)* 28:313-395.

Morrone-Strupinsky, J.V. & Depue, R.A. (2004). Differential relation of two distinct, film-induced positive

emotional states to affiliative and agentic extraversion. *Personality and Individual Differences*, 36: 1109-1126.

Zald, D. & Depue, R. (2001). Serotonergic modulation of positive and negative affect in psychiatrically healthy males. *Personality and Individual Differences* 30: 71-86.

Depue, R. & Lenzenweger, M. (2001). Neurobiology of personality disorders. In J Livesley (ed.), *Handbook of Personality Disorders*. New York: Guilford Press.

Morrone, J. & Depue, R. (2000). Film-induced incentive motivation and positive affect in relation to agentic and affiliative components of extraversion. *Personality and Individual Differences* 29: 199-216

Depue, R., & Collins, P. (1999). Neurobiology of the structure of personality: Dopamine, facilitation of incentive motivation, and extraversion. *Behavioral and Brain Sciences* (**Target Article**) 22: 491-569.

White, T. & Depue, R. (1999). Differential association of traits of fear and anxiety with norepinephrine- and dark-induced pupil reactivity. *Journal of Personality and Social Psychology* 77: 863-877.

Depue, R. (1999). Stability of personality and cognitive traits within the framework of neural plasticity. *Behavioral and Brain Sciences* 23: 681-684.

Luciana, M, Collins, P., & Depue, R. (1998). Opposing roles for dopamine and serotonin modulation of visuospatial delayed-response performance. *Cerebral Cortex* 8:218-226.

Depue, R., Luciana, M., & Collins, P. (1996). A neurobehavioral perspective on developmental psychopathology. In M.Lenzenweger & J. Haugaard (Eds.), *Developmental psychopathology*. New York: Oxford University Press.

Depue, R. (1996). Neurobiological foundations of personality and emotion: Implications for the personality disorders. In J. Clarkin & M. Lenzenweger (Eds.), *Theories of personality disorders*. New York: Guilford Press.

Depue, R. (1995). Neurobiological factors in personality and depression. *European Journal of Personality* 9: 238-265. [Special Issue on Personality and Depression].

Depue, R., Luciana, M., & Arbisi, P, Collins, P., & Leon, A. (1994). Dopamine and the structure of personality: Relation of agonist-induced dopamine D2 activity to positive emotionality. *Journal of Personality and Social Psychology* 67: 485-498.

Depue, R., & Zald, D. (1993). Biological and environmental processes in nonpsychotic psychopathology. In C.G. Costello (Ed.), *Handbook of psychopathology*. New York: Guilford Press.

Luciana, M., Depue, R., Arbisi, P. & Leon, A. (1992). Facilitation of working memory in humans by a D2 dopamine receptor agonist. *Journal of Cognitive Neuroscience* 4: 58-68.

Collins, P. & Depue, R. (1992). Neurobehavioral systems and affective disorders: A developmental perspective. In D. Cichetti (Ed.), *Advances in Developmental Psychopathology*, Vol. 4. New York: University of Rochester Press.

Depue, R. & Iacono, W. (1989). Neurobehavioral aspects of affective disorders. *Annual Review of Psychology* 40: 457-492.

Depue, R., & Spoont, M. (1986). Conceptualizing a serotonin trait: A dimension of behavioral constraint. *Annals of the New York Academy of Sciences* 487: 47-62.

Arbisi, P., Depue, R., Krauss, S., Spoont, M., Leon, A., Ainsworth, B. & Muir, R. (1994). Heat loss response to a thermal challenge in seasonal affective disorder. *Psychiatry Research* 52: 199-214.

Allen, J., Iacono, W., Depue, R., & Arbisi, P. (1993). Regional electroencephographic asymmetry in bipolar seasonal affective before and after exposure to bright light. *Biological Psychiatry* 33: 642-646.

Krauss, S., Depue, R., Arbisi, P. & Spoont, M. (1992). Behavioral engagement level, variability, and diurnal rhythm as a function of bright light in bipolar II seasonal affective disorder. *Psychiatry Research* 43: 147-160.

