

BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors in the order listed on Form Page 2. Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME McEwen, Bruce S.	POSITION TITLE Professor
eRA COMMONS USER NAME (credential, e.g., agency login)	

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)

INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY
Oberlin College, OH	A.B.	1959	Chemistry
Rockefeller University, NY	Ph.D.	1964	Cell Biology
Institute of Neurobiology, Goteborg, Sweden	Postdoc	1964-65	Neurobiology

Positions, Memberships, Professional Activities and Honors

1966 Assistant Professor, Dept. of Zoology, University of Minnesota (January-June)
 1966-71 Assistant Professor, The Rockefeller University
 1971-73 Associate Professor
 1973-81 Associate Professor with Tenure
 1981- Professor, The Rockefeller University, Head of the Harold & Margaret Milliken Hatch Laboratory of Neuroendocrinology
 1985-91 Associate Dean for Graduate and Postgraduate Studies
 1991-93 Dean, Graduate and Postgraduate Studies
 1992- Faculty Chair, Science Outreach Program
 1993-94 Associate Dean for Graduate and Postgraduate Studies
 1999- Alfred E. Mirsky Professor

Professional Activities

Member, Program Committee, Society for Neuroscience, 1973-74
 Member, Neuropsychology Study Section, NIMH, 1974-79
 Chairman, Neuropsychology Study Section, NIMH, 1975-79
 Program Co-Chairman, Winter Conf. on Brain Research, 1975
 Councilor, Society for Neuroscience, 1978-1982
 Secretary, Society for Neuroscience, 1983-1986
 Editorial responsibilities for many journals
 Member of NIMH, Board of Scientific Counsellors, 1987-91
 Chairman, NIMH Board of Scientific Counsellors, 1989-91
 Chairman, Public Information Committee, Society for Neuroscience 1990-93
 Member, Health and Behavior Network, MacArthur Foundation, 1990-95
 Member, MacArthur Fdn Socioeconomic Status and Health Research Network, 1996-
 President, International Society for Neuroendocrinology, 1992-1995
 President-elect, President, past-President, Society for Neuroscience, 1997-99
 Member, IOM Committee to write report on lesbian health, 1997-98
 Member, NRC Committee on evaluation of teaching materials, 1998-99
 Member, IOM Committee to write report on protection of US Forces in war, 1998-99
 Member, IOM Committee to write report on health and behavior, 1998-99
 Member, NRC Board of Neuroscience and Behavioral Health, 2001-2006
 Member, Board of Governors, New York Academy of Sciences, 2002- 2010
 Vice Chair, Board of Governors, New York Academy of Sciences, 2008-2010
 Chair, Government and Public Affairs Committee, Society for Neuroscience, 2009-

Honors

Fellow of AAAS, '86; American Academy of Arts and Sciences '94; New York Academy of Sciences '98
 Member, National Academy of Sciences, 1997

Member, Institute of Medicine, 1998
Jacob Javits Award, NINCCDS, 1995; MERIT Award, NIMH, 1994
Honorary Sc.D. degree: Oberlin College, 2000
President's Award, American Psychosomatic Society, 2001
Dale Medal, British Endocrine Society, 2001
Lifetime Achievement Award, International Soc. Psychoneuroendocrinology, 2001
Award for Distinguished Scientific Contributions, American Psychological Association, 2003
Honorary ScD degree, University of Michigan, 2005
Karl Spencer Lashley Award, American Philosophical Society, 2005
Pat Goldman Rakic Award, NARSAD, 2005
Pasarow Foundation Neuropsychiatry Award 2006
Marius Tausk Visiting Professor, University of Leiden, 2006
Segefalk Award, University of Lund, Sweden, 2007
Gold Medal, Society of Biological Psychiatry, 2009
Ipsen Foundation, Neuroplasticity Prize, 2010
Edward M. Scolnick Prize in Neuroscience, McGovern Institute for Brain Research, MIT 2011

