

Gary G. Berntson

Office Address: Department of Psychology
Ohio State University
1835 Neil Avenue
Columbus, Ohio 43210
614-292-1749 FAX 614-688-4733
EMAIL: berntson@osu.edu

Home Address: 114 St. Julien St
Worthington, OH 43085
614-468-1289 FAX 614-547-7018

Birth Date: June 16, 1945, Minneapolis, MN

Education: B.A. - University of Minnesota, 1968
Majors in Biology & Psychology
Ph.D. - University of Minnesota, 1971
Psychobiology & Life Sciences
Postdoc - Rockefeller University, 1971-1973

Professional Positions:

1968-1971	NSF Predoctoral Fellow: University of Minnesota (sponsor: Warren W. Roberts)
1971-1973	NSF & USPHS Postdoctoral Fellow: Rockefeller Univ. (sponsor: Neal E. Miller)
1973-1977	Assistant Professor, Department of Psychology, Ohio State University
1977-1981	Associate Professor, Department of Psychology, Ohio State University
1984-1995	Affiliate Scientist, Yerkes Regional Primate Res. Cntr. Emory University, Atlanta
1982-2010	Professor, Department of Psychology, Ohio State University
1983-2010	Professor, Department of Pediatrics, Ohio State University
1988-2010	Professor, Department of Psychiatry, Ohio State University
1989-2010	Faculty, Neuroscience Graduate Program, Ohio State University
2005-fall qtr	Visiting Scholar, University of Chicago
2010-present	Professor Emeritus of Psychology, Psychiatry & Pediatrics Ohio State University
2010-present	Professor of Psychology Ohio State University
2010-11 (fall qtr)	Visiting Scholar, University of Chicago

Research Interests

- ▶ functional organization of brain mechanisms underlying cognitive and behavioral processes
- ▶ multiple levels of organization and analysis in neurobehavioral systems
- ▶ top-down and bottom-up processes in neurobehavioral networks
- ▶ social processes as emergent properties of complex networks
- ▶ social neuroscience of health
- ▶ emergence and reductionism

Teaching Activities and Experience

- ▶ Introductory Psychology
- ▶ Learning and Motivation
- ▶ Drugs and Behavior
- ▶ Biopsychology
- ▶ History of Psychology
- ▶ Psychophysiology
- ▶ Survey of Behavioral Neuroscience I, II, III
- ▶ Instrumentation Methodology
- ▶ Cognitive Neuroscience
- ▶ Social Neuroscience

Extramural Advisory Panels

- ▶ Member, NIMH MSM-2 (Biology & Neuroscience) Study Section, 1988-91
- ▶ NIH (OPRR) site visit committee, internal review of NINDS, January, 1989
- ▶ NIA (NSP-A) site visit committee, Boston VA Hospital, October, 1991
- ▶ Member, NSF Fellowship Review Committee, 1991-1995
- ▶ Member, NIMH PYB (Psychobiology) Study Section, 1991-1993
- ▶ Chair, NIMH Special Review committee, 1992, 1993
- ▶ American Heart Association (Ohio Affiliate), Grant Review Committee, 1994
- ▶ NIMH, site visit committee, NY State Psychiatric Institute, 1994
- ▶ Chair, NIMH Special Review committee, ZMH1 NRB-Q, 1995
- ▶ NICHD, Special intramural site visit committee (December 8-10, 1996).
- ▶ Reviewer, International Science and Technology Center (US Dept. State, May 1999)
- ▶ Chair, *Society for Psychophysiological Research* Committee on HRV, 1996-1998
- ▶ Ad hoc member NIH review panel RPHB-1, Oct 2000.
- ▶ Invited Contribution to NAS, Committee to Review the Polygraph. April, 2001.
- ▶ Member NIH review panel ZMH1 BRB-S, RFA on Social Neuroscience, March 2002.
- ▶ Ad hoc member NIH review panel RPHB-4, 2001-2003.
- ▶ Ad hoc reviewer, NSF B/START program, 2002-2003.
- ▶ Member NIH review panel SPIP (RPHB-4), 2003-2005.
- ▶ Grant review, US Air Force, May 2005
- ▶ Grant review, Austrian Science Fund, Sept 2006
- ▶ Psychology Grant review panel, Portuguese Science Foundation (FCT), 2011-2013
- ▶ Science Consultant, FAST program, Department of Homeland Security/Battelle Memorial Institute, 2010-2011.
- ▶ Special Government Employee (SGE) Defense Science Board- Task Force on Predicting Violent Behavior, 2010-2012

Awards/Recognitions

- ▶ NSF Predoctoral Fellowship, 1968-1971
- ▶ NSF Postdoctoral Fellowship, 1971
- ▶ NIMH Postdoctoral Fellowship (F02MH050361), 1972-1973
- ▶ Distinguished Scholar Award, Ohio State Univ., 1992
- ▶ Distinguished Teaching Award, Dept. of Psychology, OSU, 1991-1992
- ▶ Ohio House of Representatives special recognition for scholarship, 1992
- ▶ Fellow, American Association for the Advancement of Science, 1994-
- ▶ Fellow, International Organization for Psychophysiology, 2003
- ▶ National Academy of Sciences, PNAS most cited paper in Psychology, 4/02/04
- ▶ Fellow, Association for Psychological Science, 2006-
- ▶ Fellow, Midwestern Psychological Association, 2010-
- ▶ Paul D MacLean Award in Neuroscience from American Psychosomatic Society, 2013

Society Offices/Editorial Service/Professional Activities

- ▶ Chief Associate Editor, *Physiological Psychology*, 1978-1985
- ▶ Acting Editor, *Physiological Psychology*, 1983-1985
- ▶ Associate Editor, *Psychophysiology*, 1994-1998
- ▶ Co-Editor, *Social Neuroscience* Book Series, MIT Press, 2000-present
- ▶ Secretary, *Society for Psychophysiological Research*, 2006-2009
- ▶ Board of Directors, *Society for Psychophysiological Research*, 2006-2009
- ▶ Associate Editor, *Emotion Review*, 2007-present
- ▶ Editorial Board, *International Journal of Psychophysiology*, 2007-present
- ▶ Science Advisor, FAST program, Department of Homeland Security/
Battelle Memorial Institute, 2010-2011
- ▶ President, *Society for Psychophysiological Research*, 2010-2011
- ▶ Editorial Board, Behavioral Sciences (MDPI, Basel Switzerland) 2010- present
- ▶ SGE (Special Government Employee) Defense Science Board- Task Force on Predicting
Violent Behavior, 2010-2012
- ▶ Past-President and board member, *Society for Psychophysiological Research*, 2011-2012

Extramural Research Grants:

Principal Investigator (Individual Postdoctoral Fellowship) NIMH F02 MH050361
"Pontine and Medullary System for Aggression" (FY 1973).

Principal Investigator on NIMH grant (MH25630) entitled "Organization of lower
brainstem behavioral systems." (7/1/74-6/30/75; \$6,828).

Co-Investigator (Don Meyer, PI) on NICHD training grant entitled "Developmental
Psychobiology" (7/1/75-6/30/79; \$190,000).

Principal Investigator on grant from PM entitled "Effects of nicotine on pain
sensitivity and motivated behaviors" (7/1/76-8/30/82; \$110,000).

Principal Investigator on NICHD grant (HD015865) entitled "Learning in
brain-damaged human infants and animals." (7/1/81-6/30/83; \$90,116).

Co-Investigator (William Zipf, PI) on NIH grant (AM29837) entitled "Pancreatic
polypeptide in patients with altered appetite". (1/1/83-12/31/87; \$157,000).

Co-Investigator (Francis Wright, PI) on March of Dimes grant entitled
"Electrophysiological correlates of information processing in chronic hypoxia."
(3/1/84-2/28/88; \$54,000).

Principal Investigator (with Sarah Boysen) on NIH Biomedical Sciences Research
Support Grant (SO7 RR97074-22/23) entitled "Psychophysiological approaches
To attentional processes in children and chimpanzees" (3/1/86-3/31/88; \$61,451).

Co-Principal Investigator (with John Bruno) on Ohio Heart Association grant (C-88-09)
entitled "Catecholamine control of cardiovascular development". (7/1/88-6/30/89;
\$22,265).

Co-Principal Investigator (with Sarah Boysen) on NSF grant (IBN-8820027) entitled
"Numerical competence in the chimpanzee." (2/15/89-7/31/90; \$100,000).