Spoont, M., Depue, R. & Krauss, S. (1991). Dimensional measurement of seasonal variation in mood and behavior. *Psychiatry Research* 39: 269-284.

Monroe, S. & Depue, R. (1991). Life stress and affective disorders. In J. Becker & J. Kleinman (Eds.), *Advances in Affective Disorders: Psychosocial aspects*. New York: LEA Press.

Depue, R., Arbisi, P., Krauss, S., Iacono, W., Leon, A., Muir, R., & Allen, J. (1990). Seasonal independence of low basal prolactin concentration and high spontaneous eye-blink rate in unipolar and bipolar seasonal affective disorder. *Archives of General Psychiatry* 47: 356-364.

Depue, R., Arbisi, P., Spoont, M., Leon, A., & Ainsworth, B. (1989). Dopamine functioning in the behavioral facilitation system and seasonal variation in behavior: Normal population and clinical studies. In N. Rosenthal (Ed.), *Seasonal affective disorder and phototherapy*. New York: Guilford Press.

Depue, R., Krauss, S., Spoont, M., Arbisi, P. (1989). Identification of unipolar and bipolar affective conditions in a university population with the General Behavior Inventory. *Journal of Abnormal Psychology* 98: 117-126.

Depue, R., Arbisi, P., Spoont, M., Krauss, S., Leon, A., Ainsworth, B. (1989). Seasonal and mood independence of low basal prolactin concentration in seasonal affective disorder. *American Journal of Psychiatry* 146: 989-995.

Arbisi, P., Depue, R., Spoont, M., Leon, A., Ainsworth, B. (1989). Heat loss response to thermal challenge in seasonal affective disorder. *Psychiatry Research* 28: 323-334.

Depue, R., Iacono, W., Muir, R., Arbisi, P. (1988). Effects of phototherapy on spontaneous eye-blink rate in seasonal affective disorder. *American Journal of Psychiatry* 145: 1457-1459.

Depue, R. & Klein, D. (1988). Identification of unipolar, bipolar, and hyperthymic affective conditions by the General Behavior Inventory: Implications for the behavioral trait in bipolar disorder. In E. Gershon & D. Dunner (Eds.), *Risk of disorder in the families of psychiatric patients*. New York: Raven Press.

Depue, R.A., Krauss, S., & Spoont, M. (1987). A two-dimensional threshold model of seasonal bipolar affective disorder. In D. Magnusson & A. Ohman (Eds.), *Psychopathology from an interactionist perspective*. New York: Academic Press.

Depue, R.A., & Fuhrman, M. (1986). Inventory identification of cyclothymia and dysthymia. In J.N. Butcher, & C.D. Spielberger (Eds.), *Advances in Personality Assessment*, Vol.6. New York:

Academic Press.

Klein, D., & Depue, R. (1986). Inventory identification of cyclothymia, IX. Validation in offspring of bipolar I patients. *Archives of General Psychiatry* 43: 441-445.

Klein, D., Depue, R. & Krauss, S. (1986). Social adjustment in the offspring of parents of bipolar affective disorder. *Psychopathology and Behavioral Assessment* 8: 355-366.

Goplerud, E., & Depue, R. (1985). Behavioral response to naturally-occurring stress in cyclothymes and dysthymes. *Journal of Abnormal Psychology* 94: 128-139.

Depue, R.A., & Monroe, S.M. (1986). Conceptualization and measurement of human disorder in life stress research: The problem of chronic disturbance. *Psychological Bulletin* 99: 36-51.

Depue, R.A., & Monroe, S. (1985). Social support and the disease process. In I. Sarason & B. Sarason (Eds.), *Social support: Theory, research, and applications*. Boston: Martinus Nijhoff Publishers.

Klein, D., Depue, R.A., & Slater, J. (1985). Cyclothymia in the adolescent offspring of parents with bipolar affective disorder. *Journal of Abnormal Psychology* 94: 115-127.