C. Selected Peer-reviewed Publications (selected from more than 1000 publications)

- McEwen, B.S. (1999) Stress and hippocampal plasticity. Annu. Rev. Neurosci. 22:105-122.
- Conrad, C.D., Magarinos, A.M., LeDoux, J.E. and McEwen, B.S. (1999) Repeated restraint stress facilitates fear conditioning independently of causing hippocampal CA3 dendritic atrophy. Behav. Neurosci. 113:902-913.
- Pawlak, R., Magarinos, A.M., Melchor, J., McEwen, B., and Strickland, S. (2003) Tissue plasminogen activator in the amygdala is critical for stress-induced anxiety-like behavior. Nature Neurosci. 6:168-174.
- MacQueen, G.M., Campbell, S., McEwen, B.S., Macdonald, K., Amano, S., Joffe, R.T., Nahmias, C., and Young, L.T. Course of illness, hippocampal function, and hippocampal volume in major depression. Proc. Natl. Acad. Sci. USA 100:1387-1392 (2003).
- Pham, K., Nacher, J., Hof, P.R., and McEwen, B.S. (2003) Repeated restraint suppresses neurogenesis and induces biphasic PSA-NCAM expression in the adult rat dentate gyrus. Eur. J. Neurosci. 17:879-886.
- Wood, G.E., Young, L.T., Reagan, L.P., Chen, B., and McEwen, B.S. (2004) Stress-induced structural remodeling in hippocampus: Prevention by lithium treatment. Proc. Natl. Acad. Sci. USA 101:3973-3978.
- Liston, C., Miller, M.M., Goldwater, D.S., Radley, J.J., Rocher, A.B., Hof, P.R., Morrison, J.H., and McEwen, B.S. Stress-induced alterations in prefrontal cortical dendritic morphology predict selective impairments in perceptual attentional set-shifting. J. Neurosci. 26:7870-7874 (2006).
- Wood, G.E., Norris, E.H., Waters, E., Stoldt, J.T., and McEwen, B.S. Chronic immobilization stress alters aspects of emotionality and associative learning in the rat. Behav. Neurosci. 122:282-292 (2008).
- Liston, C., McEwen, B.S. and Casey, B.J. Psychosocial stress reversibly disrupts prefrontal processing and attentional control. Proc. Natl. Acad. Sci. USA 106:912-917 (2009). PMC2621252
- Shansky, R.M., Hamo, C., Hof, P.R., McEwen, B.S., and Morrison, J.H. Stress-induced dendritic remodeling in the prefrontal cortex is circuit specific. Cerebral Cortex (2009).
- Roosendaal, B., McEwen, B.S. and Chattarji, S. Stress, memory and the amygdala. Nature Rev. Neurosci. 10:423-433 (2009).
- Lupien, S.J., McEwen, B.S., Gunnar, M.R. and Heim, C. Effects of stress throughout the lifespan on the brain, behaviour and cognition. Nat. Rev. Neurosci. 10:434-445 (2009).
- Bloss, E.B., Hunter, R.G., Waters, E.M., Munoz, C., Bernard, K., and McEwen, B.S. Behavioral and biological effects of chronic S18986, a positive AMPA receptor modulator, during aging. Exp. Neurol. 210:109-117 (2008).
- McEwen, B.S., Eiland, L., Hunter, R.G., and Miller, M.M. Stress and anxiety: Structural plasticity and epigenetic regulation as a consequence of stress. Neuropharmacology (2011).
- Hunter, R.G., Murakami, G., Dewell, S., Seligsohn, M., Baker, M.E.R., Datson, N.A., McEwen, B.S., and Pfaff, D.W. Acute stress and hippocampal histone H3 lysine 9 trimethylation, a retrotransposon silencing response. Proc. Natl. Acad. Sci. 109:17657-17662 (2012).
- Rao, R.P., Anikumar, S., McEwen, B.S., and Chattarji, S. Glucocorticoids protect against the delayed behavioral and cellular effects of acute stress on the amygdala. Biol. Psychiat. 72:466-475 (2012).

- Maleki, N., Becerra, L., and Brawn, J., McEwen, B., Burstein, R., and Borsook, D. Common hippocampal structural and functional changes in migraine. Brain Struct. Funct. 218:903-912 (2013). PMID: PMC3711530
- McCall, T., Weil, Z.M., Nacher, J., Bloss, E.B., El Marouf, A., Rutishauser, U., and McEwen, B.S. Depletion of polysialic acid from neural cell adhesion molecule (PSA-NCAM) increases CA3 dendritic arborization and increases vulnerability to excitotoxicity. Exper. Neurol. 241:5-12 (2013). PMID: PMC3570583
- McEwen, B.S. Hormones and the social brain. Science 339:279-280 (2013).
- Sokolowski, M.B., Boyce, W.T., and McEwen, B.S. Scarred for life? New Scientist 28-30 (2013).
- Hunter, R.G. and McEwen, B.S. Stress and anxiety across the lifespan: structural plasticity and epigenetic regulation. Epigenomics 5:177-194 (2013).
- Bloss, E.B., Puri, R., Yuk, F., Punsoni, M., Hara, Y., Janssen, W.G., McEwen, B.S., and Morrison, J.H. Morphological and molecular changes in aging rat prelimbic prefrontal cortical synapses. Neurobiol. Aging 34:200-210 (2013). PMID: PMC3483440
- Gray, J.D., Milner, T.A., and McEwen, B.S. Dynamic plasticity: The role of glucocorticoids, brain-derived neurotrophic factor and other trophic factors. Neuroscience 239:214-227 (2013).
- Burghardt, N.S., Sigurdsson, T., Gorman, J.M., McEwen, B.S., and LeDoux, J.E. Chronic antidepressant treatment impairs the acquisition of fear extinction. Biol. Psychiat. 73:1078-1086 (2013). PMID: PMC3610782
- Litvin, Y., Phan, A., Hill, M.N., Pfaff, D.W., and McEwen, B.S. CB1 receptor signaling regulates social anxiety and memory. Genes, Brain and Behavior 12:479-489 (2013).
- McEwen, B.S. and Morrison, J.H. The brain on stress: Vulnerability and plasticity of the prefrontal cortex over the life course. Neuron 79:16-29 (2013). PMID: PMC3753223
- Karatsoreos, I.N. and McEwen, B.S. Annual Research Review: The neurobiology and physiology of resilience and adaptation across the life course. J. Child Psychol. & Psychiat. 54:337-347 (2013).
- Datson, N.A., van den Oever, J.M.E., Korobko, O.B., Magarinos, A.M., de Kloet, E.R., and McEwen, B.S. Previous history of chronic stress changes the transcriptional response to glucocorticoid challenge in the dentate gyrus region of the male rat hippocampus. Endocrinol. 154:3261-3272 (2013). PMID: PMC3749472
- McEwen, B.S. The brain on stress: Toward an integrative approach to brain, body, and behavior. Perspectives on Psychol. Sci. 8:673-675 (2013).
- Bizik, G., Picard, M., Nijjar, R., Tourjman, V., McEwen, B.S., Lupien, S.J. and Juster, R.-P. Allostatic load as a tool for monitoring physiological dysregulations and comorbidities in patients with severe mental illnesses. Harvard Rev. Psychiat. 21:296-313 (2013).