Co-Investigator (Research Support of Yerkes Regional Primate Research Center) NIH
P51RR00165-29/30 "Psychophysiological & Electrophysiological Indices of
Cognition" (FY 1989-1990; \$77,157)

Co-Investigator (Research Support of Yerkes Regional Primate Research Center) NIH
P51RR00165-31 to 34. "Numerical Competence and Reasoning in the
Chimpanzee" (FY 1991-1994; \$239,868)

Principal Investigator (with Sarah Boysen) on NIMH grant (MH 45460) entitled
"Vocal perception- Physiological and neuroimaging approaches."
(9/30/89-8/31/90; \$32,739).

- Co-Principal Investigator (with Sarah Boysen) on NSF grant (IBN-9022355) entitled "Numerical Competence in the Chimpanzee". (3/1/91-5/31/93; \$180,000).
- Co-Investigator (John Cacioppo, PI) on NSF grant (SBR-9211483) entitled "Bivalent Evaluative Processes Underlying Attitudes." (7/1/92-6/30/95; \$196,077).
- Co-Principal Investigator (with Sarah Boysen) on NSF grant (IBN-9222367) entitled "Numerical Competence in the Chimpanzee (Pan troglodytes)". (3/1/93-8/28/94; \$67,665).
- Co-Investigator (John Cacioppo, PI) on NIMH training grant (T32-MH19728) entitled "Social Psychophysiology Training Grant." (9/1/92-8/31/97; \$538,040).
- Co-Investigator (John Cacioppo, PI) on NSF grant (SBR-9511249) entitled "An event related brain potential analysis of affect and attitudes" (7/1/92-6/30/95; \$144,500).
- Principal Investigator (with Sarah Boysen) on NIMH grant (MH 49834) entitled "Evaluative Processes." (4/1/94-9/30/96; \$312,131).
- Principal Investigator (with William Zipf) on NCCR grant (M01RR000034-37) Prader-Willi syndrome—Benzodiazepines and food intake patterns (7/1/94-6/30/97; \$100,527).
- Co-Investigator (John Cacioppo, PI) on NIA project (PO1-AG11585) "Cardiac reactivity and cellular immune response to stress." (7/1/94-6/30/98; \$607,034 total direct costs/ Project 3 of the Program Project Grant "Stress, aging, and neuroendocrine-immune changes", Ronald Glaser, Project Director).
- Principal Investigator (with Martin Sarter) on NHLBI grant (HL 54428) entitled "Psychophysiology and Anxiogenesis" (1/1/95-12/31/98; \$344,074)
- Co-Principal Investigator (with Sarah Boysen) on NIMH grant (MH 49834) entitled "Evaluative Processes". (7/1/96-6/30/98; \$275,639 tdc).
- Principal Investigator (with Martin Sarter) on NHLBI grant (HL 54428) entitled "Psychophysiology and Anxiogenesis" (9/30/99-9/29/03; \$618,832)
- Co-Investigator on NIH/NIA Center Grant (P50 DE12749; Ron Glaser, PI) entitled A Center for Stress and Wound Healing (9/25/99-8/31/04; \$9,992,377).
- Co-Investigator on NIH/NIA (PO1 AG016321). Personality traits/states that determine wound healing rates. Phillip Marucha, Project Director (9/30/99-8/31/04, \$1,651,837 total direct costs)
- Co-Investigator (with Courtney DeVries, PI) on NHLBI (R01HL080249). Effects of Social Factors on Cardiac Arrest Outcome. (7/01/06-6/30/10, 1,444,800 tc)

Principal Investigator on Oxytocin Pilot Project (12/1/2007- 10/30/2008; \$30,000 tc), Subaward from Templeton Foundation. *Expanding spiritual knowledge through science: Chicago multidisciplinary research network for neuroscientific, population-based studies of sociality, spirituality, and health.* (U Chicago, JT Cacioppo, PI)

Principal Investigator on Grant from University of Chicago (22000018: *Working beyond boundaries* ; JT Cacioppo; Subaward No. 36111) Oxytocin Pilot Project (9/1/2008- 8/31/2009; \$30,000 tc),

Co-Investigator (Vladimir Sloutsky, PI). On 1R01HD056105. *Cross-modal processing and lexical development.* (09/10/2009 - 08/31/2011).

Co-Investigator (Gün Semin, PI). *The body in embodiment: Specifying the role of peripheral input in grounded cognition.* Netherlands Organization for Scientific Research, Social Sciences (ORA Reference No. ORA-10-108; NWO Reference No: 464-10-010. (2011-2014; total grant €650.000; Utrecht Subgrant €250.000).

Co-Principle Investigator (with John Cacioppo) on a grant from Templeton Foundation (#24426). *Complexity, emergence and reductionism: Toward a multilevel Integrative analysis of the brain and cognition.* (2011-2013, \$160,000.)

PUBLICATIONS

Books:

Cacioppo, J. T., Tassinary, L. G., & Berntson, G. G. (2000). *Handbook of Psychophysiology*. (2nd Edition). Cambridge, UK: Cambridge University Press.

Cacioppo, J. T., Berntson, G. G., Adolphs, A., Carter, C. S., Davidson, R. J., McClintock, M. K., McEwen, B. S., Meaney, M. J., Schacter, D. L., Sternberg, E. M., Suomi, S. S., & Taylor, S. E. (2002). *Foundations in social neuroscience*. Cambridge, MA: MIT Press

Cacioppo, J. T. & Berntson, G. G. (2004). *Essays in social neuroscience*. Cambridge, MA: MIT Press

Cacioppo, J. T. & Berntson, G. G. (2005). *Social Neuroscience*. NY: Psychology Press.

Cacioppo, J. T., Tassinary, L. G., & Berntson, G. G. (2007). *Handbook of Psychophysiology* (3rd Edition). Cambridge, UK: Cambridge University Press.

Berntson, G. G. & Cacioppo, J. T. (2009). *Handbook of Neuroscience for the Behavioral Sciences*. Hoboken, NJ: John Wiley & Sons

Editorials/Reviews/Comments/Short pieces

Berntson, G. G. (1979). Cerebellar contributions to response selection. Comments on Adams, D. B., Brain Mechanisms for Offense, Defense and Submission. *The Behavioral and Brain Sciences*, 2, 242.

Berntson, G. G. (1996). Review of Learning and Physiological Regulation, by Dworkin, B. R. (Chicago: Univ Chicago Press, 1993, p215), *Psychophysiology*, 33, 302-305.

Berntson, G. G., & Sarter, M. (1996). What is a psychology journal? What is a psychology paper? *APS Observer*, 9, 14-15.

Sarter, M. & Berntson, G. G. (1999). Tapping artificially into natural talents. *Trends in Neuroscience*, 22, 301-302.

Berntson, G. G. (2002). Truth or Lie: The Science and Politics of Polygraphy. A review of *A Tremor in the Blood: Uses and Abuses of the Lie Detector*, by Lykken, D. T. (Reading, Mass: Perseus Books, 2nd edition, 1998, 333 pp.), *Contemporary Psychology*, 47, 132-134.

Sarter, M. & Berntson, G. G. (2004). Underconstrained thalamic activation + underconstrained top-down modulation of cortical input processing = underconstrained perceptions. *Behavioral and Brain Sciences*, 27, 803-804.

Cacioppo, J. T., Berntson, G. G., & Semin, G. R. (2005). Scientific symbiosis represents the mutual benefit of iteratively adopting the perspective of realism and instrumentalism. *American Psychologist*, 60, 347-348.