Depue, R.A., Kleiman, R., Davis, P., Hutchinson, M., & Krauss, S. (1985). The behavioral high-risk paradigm and bipolar affective disorder, VIII: Serum-free cortisol in GBI-selected nonpatient cyclothymes. *American Journal of Psychiatry* 142: 175-181.

Klein, D., & Depue, R. (1985). Obsessional personality traits and risk for bipolar affective disorder: An offspring study. *Journal of Abnormal Psychology* 94: 291-297.

Klein, D., & Depue, R.A. (1984). Continued impairment in persons at risk for bipolar affective disorder: Results of a 19-month follow-up study. *Journal of Abnormal Psychology* 93: 345-347.

Depue, R.A. (1983). Current research in biological psychopathology: Are we using a productive framework? *Behavioral and Brain Sciences* 6:130-133.

Depue, R.A., & Monroe, S. (1983). Psychopathology research. In M. Hersen, A.E. Kazdin, & A.S. Bellack (Eds.), *The clinical psychology handbook*. New York: Pergamon Press, 239-264.

Depue, R.A., & Evans, R. (1981). The psychobiology of depressive disorders: From pathophysiology to predisposition. In B.A. Maher (Ed.), *Progress in Experimental Personality Research*, Vol. 10. New York: Academic Press, 1-114.

Depue, R., Slater, J., Wolfstetter-Kausch, H., Klein, D., Goplerud, E., & Farr, D. (1981). A behavioral paradigm for identifying persons at risk for bipolar depressive disorders: A conceptual framework and five validation studies. *Journal of Abnormal Psychology* 90: 381-437. (Invited to be a **Monograph Supplement**).

Slater, J., & Depue, R. (1981). The contribution of environmental events and social support to serious suicide attempts in primary depressive disorder. *Journal of Abnormal Psychology* 90: 275-285.

Depue, R.A. (1979). *The psychobiology of the depressive disorders: Implications for the effects of stress*. New York: Academic Press.

Goplerud, E., & Depue, R. (1979). Affective symptoms, schizophrenia, and the conceptual ambiguity of postpsychotic depression. *Schizophrenia Bulletin* 5: 554-559.

Depue, R., & Monroe, S. (1979). The unipolar-bipolar distinction in the depressive disorders: Implications for stress-onset interaction. In R.A. Depue (Ed.), *The psychobiology of the depressive disorders: Implications for the effects of stress*. New York: Academic Press.

Depue, R., Monroe, S., & Shackman, S. (1979). The psychobiology of human disease: Implications for conceptualizing the depressive disorders. In R.A. Depue (Ed.), *The psychobiology of the depressive disorders: Implications for the effects of stress*. New York: Academic Press.

Depue, R.A., & Kleiman, R. (1979). Free cortisol as a peripheral index of central vulnerability to major forms of polar depressive disorders: Examining stress-biology interactions in subsyndromal high-risk persons. In R.A. Depue (Ed.), *The psychobiology of the depressive disorders: Implications for the effects of stress*. NY: Academic Press.

Depue, R., & Monroe, S. (1978). Learned helplessness in the perspective of the depressive disorders: Conceptual and definitional issues. *Journal of Abnormal Psychology* 87: 3-20. (Lead off article in Special Issue on Learned Helplessness & Depression).

Depue, R., & Monroe, S. (1978). The unipolar-bipolar distinction in the depressive disorders. *Psychological Bulletin* 85: 1001-1030.

Goplerud, E., & Depue, R. (1978). Reactive psychosis and the depressive disorders. *Comprehensive Psychiatry* 21: 431-445.

Goplerud, E., & Depue, R. (1978). The diagnostic ambiguity of postpsychotic depression. *Schizophrenia Bulletin* 4: 477-480

Depue, R., & Fowles, D.C. (1976). Electrodermal activity and schizophrenia: The problem of stimulus intensity modulation. *Psychological Bulletin* 83: 192-195.