- Berntson, G. G., & Cacioppo, J. T. (2006). Reciprocal determinism. In N. J. Salkind (Ed.), *Encyclopedia of human development*. (vol 3, pp 1066-1068). Thousand Oaks, CA: Sage Press.
- Berntson, G.G., & Cacioppo, J.T. (2008). Nonadditive determinism. In W. A. Darity (Ed.), *International Encyclopedia of the Social Sciences* (2nd Ed., pp 330-331), Farmington Hills, MI: McMillan/Thomson Gale.
- Cacioppo, J. T. & Berntson, G. G. (2008). Social neuroscience. In W. A. Darity (Ed.), *International Encyclopedia of the Social Sciences* (2nd Ed.), Farmington Hills, MI: McMillan/Thomson Gale.
- Berntson, G. G., & Cacioppo, J. T. (2009). The autonomic nervous system. In D. Sander & K. Scherer (Eds.), *Oxford Companion to Emotion and the Affective Sciences*. (pp 65-67). New York: Oxford University Press.
- Berntson, G.G., & Cacioppo, J.T. (2009). Evaluative processing. In D. Sander & K. Scherer (Eds.), *Oxford Companion to Emotion and the Affective Sciences*. (pp 158). New York: Oxford
- Berntson, G. G., & Cacioppo, J. T. (2009). Peripheral psychophysiology. In D. Sander & K. Scherer (Eds.), *Oxford Companion to Emotion and the Affective Sciences*. (pp 301-304). New York: Oxford University Press.
- Cacioppo, J. T. & Berntson, G. G. (2009). Social neuroscience. In D. Sander & K. Scherer (Eds.), *Oxford Companion to Emotion and the Affective Sciences*. (pp 375-376). New York: Oxford University Press.
- Berntson, G. G., & Cacioppo, J. T. (2009). Somatovisceral feedback. In D. Sander & K. Scherer (Eds.), *Oxford Companion to Emotion and the Affective Sciences*. (pp 381-382). New York: Oxford University Press.
- Cacioppo, J. T., & Berntson, G. G. (2009). Social neuroscience. In H. Reis & S. Sprecher (Eds.), *Encyclopedia of human relationships*. (pp 1552-1554). Thousand Oaks, CA: Sage.
- Cacioppo, J. T., Berntson, G. G., & Aue, T. (2010). Social psychophysiology. In I. Weiner & E. Craighead (Eds.), *Corsini Encyclopedia of Psychology* (4th Ed.), NY: Wiley
- Cacioppo, J. T., Berntson, G. G., & Waytz, A. (2010). Social neuroscience. In I. Weiner & E. Craighead (Eds.), *Corsini Encyclopedia of Psychology* (4th Ed.),. New York: Wiley.
- Cacioppo, J. T., Berntson, G. G., Ernst, J. M., & Ito, T. A. (2010). Social neuroscience. In A. E. Kazdin (Ed.), *Encyclopedia of psychology*. (pp. 353-355). New York: Oxford.
- Berntson, G. G., Norman, G. J., & Cacioppo, J.T. (2011). Laterality and evaluative bivalence: A neuroevolutionary perspective. *Emotion Review*, 3, 344-346.
- Norman, G.J., Berntson, G.G., Cacioppo, J.T. (2011). Social Neuroscience. Oxford Bibliographies Online. In Press

Articles

1. Burkhart, D. A. & Berntson, G. G. (1972). Light adaptation and excitation: Lateral spread of signals within the frog retina. *Vision Research*, *12*, 1095-1111.
2. Berntson, G. G. (1972). Blockade and release of hypothalamically and naturally elicited aggressive behaviors in cats following midbrain lesions. *Journal of Comparative and Physiological Psychology*, *81*, 541-554.
3. Berntson, G. G. & Leibowitz, S. F. (1973). Biting attack in cats: Evidence for central muscarinic mediation. *Brain Research*, *51*, 366-370.
4. Berntson, G. G. (1973). Attack, grooming and threat elicited by stimulation of the pontine tegmentum in cats. *Physiology & Behavior*, *11*, 81-87.
5. Berntson, G. G., Potolicchio, S. J. & Miller, N. E. (1973). Evidence for higher functions of the cerebellum: Eating and grooming elicited by cerebellar stimulation in cats. *Proceedings of the National Academy of Science*, *70*, 2497-2499.
6. Ball, G. G., Micco, D. J. & Berntson, G. G. (1974). Cerebellar stimulation in the rat: Complex stimulation-bound oral behaviors and self-stimulation. *Physiology & Behavior*, *13*, 123-127.
7. Berntson, G. G. & Hughes, H. C. (1974). Medullary mechanisms for eating and grooming behaviors in the cat. *Experimental Neurology*, *44*, 255-265.
8. Berntson, G. G. & Beattie, M. S. (1975). Functional differentiation within hypothalamic behavioral systems in the cat. *Physiological Psychology*, *3*, 183-188.
9. Berntson, G. G., Hughes, H. C. & Beattie, M. S. (1976). A comparison of hypothalamically induced biting attack with natural predatory behavior in the cat. *Journal of Comparative and Physiological Psychology*, *90*, 167-178.
10. Berntson, G. G. & Hughes, H. C. (1976). Behavioral characteristics of grooming induced by hindbrain stimulation in the cat. *Physiology & Behavior*, *17*, 165-168.
11. Berntson, G. G., Beattie, M. S. & Walker, J. M. (1976). Effects of nicotinic and muscarinic compounds on biting attack in the cat. *Pharmacology, Biochemistry & Behavior*, *5*, 235-239.
12. Berntson, G. G. & Micco, D. J. (1976). Organization of brainstem behavioral systems. *Brain Research Bulletin*, *1*, 471-483.
13. Coy, D. H., Kastin, A. J., Shalley, A. V., Orin, O., Caron, N. G., Labrie, F., Walker, J. M., Fertel, F., Berntson, G. G. & Sandman, C. A. (1976). Synthesis and opiod activities of stereoisomers and other D-amino acid analogs of methionine-enkephalin. *Biochemical, Biophysical Research Communications*, *73*, 632-637.

14. Berntson, G. G., Ault, R. T. & Walker, J. M. (1977). A simple and inexpensive pulse-pair stimulator. *Behavioral Research Methods and Instrumentation*, 9, 18-21.
15. Walker, J. M., Berntson, G. G., Sandman, C. S., Coy, D. H., Shalley, A. V. & Kastin, A. J. (1977). An analog of enkephalin having prolonged opiate like effects *in vivo*. *Science*, 196, 85-87.
16. Berntson, G. G. & Walker, J. M. (1977). Effects of opiate receptor blockade on pain sensitivity in the rat. *Brain Research Bulletin*, 2, 157-159.
17. Berntson, G. G. & Torello, M. W. (1977). Expression of Magnus tonic neck reflexes in distal muscles of prehension in normal adults. *Physiology & Behavior*, 19, 585-587.
18. Walker, J. M., Sandman, C. A., Berntson, G. G., McGivern, R. F., Coy, D. H. & Kastin, A. J. (1977). Endorphin analogs with potent and long lasting analgesic effects. *Pharmacology, Biochemistry & Behavior*, 7, 543-548.
19. Berntson, G. G., Paulucci, T. S. & Torello, M. W. (1978). An atlas of the deep cerebellar nuclei and subtentorial brainstem in the cat, with compensation for skull size. *Brain Research Bulletin*, 3, 475-492.
20. Berntson, G. G. & Paulucci, T. S. (1979). Fastigial modulation of brainstem behavioral mechanisms. *Brain Research Bulletin*, 4, 549-552.
21. McGivern, R. F., Berka, C., Berntson, G. G., Walker, J. M. & Sandman, C. A. (1979). Effect of naloxone on analgesia induced by food deprivation. *Life Science*, 25, 885-888.
22. Sahley, T. L. & Berntson, G. G. (1979). Antinociceptive effects of central and systemic administration of nicotine in the rat. *Psychopharmacology*, 65, 279-283.
23. Berntson, G. G. & Torello, M. W. (1980). Attenuation of septal hyperemotionality by cerebellar fastigial lesions in the rat. *Physiology & Behavior*, 24, 547-551.
24. Berntson, G. G. & Berson, B. S. (1980). Antinociceptive effects of intraventricular or systemic administration of vasopressin in the rat. *Life Sciences*, 26, 455-459.
25. Berntson, G. G. & Schumacher, K. S. (1980). Effects of cerebellar lesions on activity, social interactions, and other motivated behaviors in the rat. *Journal of Comparative and Physiological Psychology*, 94, 706-717.
26. McGivern, R. F. & Berntson, G. G. (1980). Mediation of diurnal fluctuations in pain sensitivity in the rat by food intake patterns: Reversal by naloxone. *Science*, 210, 210-211.
27. Tuber, D. S., Berntson, G. G., Bachman, D. S. & Allen, J. N. (1980). Associative learning in premature hydranencephalic and normal twins. *Science*, 210, 1035-1037.