Depue, R. (1976). An activity-withdrawal distinction in schizophrenia: Behavioral, clinical, brain damage, and psychophysiological correlates. *Journal of Abnormal Psychology* 85: 174-185.

Rimm, D., Snyder, J., Depue, R., Jannstead, M., & Armstrong, D. (1976). Assertive training versus rehearsal. *Behavior Research and Therapy* 14: 315-21.

Depue, R., & Woodburn, L. (1975). The disappearance of paranoid symptoms with chronicity. *Journal of Abnormal Psychology* 84: 84-86.

Depue, R., Dubicki, M.D., & McCarthy, T. (1975). Differential recovery of intellectual, associational, and psychophysiological functioning in withdrawn and active schizophrenics. *Journal of Abnormal Psychology* 84: 325-330.

Depue, R.A., & Fowles, D.C. (1974). Conceptual ability, response interference, and arousal in withdrawn & active schizophrenics. *Journal of Consulting & Clinical Psychology* 42: 509-518.

Depue, R., & Dubicki, M. (1974). Hospitalization and premorbid characteristics in withdrawn and active schizophrenics. *Journal of Consulting and Clinical Psychology* 42: 628-632.

Depue, R. (1974). The specificity of response interference to schizophrenia. *Journal of Abnormal Psychology* 83: 529-532.

Depue, R.A., & Fowles, D.C. (1973). Electrodermal activity as an index of arousal in schizophrenics. *Psychological Bulletin* 79: 233-238.

Editorial Boards:

Personality Neuroscience

Journal of Biology of Individual Differences and Personality (Section Head)

Frontiers in Personality Science and Individual Differences (Associate Editorial Board)

Invited Addresses:

International:

Social support and the disease process. NATO Advanced Research Workshop on Social Support and Disease, Bonas, France, September 19-23, 1983 (Coordinator: Irwin Sarason).

A two dimensional threshold model of seasonal bipolar affective disorder. Fourth International Symposium on Person-Environment Interaction Models: Psychopathology, University of Stockholm, Sweden, August 12-23, 1984 (Coordinators: David Magnusson & Arne Ohman)

Conceptualizing a serotonin trait: A dimension of behavioral constraint. International Conference on Psychobiology of Suicidal Behavior, organized by John Mann, Department of Psychiatry, Cornell Medical School, under the auspices of the New York Academy of Sciences, New York, September 18-20, 1985.

Identification of unipolar and bipolar affective conditions with the General Behavior Inventory. Special Symposium on Affective Disorders, under the auspices of the World Psychiatric Association, Athens, Greece, October 13-17, 1985 (Coordinator: Jules Angst).

Seasonal bipolar affective disorder: Behavioral and dopaminergic alterations. NIH Conference on Seasonal Affective Disorders, Washington, D.C., May 4-5, 1987 (Coordinator: Norman Rosenthal).

Seasonal affective disorder: Circadian and dopaminergic variation. NIH Conference on Seasonal Affective Disorders, Washington, DC., June 21-22, 1989 (Coordinator: Norman Rosenthal).

Dopamine and the structure of personality and emotion. Uppsala University Medical School, Uppsala, Sweden, July 18, 1990.

Dopamine and the structure of personality and emotion: A developmental perspective. Conference on personality development, Prague, Czechoslovakia, August, 1991.

Neurochemistry of emotion. Invited Keynote Address, International Society of Emotion Research, Pittsburgh, Pennsylvania, August, 1992.

A dynamic perspective on biology-environment interaction in neurobehavioral/emotional systems. Conference on Future Directions in Developmental Psychopathology, Cornell University, Ithaca, New York, March 22-23, 1993.

Neurochemistry of affiliative behavior. Invited Address, Conference on Social Behavior and Human Disease, Center for Advanced Behavioral Study, Palo Alto, California, March, 1993.