28. Walker, J. M., Berntson, G. G., Paulucci, T. S. & Champney, T. C. (1981). Blockade of endogenous opiates reduces activity in the rat. *Pharmacology, Biochemistry, & Behavior*, *14*, 113-116.
29. Walker, J. M., Berntson, G. G., Sandman, C. A., Kastin, A. J. & Akil, H. (1981). Induction of analgesia by central administration of Org 2766, an analog of ACTH₄₋₉. *European Journal of Pharmacology*, *69*, 71-79.
30. Zipf, W. & Berntson, G. G. (1981). Hormonal-dependent subpopulation of rat testicular luteinizing (LH) receptors. *Biology of Reproduction*, *24*, 306-310.
31. Berntson, G. G. & Torello, M. W. (1981). The paleocerebellum and the integration of behavioral function. *Physiological Psychology*, *10*, 2-12.
32. Kirk, T., Hothersall, D. H. & Berntson, G. G. (1982). The effects of paleocerebellar lesions on DRL performance in the albino rat. *Journal of Comparative and Physiological Psychology*, *96*, 348-360.
33. Berson, B. S., Berntson, G. G., Zipf, W., Torello, M. W. & Kirk, W. T. (1983). Vasopressin-induced antinociception: An investigation into its physiological and hormonal basis. *Endocrinology*, *113*, 337-343.
34. McGivern, R. F., Mousa, S., Couri, D. & Berntson, G. G. (1983). Prolonged intermittent footshock stress decreases Met and Leu Enkephalin levels in brain with concomitant decreases in pain threshold. *Life Sciences*, *33*, 47-54.
35. Berntson, G. G., Tuber, D. S., Ronca, A. E. & Bachman, D. S. (1983). The decerebrate human: Associative learning. *Experimental Neurology*, *81*, 77-88.
36. Berntson, G. G. & Boysen, S. T. (1984). Cardiac startle and orienting responses in the Great Apes. *Behavioral Neuroscience*, *98*, 914-918.
37. Tuber, D. A., Ronca, A. E., Boysen, S. T., Berntson, G. G. & Leland, H. (1985). Heart rate reactivity, habituation and associative learning in developmentally disabled preschool children. *Physiological Psychology*, *13*, 95-102.
38. Berntson, G. G., Ronca, A. E., Tuber, D. S., Boysen, S. T. & Leland, H. (1985). Cardiac reactivity and adaptive behavior. *American Journal of Mental Deficiency*, *89*, 415-419.
39. Boysen, S. T. & Berntson, G. G. (1985). Visual evoked potentials in the Great Apes. *Electroencephalography and Clinical Neurophysiology*, *62*, 150-153.
40. Ronca, A. E., Berntson, G. G. & Tuber, D. A. (1986). Cardiac orienting and habituation to auditory and vibrotactile stimuli in the infant decerebrate rat. *Developmental Psychobiology*, *18*, 79-83.
41. Boysen, S. T. & Berntson, G. G. (1986). Cardiac correlates of individual recognition in the chimpanzee (*Pan troglodytes*). *Journal of Comparative Psychology*, *100*, 321-324.

42. Allred, J. B. & Berntson, G. G. (1986). Is euthanasia of rats by decapitation inhumane? *Journal of Nutrition*, *116*, 1859-1861.
43. Boysen, S. T., Berntson, G. G. & Prentice, J. (1987). Simian scribbles: A re-appraisal of drawing in the chimpanzee (*Pan troglodytes*). *Journal of Comparative Psychology*, *101*, 82-89.
44. Zipf, W. B. & Berntson, G. G. (1987). Characteristics of the abnormal food intake patterns in children with Prader-Willi syndrome and a study of the effects of naloxone. *American Journal of Clinical Nutrition*, *46*, 277-281.
45. Berntson, G. G. & Boysen, S. T. (1987). Cardiac reflections of attention and preparatory set in a chimpanzee (*Pan troglodytes*). *Psychobiology*, *15*, 87-92.
46. Potter, B. & Berntson, G. G. (1987). Prenatal alcohol exposure: Effects on acoustic startle and prepulse inhibition in the rat. *Neurotoxicology and Teratology*, *9*, 17-21.
47. Berntson, G. G., Jang, J. F. & Ronca, A. E. (1988). Brainstem systems and grooming behaviors. *Annals of the New York Academy of Sciences*, *525*, 350-362.
48. O'Dougherty, M., Boysen, S. T., Berntson, G. G., Wright, F. S. & Teske, D. (1988). Psychophysiological predictors of attentional dysfunction in children with congenital heart defects. *Psychophysiology*, *25*, 305-315.
49. Boysen, S. T. & Berntson, G. G. (1989). Numerical competence in a chimpanzee (*Pan troglodytes*). *Journal of Comparative Psychology*, *103*, 23-31.
50. Berntson, G. G. & Boysen, S. T. (1989). Specificity of the cardiac response to conspecific vocalizations in chimpanzees (*Pan troglodytes*). *Behavioral Neuroscience*, *103*, 235-245.
51. Boysen, S. T. & Berntson, G. G. (1989). Conspecific recognition in the chimpanzee: Cardiac indices of significant others. *Journal of Comparative Psychology*, *103*, 215-220.
52. Nichols, D. S., Thorn, B. E. & Berntson, G. G. (1989). Opiate and serotonergic mechanisms of stimulation-induced analgesia. *Brain Research Bulletin*, *22*, 717-724.
53. Berntson, G. G., Boysen, S. T., Bauer, H. R. & Torello, M. S. (1989). Conspecific screams and laughter: Cardiac and behavioral reactions of infant chimpanzees. *Developmental Psychobiology*, *22*, 771-787.
54. Berntson, G. G. & Boysen, S. T. (1990). Cardiac indices of cognition in infants, children and chimpanzees. In C. Rovee-Collier & L. Lipsitt (Eds.), *Advances in infancy research*. Vol 6. (pp. 187-220). New York: Ablex.
55. Boysen, S. T. & Berntson, G. G. (1990). The emergence of numerical competence in the chimpanzee (*Pan troglodytes*). In S. T. Parker & K. R. Gibson (Eds.), *Language and intelligence in animals: Developmental perspectives*. London: Cambridge Univ.

56. Zipf, W. B., O'Dorisio, T. N. & Berntson, G. G. (1990). Short-term infusion of pancreatic polypeptide: Effect on children with Prader-Willi syndrome. *American Journal of Clinical Nutrition*, *51*, 162-166.
57. Quigley, K. S. & Berntson, G. G. (1990). Autonomic origins of cardiac responses to non-signal stimuli in the rat. *Behavioral Neuroscience*, *104*, 751-762.
58. Berntson, G. G., Quigley, K. S., Jang, J. & Boysen, S. T. (1990). An approach to artifact identification: Application to heart period data. *Psychophysiology*, *27*, 586-598.
59. Ronca, A. E., Tuber, D. S., Berntson, G. G. & Boysen, S. T. (1991). Autonomic correlates of habituation and learning in developmentally impaired infants and children. In M. L. Languis, P. J. Naour, J. Daniel & J. J. Buffer (Eds.), *Monographs in psychobiology: The integration of behavior (Vol. 6)*. Philadelphia: Gordon & Breach.
60. Cacioppo, J. T., Petty, R. E. & Berntson, G. G. (1991). Persuasion. In R. Dulbecco (Ed.), *Encyclopedia of human biology*, Vol. 5 (pp 799-810). New York: Academic Press.
61. Cacioppo, J. T., Berntson, G. G. & Andersen, B. A. (1991). Psychophysiological approaches to the evaluation of psychotherapeutic process and outcome, 1991: Contributions from social psychophysiology. *Psychological Assessment: A Journal of Consulting and Clinical Psychology*, *3*, 321-336.
62. Berntson, G. G., Cacioppo, J. T. & Quigley, K. S. (1991). Autonomic Determinism: The modes of autonomic control, the doctrine of autonomic space, and the laws of autonomic constraint. *Psychological Review*, *98*, 459-487.
63. Berntson, G. G., Boysen, S. T. & Cacioppo, J. T. (1992). Cardiac orienting and defensive reactions: Potential origins in autonomic space. In B. A. Campbell, H. Hayne & R. Richardson (Eds.), *Attention and information processing in infants and adults: Perspectives from human and animal research*. (pp 163-200). New York: Erlbaum.
64. Cacioppo, J. T., Uchino, B. N., Crites, S. L., Snyder-Smith, M. A., Smith, G., Berntson, G. G. & Lang, P. J. (1992). The relationship between facial expressiveness and sympathetic activation in emotion: A critical review, with emphasis on modeling underlying mechanisms and individual differences. *Journal of Personality and Social Psychology*, *62*, 110-128.
65. Cacioppo, J. T. & Berntson, G. G. (1992). Social psychological contributions to the decade of the brain: Doctrine of multilevel analysis. *American Psychologist*, *47*, 1019-1028.
66. Cacioppo, J. T. & Berntson, G. G. (1992). The principles of multiple, nonadditive and reciprocal determinism: Implications for social psychological research and levels of analysis. In D. N. Ruble, P. R. Costanzo & M. E. Oliveri (Eds.), *The social psychology of mental health: Basic mechanisms and applications*. (pp 328-349). New York: Guilford Press.

67. Cacioppo, J. T., Berntson, G. G. & Klein, D. J. (1992). What is an emotion? The role of somatovisceral afference, with special emphasis on somatovisceral "illusions". *Review of Personality and Social Psychology, 14*, 63-98.
(Published also in Dutch by Psychotherapeutisch Paspoort, 1993)
68. Berntson, G. G., Quigley, K. S., Fabro, V. T., & Cacioppo, J. T. (1992). Vagal stimulation and cardiac chronotropy in rats. *Journal of the Autonomic Nervous System, 41*, 221-226.
69. Berntson, G. G., Cacioppo, J. T. & Quigley, K. S. (1993). Respiratory sinus arrhythmia: Autonomic origins, physiological mechanisms, and psychophysiological implications. *Psychophysiology, 30*, 183-196.
70. Berntson, G. G., Zipf, W. P., O'Dorisio, T. M. & Chance, R. E. (1993). Pancreatic polypeptide infusions reduce food intake in Prader-Willi syndrome. *Peptides, 14*, 497-503.
71. Cacioppo, J. T., Crites, S. L., Berntson, G. G. & Coles, M. G. H. (1993). If attitudes effect how stimuli are processed, should not they effect the event related brain potential? *Psychological Science, 4*, 108-112.
72. Cacioppo, J. T., Klein, D. J., Berntson, G. G., & Hatfield, E. (1993). The psychophysiology of emotion. In R. Lewis & J. M. Haviland (Eds.), *The handbook of emotions*. (pp 119-142). New York: Guilford Press.
73. Berntson, G. G., Boysen, S. T. & Torello, M. W. (1993). Vocal perception: Brain event-related potentials in a chimpanzee. *Developmental Psychobiology, 26*, 315-319.
74. Cacioppo, J. T., Priester, J. R. & Berntson, G. G. (1993). Rudimentary determinants of attitudes II: Arm flexion and extension have differential effects on attitudes. *Journal of Personality and Social Psychology, 65*, 5-17.
75. Boysen, S.T., Berntson, G. G., Shreyer, T. A. & Quigley, K. S. (1993). Processing of ordinality and transitivity in chimpanzees (*Pan troglodytes*). *Journal of Comparative Psychology, 107*, 208-216.
76. Berntson, G. G., Cacioppo, J. T. & Quigley, K. S. (1993). Cardiac psychophysiology and autonomic space in humans: Empirical perspectives and conceptual implications. *Psychological Bulletin, 114*, 296-322.
77. Berntson, G. G., Boysen, S. T. & Cacioppo, J. T. (1993). Neurobehavioral organization and the cardinal principle of evaluative bivalence. *Annals of the New York Academy of Science, 702*, 75-102.
78. Berntson, G. G., Cacioppo, J. T., Quigley, K. S. & Fabro, V. J. (1994). Autonomic space and psychophysiological response. *Psychophysiology, 31*, 44-61.
79. Berntson, G. G., Uchino, B. N. & Cacioppo, J. T. (1994) Origins of baseline variance and the law of initial values. *Psychophysiology, 31*, 204-210.

80. Cacioppo, J. T. & Berntson, G. G. (1994). Relationship between attitudes and evaluative space: A critical review with emphasis on the separability of positive and negative substrates. *Psychological Bulletin*, *115*, 401-423.
81. Cacioppo, J. T., Uchino, B. N. & Berntson, G. G. (1994). Individual differences in the autonomic origins of heart rate reactivity: The psychometrics of respiratory sinus arrhythmia and pre-ejection period. *Psychophysiology*, *31*, 412-419.
82. Cacioppo, J. T., Crites, S. L. Jr., Gardner, W. L., & Berntson, G. G. (1994). Bioelectrical echoes from evaluative categorizations: I. A late positive brain potential that varies as a function of trait negativity and extremity. *Journal of Personality and Social Psychology*, *67*, 115-125.
83. Quigley, K. S., Sarter, M. F., Hart, S. L., & Berntson, G. G. (1994). Cardiovascular effects of the benzodiazepine receptor partial inverse agonist FG 7142 in rats. *Behavioral Brain Research*, *62*, 11-20.
84. Berntson, G. G., Boysen, S. T. & Torello, M. W. (1994). The psychophysiology of chimpanzee perception. In G. Eder, E. Kaiser & F. A. King (Eds.). *The role of the Chimpanzee in research*. (pp 68-78) Basel: Karger.
85. Berntson, G. G., Cacioppo, J. T. & Quigley, K. S. (1994). Autonomic cardiac control. I. Estimation and validation from pharmacological blockades. *Psychophysiology*, *31*, 572-585.
86. Cacioppo, J. T., Berntson, G. G., Binkley, P. F., Quigley, K. S., Uchino, B. N. & Fieldstone, A. (1994). Autonomic cardiac control. II. Basal response, noninvasive indices, and autonomic space as revealed by autonomic blockades. *Psychophysiology*, *31*, 586-598.
87. Berntson, G. G., Cacioppo, J. T., Binkley, P. F., Uchino, B. N., Quigley, K. S. & Fieldstone, A. (1994). Autonomic cardiac control: III. Psychological stress and cardiac response in autonomic space as revealed by pharmacological blockades. *Psychophysiology*, *31*, 599-608.
88. Boutros, N. N., Uretsky, N., Berntson, G., & Bornstein, R. (1994). Effects of cocaine on sensory inhibition in rats: Preliminary data. *Biological Psychiatry*, *36*, 242-248.
89. Berntson, G. G., Cacioppo, J. T., & Quigley, K. S. (1995). The metrics of cardiac chronotropism: Biometric perspectives. *Psychophysiology*, *32*, 162-171.
90. Boysen, S. T., Berntson, G. G., T. S. Shreyer & M. B. Hannan. (1995). Indicating acts during counting by a chimpanzee (*Pan troglodytes*). *Journal of Comparative Psychology*, *109*, 47-51.
91. Cacioppo, J. T., Malarkey, W. B., Kiecolt-Glaser, J. K., Uchino, B. N., Sgoutas-Emch, S. A., Sheridan, J. F., Berntson, G. G., & Glaser, R. (1995). Heterogeneity in neuroendocrine and immune responses to brief psychological stressors as a function of autonomic cardiac activation. *Psychosomatic Medicine*, *57*, 154-164.

92. Boysen, S.T. & Berntson, G.G. (1995). Responses to quantity: Perceptual versus cognitive mechanisms in chimpanzees (*Pan troglodytes*). *Journal of Experimental Psychology: Animal Behavior Processes*, 21, 82-86.
93. Cacioppo, J. T. & Berntson, G. G. (1995). Social psychophysiology. In A. S. R. Manstead & M. Hewstone (Eds.), *Blackwell Encyclopedia of Social Psychology* (pp. 620-625). Oxford: Blackwell.
94. Crites, S. L., Cacioppo, J. T., Gardner, W. L., & Berntson, G. G. (1995). Bioelectric echoes from evaluative categorization: II. A late positive brain potential that varies as a function of attitude registration rather than attitude report. *Journal of Personality and Social Psychology*, 68, 997-1013.
95. Boysen, S. T., Berntson, G. G., Hannan, M. B., & Cacioppo, J. T. (1996) Quantity-based interference and symbolic representations in chimpanzees (*Pan troglodytes*). *Journal of Experimental Psychology: Animal Behavior Processes*, 22, 76-86.
96. Sarter, M., Berntson, G. G., & Cacioppo, J. T. (1996). Brain imaging and cognitive neuroscience: towards strong inference in attributing function to structure. *American Psychologist*, 51, 13-21.