Neurochemistry of personality and emotion. Invited Keynote Address on *New Directions in Emotion Research*, International Society of Emotion Research, University of Cambridge, Cambridge, England, July 14-17, 1994. (Coordinator: Paul Eckman)

Human Behavioral Neurobiology: Personality and Emotion. Invited Address, Poznan University, Poznan, Poland, April 27-30, 1996

Neurobiology of Personality. Invited Address, European Congress of Psychology, Dublin, Ireland, July 6-11, 1997. (Coordinator: Petra Netter, University of Giessen, Germany)

Neurochemical modulation and the structure of personality. Invited address, Conference on Neurobehavioral Systems and Risk of Behavioral and Emotional Disorders (N=20), Aix-les-Bains, France, October 14-21, 1998 (Coordinator: Michel Le Moal).

Dopamine Facilitation of Association Between Context and An Incentive Motivational-Positive Affect State: The Role of Trait Differences in Tempament of Extraversion and Dopamine Functioning. Invited Address, European Congress of Psychology, Rome, Italy, July 4-11, 1999.

Neurobiology of Temperament and the Development of Personality and Personality Disorders. Invited Address and Research Workshop, University of Mexico Medical School, Mexico City, Mexico, March 26-28, 1999.

Dopamine Facilitation of Neural Plasticity and the Development of Temperament and Personality. Invited Address, European Congress of Psychology, Stockholm, Sweden, July 3-10, 2000.

Dopamine facilitation of neural plasticity and extraversion. Invited Address, Karolinska Institute, Stockholm, Sweden, July 4, 2000.

Neurobehavioral foundation of temperament and personality. Invited Lecture, University of Rome, Italy, June 11, 2001.

Dopamine and extraversion. Invited Symposium, European Congress of Psychology, Rome, Italy, June 2001.

Dopamine and opiates in the structure of personality. Keynote Address, German Psychological Society (Research Society), Berlin, Germany, September 2002

Minicourse in Psychobiology of personality, Department of Psychology, Humboldt University, Berlin, Germany, September 2002.

Neurobiology of affectionate behavior. Invited Lecture, University of Paris, France, November 2002.

Biology of temperament, Invited Research Lecture, University of Genoble, Grenoble, France June 2003

Society of Personality and Individual Differences. Keynote Address, Neurobehavioral foundation of affiliative bonding, Graz, Austria., July 2003

Small group of researchers on biobehavioral aspects of development. Invited Lecture, Neurobehavioral foundation of temperament, University of Paris, October, 2003.

Neurobehavioral foundation of affiliative reward and bonding. Invited Lecture, University of Marburg, Germany, November 21, 2003.

Neurobehavioral Dimensions of Personality and Psychosomatic Disorders. Keynote Address, Association of Behavioral Medicine, Jackson Hole, Wyoming, July 2004.

Small international conference on biology of personality organized by Dr. Canli at Suny at Stony Brook. Invited Address, Neurobehavioral differentiation between agentic extraversion and affiliation, Aug 2004

Neurobehavioral foundation of affiliative bonding. Invited Lecture, Psychobiology Research Group, University of Vienna, Austria, June 2005.

Neurobehavioral Aspects of social bonding and the trait of affiliation. Institute of Medicine, University of Rome, Italy, August 2005.

Polymorphism of the mu-opiate receptor and affiliative bonding in humans. Invited Address, Behavioral and Psychiatric Genetics Research Group, Oxford University, England, September 2005.

Neurobehavioral Dimensions of Personality and Personality Disorders in Psychosomatic Disorders. Invited Address, Behavioral Medicine Institutue, Uppsala University, Sweden, October 2005.

Invited lecture: Opiate reward as the basis of social bonding. Physiological and Behavioral Adaptation Group, University of Bordeaux II, Inserm Unit 345, Bordeaux, France, December 2005.

Invited lecture: On the nature of extraversion. Conference on Biology of Personality, Trier, Germany, June 2006.

Invited lecture. Opiate reward and social bonding as a trait. Conference on Biology of Social Bonding, Badenweiller, Germany, July 2006.