Reprinted in: J. L. Bermudez & B. Towl (Eds) (2012). *The Philosophy of Psychology*, Routledge, Oxon, UK.
97. Berntson, G. G., Hart, S., Ruland, S., & Sarter, M. (1996). A central cholinergic link in the cardiovascular effects of the benzodiazepine receptor partial inverse agonist FG 7142. *Behavioral Brain Research*, 74, 91-103.
98. Quigley, K. S., & Berntson, G. G. (1996) Autonomic interactions and chronotropic control of the heart: Heart period vs. heart rate. *Psychophysiology*, 33, 605-611.
99. Cacioppo, J. T., Berntson, G. G., & Crites, S. L. Jr. (1996). Social neuroscience: Principles of psychophysiological arousal and response. In E. T. Higgins & A. W. Kruglanski (Eds.), *Social psychology: Handbook of basic principles*. (pp. 72-101). New York: Guilford Press.
100. Berntson, G. G., Sarter, M., Ruland, S., Hart, S. & Ronis, V. (1996). Benzodiazepine receptor agonists and inverse agonists yield concordant rather than opposing effects on startle responses. *Journal of Psychopharmacology*, 10, 309-312.
101. Sarter, M., Berntson, G. G., Bruno, J. P., & Givens, B. S. (1996). Agonizing over antagonizing: what do benzodiazepine receptor antagonists demonstrate. *Psychopharmacology*, 126, 182-184.
102. Berntson, G. G., Cacioppo, J. T., & Fieldstone, A. (1996). Illusions, arithmetic, and the bidirectional modulation of vagal control of the heart. *Biological Psychology*, 44, 1-17.

103. Cacioppo, J. T., Gardner, W. L., & Berntson, G. G. (1997). Beyond bipolar conceptualizations and measures: The case of attitudes and evaluative space. *Personality and Social Psychology Review, 1*, 3-25.
--Most highly cited review published in PSPR (Dialogue, May/June, 2008)--

104. Berntson, G. G., Hart, S., & Sarter, M. (1997). The cardiovascular startle response: Anxiety and the benzodiazepine receptor complex. *Psychophysiology*, *34*, 348-357.
105. Cacioppo, J. T., Berntson, G. G., & Petty, R. E. (1997). Persuasion. In R. Dulbecco (Ed.), *Encyclopedia of human biology*, Vol 6, 2nd Ed. (pp 679-690). New York: Academic Press.
106. Fieldstone, A., Zipf, W. B., Schwartz, H. C., & Berntson, G. G. (1997). Food preferences in Prader-Willi syndrome, normal weight, and obese controls. *International Journal of Obesity*, *21*, 1046-1052.
107. Berntson, G. G., Bigger, J. T., Eckberg, D. L., Grossman, P., Kaufmann, P. G., Malik, M., Nagaraja, H. N., Porges, S. W., Saul, J. P., Stone, P. H., & van der Molen, M. W. (1997). Heart rate variability: Origins, methods, and interpretive caveats. *Psychophysiology*, *34*, 623-648.
108. Cacioppo, J. T., Berntson, G. G., Kline, D. J. & Poehlmann, K. M. (1997). The psychophysiology of emotion across the lifespan. *Annual Review of Gerontology and Geriatrics*, *17*, 27-74.
109. Berntson, G. G., & Stowell, J. (1998). ECG artifacts and heart period variability: Don't miss a beat! *Psychophysiology*, *35*, 127-132.
110. Cacioppo, J. T., Poehlmann, K. M., Kiecolt-Glaser, Malarkey, W. B., Burleson, M., Berntson, G. G., & Glaser, R. (1998). Cellular immune responses to acute stress in female caregivers of demented patients and matched controls. *Health Psychology*, *17*, 182-189.
111. Hart, S., Sarter, M., & Berntson, G. G. (1998). Cardiovascular and somatic startle and defense: Concordant and discordant actions of benzodiazepine receptor agonists and inverse agonists. *Behavioural Brain Research*, *90*, 175-186.
112. Fieldstone, A., Zipf, W. B., Sarter, M. F., & Berntson, G. G. (1998). Food intake in Prader-Willi syndrome and obese controls following administration of a benzodiazepine receptor agonist. *Obesity Research*, *6*, 29-33.
113. Padgett, D. A., Sheridan, J. F., Dorne, J., Berntson, G. G., Candelora, J., & Glaser, R. (1998). Social stress and the reactivation of latent herpes simplex virus-type 1. *Proceedings of the National Academy of Sciences*, *95*, 7231-7235.
-PNAS designated among the 20 Most-Frequently-Cited/Psychology (PNAS, 04/02/04)

Reprinted in: Cacioppo, J. T., Berntson, G. G., Adolphs, A., Carter, C. S., Davidson, R. J., McClintock, M. K., McEwen, B. S., Meaney, M. J., Schacter, D. L., Sternberg, E. M., Suomi, S. S., & Taylor, S. E. (2002). *Foundations in social neuroscience*. Boston: MIT Press
114. Cacioppo, J. T., Berntson, G. G., Malarkey, W. B., Kiecolt-Glaser, J. K., Sheridan, J. F., Poehlmann, K. M., Burleson, M. H., Ernst, J. M., Hawkley, L. C., & Glaser, R. (1998). Autonomic, neuroendocrine, and immune responses to psychological stress: The reactivity hypothesis. *Annals of the New York Academy of Sciences*, *840*, 664-673.

115. Burleson, M. H., Malarkey, W. B., Cacioppo, J. T., Poehlmann, K. M., Kiecolt-Glaser, J. K., Berntson, G. G. & Glaser, R. (1998). Postmenopausal hormone replacement: Effects on autonomic, neuroendocrine, and immune reactivity to brief psychological stressors. *Psychosomatic Medicine*, *60*, 17-25.
116. Berntson, G. G., Sarter, M., & Cacioppo, J. T. (1998). Anxiety and cardiovascular reactivity: The basal forebrain cholinergic link. *Behavioural Brain Research*, *94*, 225-248.
Reprinted in: Cacioppo, J. T., Berntson, G. G., Adolphs, A., Carter, C. S., Davidson, R. J., McClintock, M. K., McEwen, B. S., Meaney, M. J., Schacter, D. L., Sternberg, E. M., Suomi, S. S., & Taylor, S. E. (2002). *Foundations in social neuroscience*. Boston: MIT Press
116. Ernst, J. M., Litvack, D. A., Lozano, D. L., Cacioppo, J. T., & Berntson, G.G. (1999). Impedance pneumography: Noise as signal in impedance cardiography. *Psychophysiology*, *36*, 333-338.
118. Cacioppo, J. T., Gardner, W. L., & Berntson, G. G. (1999). The affect system has parallel and integrative processing components: Form follows function. *Journal of Personality and Social Psychology*, *76*, 839-855.
Reprinted in: Cacioppo, J. T., Berntson, G. G., Adolphs, A., Carter, C. S., Davidson, R. J., McClintock, M. K., McEwen, B. S., Meaney, M. J., Schacter, D. L., Sternberg, E. M., Suomi, S. S., & Taylor, S. E. (2002). *Foundations in social neuroscience*. Boston: MIT Press
119. Boysen, S. T., Mukobi, K. L., & Berntson, G. G. (1999). Overcoming response bias using symbolic representations of number by chimpanzees (*Pan troglodytes*). *Animal Learning & Behavior*, *27*, 229-235.
120. Cacioppo, J. T., & Berntson, G. G. (1999). The affect system: Architecture and operating characteristics. *Current Directions in Psychological Science*, *8*, 133-137.
121. Hart, S., Sarter, M., & Berntson, G.G. (1999). Cholinergic inputs to the medial prefrontal cortex mediate potentiation of the cardiovascular defensive response by the anxiogenic benzodiazepine receptor partial inverse agonist FG 7142. *Neuroscience*, *94*, 1029-1038.
122. Berntson, G. G. & Cacioppo, J. T. (1999). Heart rate variability: A neuroscientific perspective for further studies. *Cardiac Electrophysiology Review*, *3*, 279-282.
123. Berntson, G. G., & Cacioppo, J. T. (2000). Psychobiology and social psychology: Past, present and future. *Personality and Social Psychology Review*, *4*, 3-15.