Invited lecture: Neurobehavioral foundation of affiliative bonding, University of Stockholm, Sweden, April, 2006.

Invited lecture: Polymorphism of the mu-opiate receptor and affiliative bonding in humans, Behavioral and Genetics Research Group, University of Prague, Czech Republic, September 2006.

Invited lecture: Opiate reward and dopamine reward and the structure of personality. University of Geissen, Germany, May 2006.

Invited lecture: Psychobiology of extraversion and social bonding. University of Copenhagen, Denmark, June 2007.

Invited lecture: Polymorphism of the mu-opiate receptor and affiliative bonding in humans, University of Rome, November, 30, 2007.

Invited lecture: On the nature of extraversion. Conference on Biology of Personality, Paris, France 2007.

Keynote Address: Social bonding and the soft touch of opiates, International Society of the Study of Individual Differences, Marburg, Germany, January 15, 2008.

Invited Lecture: Psychobiology of Social Bonding. Bordeaux University II, Department of Behavioral Genetics, March 13, 2009

Invited Address: Opiates, oxytocin, and vasopressin in the processes underlying social bonding. Beijing International Conference of Neuroscience, China, April 14-16, 2011.

Invited Address: Mu-opiate receptor gene polymorphism and social bonding. BIT Life Sciences 2nd Annual Congress of NeuroTalk, Dalian, China, May 22-25, 2011.

Interview: Dopamine and Optimism. Portugese National News Service, November, 2010.

Interview: Neural Foundation of Fear, Discovery News of London, November, 2010.

Invited in August 2011 to be a Visiting Professor on Epigenetics and Personality Disorders for any time period, Rune Andersen, Region Zealand, Psychiatric Research Unit, Roskilde, Copenhagen, Denmark.

Invited in May 2011 to discuss research specifically on psychobiology of social bonding by Social Neuroscience Group, Dr. Singer, Max Planck Institute of Evolutionary Biology, Leipzig.

Invited Address at Ottawa 2012 Internatiional Symposium on Biochemistry & Biophysics, specifically on Genetic, environmental, and epigenetic development of personality. Ottawa, Canada.

Invited Keynote Address, Gene and Environment Interaction, International Society in Studies of Personality Disorders, Copenhagen, Denmark. 2012.

Invited Symposium Chair, Gene and Environment Interaction, Endophenotypes and Epigenetics (The Interactional Brain), International Society in Studies of Personality Disorders, Copenhagen, Denmark. 2012

Invited Address on The relation of individual differences in personality traits and health risk and health behavior. Uppsala University, July, 2012.

Invited Address on A Multivariate, Neurobehavioral Model of Personality Disorders. Psychiatry Research Unit, University of Copenhagen, July 2013.

Invited Talk on Integration in clinical neuroscience. *International Integrated Clinical Neuroscience Forum*. New Delhi, India. September 14-15, 2013. Declined

Invited Talk, A Neurobehavioral Model of Personality Disorders, Psychiatry Research Unit, University of Copenhagen, July 2014.

Invited Talk, Genetic Contributions to Soft-Touch Induced Affiliative Processes, Personality Research Group, University of Giessen, Germany, July 2014.

Invited Talk, A Neurobehavioral Model of Social Bonding, Psychiatry Research Unit, University of Copenhagen, Copenhagen, Denmark, July 2015.

Invited Talk, Depue, R. Potential use of soft touch to activate mu-opiate-based consummatory reward in children. 23rd International Conference on Adolescent Medicine & Child Psychology, Berlin, Germany, Sept. 28-29 2017.

Invited Talk, Depue, R. Potential use of methylphenidate to enhance reward responding in extremely low cases of extraversion. An Insight into Innovative Approaches in Global Clinical Trials, 4th International Conference on clinical Trials, San Antonio, Sept. 11, 2017. Declined

Invited Talk, Depue, R. Pharmacological challenge protocols in personality research. International Conference on Psychopharmacology. Paris, France, Sept. 4-5, 2017. Declined

Invited Talk, Depue, R. Endorphins in consummatory and dopamine in incentive reward sensitivity. New Technologies, New Ideas, and New Future, 8th Annual World Congress of Neuro-Talk. Barcelona, Spain, May 22-24, 2017. Declined

Invited Conference. Depue, R. Dynamic Interaction of Neurochemical Pathways and Environmental Context in the Development of Individual Differences in Two Reward Systems Underlying the Structure of Temperament and Personality. Conference of 16 researchers on Individual Differences, London, March 2019.

National:

Invited Talk, Electrophysiology of Schizophrenia, Southern Illinois University, March 5, 1972.

Invited Talk, Schizophrenia Heterogeneity, SUNY Buffalo, February 22, 1975.

Invited Talk, Affective Disorders: Subsyndromal Forms, University of Washington Medical School, Seattle, March 21, 1975.

Invited Talk, Psychobiology of Affective Disorders, University of Wisconsin, Madison, January 23, 1977.

Invited Talk, Cyclothymia, University of Massachusetts, Amherst, MA, February, 4, 1977.

Persons at risk for bipolar affective disorder. *Distinguished Lecture Series*, Western Psychiatric Institute and Clinic, University of Pittsburgh Medical School, May 7, 1981.

Identification of cyclothymia. Symposium on Cyclothymia, American Psychiatric Association Convention, May 13, 1981. Coordinator: Hagop Akiskal, University of Tennessee Medical School.

Risk and bipolar affective disorder. Symposium on Persons at Risk for Psychopathology, American Psychological Association Convention, August 25, 1981. Coordinator: Loren Chapman, University of Wisconsin, Madison.

Persons at risk for bipolar affective disorder: biological studies. Department of Psychology, Indiana University, May, 1982.

Seasonality as a dimension in bipolar affective disorders. Symposium on Seasonal Affective Disorder, American Psychiatric Association, May, 1986. Coordinator: Norman Rosenthal, NIMH.

Identification of cyclothymia and dysthymia in the offspring of bipolar I parents. Implications for the behavioral trait in bipolar disorder. Symposium on relatives at risk for mental disorders, American Psychopathology Association, March, 1987. Coordinators: E. Gershon & D. Dunner.

Seasonal affective disorder and dopamine. Department of Psychology, University of Iowa, May, 1987.

Personality as a modifier of course in bipolar affective disorder. Conference on Psychobiology of Depression, MacArthur Foundation, Phoenix, Arizona, May, 1988. Coordinator: Robert Cloninger.

Dopamine and circadian alterations in seasonal affective disorder. Society for Bright Light Treatment and Circadian Rhythms, NIMH, Bethesda, MD, June 21, 1989. (Coordinator: Norman Rosenthal)

Neurobehavioral systems and affective disorders: A developmental perspective. Conference on Developmental Psychopathology of Affective Disorders, University of Rochester, Rochester, NY, October 16-20, 1990. (Coordinator: Dante Cicchetti).

Dopamine and the structure of personality and emotion. Colloquium, Department of Psychology,

University of Oregon, Eugene, Oregon, November 6, 1990.

Neurobiology of the structure of personality and emotion. Invited Keynote Address, Society of Research in Psychopathology, University of Colorado, Boulder, Colorado, November 29 - December 2, 1990.

Integration of biological, personality, and psychosocial factors in dysthymia. NIMH Special conference on Dysthymia, July 10-11, 1991. Coordinator: Robert Prien.

Cyclothymia: Weak regulation in the behavioral facilitation system. NIMH Workshop on Dysthymia and Cyclothymia, Bethesda, MD, April 26-27, 1993. (Coordinator: Hagop Akiskal).

Dopamine, personality, and psychopathology: A theoretical model of bipolar affective disorder. Invited Special Address, Department of Psychiatry, Rush Presbyterian-St. Lukes Hospital Medical School, Chicago, Illinois, April 28, 1993.