124. Cacioppo, J. T., Ernst, J. M., Burleson, M. H., McClintock, M. K., Malarkey, W. B., Hawkley, L. C., Kowalewski, R. B., Paulsen, A., Hobson, J. A., Hugdahl, K., Spiegel, D., & Berntson, G. G. (2000). Lonely traits and concomitant physiological processes: the MacArthur social neuroscience studies. *International Journal of Psychophysiology*, *35*, 143-154.
Reprinted in: Cacioppo, J. T., Berntson, G. G., Adolphs, A., Carter, C. S., Davidson, R. J., McClintock, M. K., McEwen, B. S., Meaney, M. J., Schacter, D. L., Sternberg, E. M., Suomi, S. S., & Taylor, S. E. (2002). *Foundations in social neuroscience*. Boston: MIT Press
125. Cacioppo, J. T., Tassinary, L. G., & Berntson, G. G. (2000). Psychophysiological Science. In J. T. Cacioppo, L. G. Tassinary, & G. G. Berntson (Eds.), *Handbook of psychophysiology* (pp. 3-23). Cambridge, UK: Cambridge University Press.
126. Berntson, G. G., & Cacioppo, J. T. (2000). From homeostasis to alldynamic regulation. In J. T. Cacioppo, L. G. Tassinary, & G. G. Berntson (Eds.), *Handbook of psychophysiology* (pp. 459-481). Cambridge, UK: Cambridge University Press.
127. Cacioppo, J. T., Berntson, G. G., Larsen, J. T., Poehlmann, K. M., & Ito, T. A. (2000). The psychophysiology of emotion. In M. Lewis, R. & J. M. Haviland-Jones (Eds.), *The handbook of emotions* (2nd Ed.; pp 173-191). New York: Guilford Press. (Republished in paperback, January 2004).
128. Stowell, J. R., Berntson, G. G., & Sarter, M. (2000). Attenuation of the bidirectional effects of chlordiazepoxide and FG 7142 on conditioned response suppression and associated cardiovascular reactivity by loss of cortical cholinergic inputs. *Psychopharmacology*, *150*, 141-149.
129. Cacioppo, J. T., Burleson, M. H., Poehlmann, K. M., Malarkey, W. B., Kiecolt-Glaser, J. K., Berntson, G. G., Uchino, B., & Glaser, R. (2000). Autonomic and neuroendocrine responses to mild psychological stressors: effects of chronic stress on older women. *Annals of Behavioral Medicine*, *22*, 140-148.
130. Cacioppo, J. T., Berntson, G. G., Sheridan, J. F., & McClintock, M. K. (2000). Multi-level integrative analyses of human behavior: The complementing nature of social and biological approaches. *Psychological Bulletin*, *126*, 829-843.
Reprinted in: Cacioppo, J. T., Berntson, G. G., Adolphs, R., Carter, C. S., Davidson, R. J., McClintock, M.K., McEwen, B. S., Meaney, M. J., Schacter, D. L., Sternberg, E. M., Suomi, S. S. & Taylor, S. E. (Eds.). *Foundations in social neuroscience*. Cambridge, MA: MIT Press.
131. Cacioppo, J. T., Berntson, G. G., Ernst, J. M., & Ito, T. A. (2000). Social neuroscience. In A. E. Kazdin (Ed.), *Encyclopedia of psychology*. New York: Oxford University Press & American Psychological Association.
132. Cacioppo, J. T., & Berntson, G. G. (2000). Social neuroscience. In W. E. Craighead & C. B. Nemeroff (Eds.) *The Corsini encyclopedia of psychology and behavioral science* (3rd Ed). (pp 1568-1569). New York: Wiley.

133. Uchino, B. N., Berntson, G. G., Holt-Lunstad, J., & Cacioppo, J. T. (2001). Stress-induced autonomic and immunologic reactivity. In R. Ader, D. L. Felton, & N. Cohen (Eds.) *Psychoneuroimmunology*. (3rd ed., Vol. 2, pp 317-333) San Diego: Academic Press.
134. Cacioppo, J. T., & Berntson, G. G. (2001). The affect system and racial prejudice. In J. A. Bargh & D. K. Apsley (Eds.), *Unraveling the complexities of social life*. (Pp 95-110). Washington: American Psychological Association.
135. Winkielman, P., Berntson, G. G., & Cacioppo, J. T. (2001). The psychophysiological perspective on the social mind. In A. Tesser & N. Schwartz (Eds.), *Blackwell Handbook of Social Psychology*. (pp. 89-108). New York: Blackwell.
136. Boysen, S. T., Berntson, G. G., & Mukobi, K. L. (2001). Size matters: Impact of item size and quantity on array choice by chimpanzees (*Pan troglodytes*). *Journal of Comparative Psychology*, *115*, 106-110.
137. Nakonezny, P. A., Kowalewski, R. B., Ernst, J. M., Hawkley, L. C., Lozano, D. L., Litvack, D. A., Berntson, G. G., Sollers, J.J., Kizakevich, P., Cacioppo, J. T., & Lovallo, W. R. (2001). New ambulatory impedance cardiograph validated against the Minnesota Impedance Cardiograph. *Psychophysiology*, *38*, 465-473.
138. Sarter, M., Bruno, J. P., & Berntson, G. G. (2001). Psychotogenic properties of benzodiazepine receptor inverse agonists. *Psychopharmacology*, *156*, 1-13.
139. Hawkley, L. C., Burleson, M. H., Poehlmann, K. A., Berntson, G. G., Malarkey, W. B., & Cacioppo, J. T. (2001). Cardiovascular and endocrine reactivity in older females: Intertask consistency. *Psychophysiology*, *38*, 863-872.
140. Cacioppo, J. T., & Berntson, G. G. (2001). Social neuroscience. In N. J. Smelser & P. B. Baltes (Eds.) *International Encyclopedia of the Social and Behavioral Sciences* (pp. 14388-14391). New York: Elsevier.
141. Cacioppo, J. T., Hawkley, L. C., Crawford, L. E., Ernst, J. M., Burleson, M. H., Kowalski, R. B., Malarkey, W. B., VanCauter, E., & Berntson, G. G. (2002). Loneliness and health: Potential mechanisms. *Psychosomatic Medicine*, *64*, 407-417.
142. Cacioppo, J. T., Hawkley, L. C., Berntson, G. G., Ernst, J. M., Gibbs, A. C., Stickold, R., & Hobson, J. A. (2002). Do lonely days invade the nights?: The possible social modulation of sleep efficiency. *Psychological Science*, *13*, 384-387.
143. Burleson, M. H., Poehlman, K. M., Hawkley, L. C., Ernst, J. M., Berntson, G. G., Malarkey, W. B., Kiecolt-Glaser, J. K., Glaser, R., & Cacioppo, J. T. (2002). Stress-related immune changes in mid-aged and older women: 1-year consistency of individual differences. *Health Psychology*, *21*, 321-331.
144. Berntson, G. G., Cacioppo, J. T., & Sarter, M. (2002). Psychophysiology. In D'haenen, H., den Boer, J. A., & Willner, P. (Eds.) *Textbook of Biological Psychiatry*. (pp 123-138). New York: John Wiley & Sons.