Dopamine and cognition in schizophrenia. Invited Participant. Conference on Schizophrenia and Cognitive Impairment. Mt. Sinai School of Medicine, New York City, March, 1995.

Neurobiology of Personality. Invited Address, Department of Medicine, Brookhaven National Laboratory, Long Island, NY, January 31, 1996.

Neurobiology and the Development of Temperament and Personality. Invited Address, Department of Psychology, University of Pennsylvania, Philadelphia, PA, April 15, 1997.

Neurobehavioral foundations of personality. Invited Address, Department of Psychology, Harvard University, April 12, 2000.

Dopamine and serotonin in the modulation of personality traits. Invited Address, Department of Psychiatry, University of Chicago, June 14, 2000.

Neurobehavioral foundation of personality and personality disorders. Invited Seminar, McDonnell Summer Institute of Cognitive Neuroscience, Dartmouth College, June 26-28, 2000.

Neurobehavioral foundation of temperament and personality: Implications for the personality disorders. Invited lecture, NIMH Conference on Borderline Personality Disorder, Rockefeller University, NYC, July 16-19, 2001.

Neurobiology of temperament. Invited Lecture, Personality Program, Department of Psychology, University of Iowa, October 2002.

Research group in emotion and cognition, Affective Neuroscience Lab, Department of Psychology. Invited Research Lecture, University of Colorado at Boulder, Sept 2003.

Small international conference hosted by Academy of Behavioral Medicine. Invited Address, Neurobiology of Negative Affect, Jackson Hole, Wyoming, June 2004

Invited lecture: Opiate reward, social bonding, and affiliative memory, Behavioral Neuroscience Group, University of Colorado, Boulder, July 2005.

Invited lecture: Opiates and social bonding. Behavioral Neurosciences, University of Michigan, Ann Arbor, October 2006.

Invited lecture: Psychobiology of interpersonal traits of extroversion and social closeness. Department of Psychology & Neuroscience, University of Colorado, 2009

Invited Keynote Address: Conference on Research in Personality. Neuroscience of Personality Lab, Washington University, St. Louis, 2009.

Invited Keynote Address: International Society of Individual Differences. Chicago, IL, 2009. Declined

Invited Address: Opiate receptor gene variants predict social bonding capacity. Attachment Disorders Lab, Medical School, UCSF, 2010.

Invited Talk on opiates and social bonding,. Affective Neuroscience Lab, Department of Psychology and Brain Sciences, University of Louisville, August 2014.

Invited Symposium Member, A Neurobehavioral Model of Personality Disorders, Cognitive, Affective and Neurobiological Relationships in Personality Disorders, Boston, MA, November 17-19, 2016.

<u>PhD Student</u>	<u>First Position</u>
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SUNY Buffalo

Dan Klein	<i>Assistant Professor</i> , Department of Psychology University of Illinois – Urbana
Eric Goplerud	<i>Assistant Professor</i> , Department of Psychology George Mason University
Judy Slater	Department of Psychology, Buffalo VA
Scott Monroe	<i>Assistant Professor</i> , Department of Psychology University of Oregon – Eugene

University of Minnesota

Paul Collins	<i>Assistant Professor</i> , Department of Psychology University of Oregon – Eugene
Michele Spoont	<i>Assistant Professor</i> , Department of Psychology University of Pittsburgh
Paul Arbisi	<i>Assistant Professor</i> , Department of Psychiatry University of Minnesota
Monica Luciana	<i>Assistant Professor</i> , Department of Psychology

University of Minnesota

Steve Krauss *Assistant Professor, Department of Psychology*

Villanova University

David Zald *Assistant Professor, Department of Psychology*

Vanderbilt University

Cornell University

Tara White *Assistant Professor, Department of Psychiatry & Behavioral Science, Brown University*

Janine Morrone *PostDoc, Department of Psychology, University of Arizona*

Sarah Moore *PostDoc, Child Development Institute, Genomics and Epigenetics Lab, University of British Columbia*

Yu Fu *PostDoc, Infant Development, Medical School, UCSD*