145. Cacioppo, J. T., & Berntson, G. G. (2002). Social neuroscience. In Cacioppo, J. T., Berntson, G. G., Adolphs, R., Carter, C. S., Davidson, R. J., McClintock, M.K., McEwen, B. S., Meaney, M. J., Schacter, D. L., Sternberg, E. M., Suomi, S. S. & Taylor, S. E. (Eds.). *Foundations in social neuroscience*. (pp 1-10) Cambridge, MA: MIT Press.
146. Berntson, G. G., Shafi, R., & Sarter, M. (2002). Specific contributions of the basal forebrain corticopetal cholinergic system to electroencephalographic activity and sleep/waking behavior. *European Journal of Neuroscience*, 16, 2453-2461.
147. Berntson, G. G., Cacioppo, J. T., & Sarter, M. (2003). Bottom-up: Implications for neurobehavioral models of anxiety and autonomic regulation. In R. J. Davidson, K. R. Scherer, & H. H. Goldsmith (Eds.), *Handbook of affective sciences*. (pp. 1105-1116) New York: Oxford University Press.
148. Berntson, G. G., Sarter, M. & Cacioppo, J. T. (2003). Autonomic nervous system. In Nadel, L. (Ed.), *Encyclopedia of Cognitive Science*. Vol. 1 (pp 301-308) London: Nature Publishing Group.
149. Sarter, M., Bruno, J. P., & Berntson, G. G. (2003). Reticular activating system. In Nadel, L. (Ed.), *Encyclopedia of Cognitive Science*. Vol. 3 (pp 963-967). London: Nature Publishing Group.
150. Berntson, G. G., Shafi, R., Knox, D. & Sarter, M. (2003). Blockade of epinephrine priming of the cerebral auditory evoked response by cortical cholinergic deafferentation. *Neuroscience*, 116, 179-186
151. Berntson, G. G. & Cacioppo, J. T. (2003). A contemporary perspective on multilevel analyses and social neuroscience. In Kessel, F., Rosenfield, P. L., & Anderson, N. (Eds.) *Expanding the boundaries of health and social science: Case studies in interdisciplinary innovation*. (pp. 18-40). New York: Oxford University Press.
152. Burleson, M. H., Poehlmann, K. M., Hawkley, L. C., Ernst, J. M., Berntson, G. G., Malarkey, W. B., Kiecolt-Glaser, J. K., Glaser, R., & Cacioppo, J. T. (2003). Neuroendocrine and cardiovascular reactivity to stress in mid-aged and older women: Long term temporal consistency of individual differences. *Psychophysiology*, 40, 358-369.
153. Bosch, J. A., Berntson, G. G., Cacioppo, J. T., Dhabhar, F. S., & Marucha, P. T. (2003). Acute stress evokes a selective mobilization of T cells that differ in chemokine receptor expression: A potential pathway linking immunologic reactivity to cardiovascular disease. *Brain, Behavior & Immunity*, 17, 251-259.
154. Cacioppo, J. T, Hawkley, L. C., & Berntson, G. G. (2003). The Anatomy of Loneliness. *Current Directions in Psychological Science*, 12, 71-74.
Reprinted in: Ruscher, J. B., & Hammer, E. Y. (2004). *Current directions in social Psychology: Readings from the American Psychological Society*. (pp. 171-177) Upper Saddle River, NJ: Pearson Education, Inc.

155. Hawkley, L. C., Burleson, M. H., Berntson, G. G. & Cacioppo, J. T. (2003) Loneliness in everyday Life: Cardiovascular activity, psychosocial context, and health behaviors. *Journal of Personality and Social Psychology*, 85, 105-120.
156. Cacioppo, J. T. Berntson, G. G., Lorig, T. S., Norris, C. J., Rickett, E., & Nusbaum, H. (2003). Just because you are imaging the brain doesn't mean you can stop using your head: A primer and first set of principles. *Journal of Personality and Social Psychology*, 85, 650-661.
157. Berntson, G. G., Sarter, M. & Cacioppo, J. T. (2003). Ascending visceral regulation of cortical affective information processing. *European Journal of Neuroscience*, 18, 2103-2109.
158. Cacioppo, J. T., Lorig, T. S., Nusbaum, H. C., & Berntson, G. G. (2004). Social neuroscience: Bridging social and biological systems. In Sansone, C., Morf, C. C. & Panter, A. T. (Eds), *The Sage Handbook of Methods in Social Psychology*. (pp 383-404). Thousand Oaks, CA: Sage.
159. Berntson, G. G. & Cacioppo, J. T. (2004). Heart rate variability: Stress and psychiatric conditions. In Malik, M. & Camm, A. J. *Dynamic Electrocardiography*. (pp. 57-64) New York: Blackwell/Futura.
160. Berntson, G. G., Lozano, D. L., Chen, Y-J., & Cacioppo, J. T. (2004). Where to Q in PEP: Reliability and Validity. *Psychophysiology*, 41, 333-337.
161. Cacioppo, J. T., Larsen, J. T., Smith, N. K., & Berntson, G. G. (2004). The affect system: What lurks below the surface of feelings. In Manstead, A. S. R., Frijda, N., & Fischer, A. (eds.). *Feelings and Emotions*. (pp.221-240) Cambridge, UK: Cambridge University Press.
162. Cacioppo, J. T., Semin, G. R., & Berntson, G. G. (2004). Realism, instrumentalism, and scientific symbiosis: Psychological theory as a search for truth and the discovery of solutions. *American Psychologist*, 59, 214-223.
163. Berntson, G. G., & Cacioppo, J. T. (2004) Multilevel analyses and reductionism: Why social psychologists should care about neuroscience and vice versa. In Cacioppo, J. T. & Berntson, G. G. (eds) *Essays in social neuroscience*. (pp. 107-120) Cambridge, MA: MIT Press
164. Cacioppo, J. T., & Berntson, G. G. (2004). Social Neuroscience. In Gazzaniga, M. S. (Ed.) *The Cognitive Neurosciences III*. (pp. 977-985) Cambridge, Mass: MIT Press.
165. Knox, D., Sarter, M., & Berntson, G. G. (2004). Visceral afferent bias on cortical processing: Role of adrenergic afferents to the basal forebrain cholinergic system. *Behavioral Neuroscience*, 118, 1455-1459.
166. Cacioppo, J. T. & Berntson, G. G. (2005). Analysis of the social brain through the lens of human brain imaging. In Cacioppo, J. T. & Berntson, G. G. (eds.) *Social Neuroscience* (pp. 1-17). New York: Psychology Press.
167. Mandrekar, S. J., Nagaraja, H. N., & Berntson, G. G. (2005). Statistical modeling of the differences between successive R-R intervals. *Statistics in Medicine*, 24, 437-451.

168. Berntson, G. G., Lozano, D. L., & Chen, Y-J. (2005). Filter properties of the root mean square successive difference (RMSSD) statistic in heart rate. *Psychophysiology*, *42*, 246-252.
169. Bosch, J. A., Berntson, G. G., Cacioppo, J. T., & Marucha, P.T. (2005). Differential mobilization of functionally distinct Natural Killer subsets during acute psychological stress. *Psychosomatic Medicine*, *67*, 366-375.
170. Hawkey, L. C., Berntson, G. G., Engeland, C. G., Marucha, P. T., Masi, C. M., & Cacioppo, J. T. (2005). Stress, aging, and resilience: Can accrued wear and tear be slowed? *Canadian Psychology*, *46*, 114-125.
171. Berntson, G. G., & Cacioppo, J. T. (2005). Multilevel analysis: Physiological and biochemical measures. In Eid, M. & Diener, E. (Eds.), *Handbook of multimethod measurement in psychology*. (pp.157-172). Washington, DC: American Psychological Association.
172. Berntson, G. G. & Cacioppo, J. T. (2006). Reasoning about brains. In Cacioppo, J. T., Visser, P. S., & Pickett, C. L. (Eds.) *Social neuroscience: People thinking about thinking people*. (pp 1-11). Cambridge, MA: MIT Press.
173. Demaree, H. A., Schmeichel, B. J., Robinson, J. L., Pu, J., Everhart, D. E., & Berntson, G. G. (2006). Up- and down-regulating facial disgust: Affective, vagal, sympathetic, and respiratory consequences. *Biological Psychology*, *71*, 90-99.
174. Cacioppo J. T. & Berntson, G. G. (2006). A bridge linking social psychology and the neurosciences. In Lange, P.V. (Ed.) *Bridging social psychology*. (pp 91-96). Cambridge, Mass: MIT Press.
175. Knox, D. & Berntson, G. G. (2006). Effect of nucleus basalis magnocellularis cholinergic lesions on fear-like and anxiety-like behavior. *Behavioral Neuroscience*, *120*, 307-312.
176. Cacioppo J. T. & Berntson, G. G. (2006) The brain, homeostasis and health: balancing demands of the internal and external milieu. In Friedman, H. S. & Cohen Silver, R. (Eds.) *Foundations of Health Psychology*. (pp 73-91). New York: Oxford University Press.
177. Cacioppo, J. T., Hawkey, L., Ernst, J. M., Bursleson, M., Berntson, G. G., Nouriani, B., & Spiegel, D. (2006). Loneliness within a nomological net: An evolutionary perspective. *Journal of Research in Personality*, *40*, 1054-1085.
178. Berntson, G. G., Cacioppo, J. T., & Grossman, P. (2007). Whither vagal control. *Biological Psychology*, *74*, 295-300.
179. Lozano, D., Norman, G., Knox, D., Wood, B. L., Miller, B. D., Emery, C. L., & Berntson, G. G. (2007). Where to B in dZ/dt. *Psychophysiology*, *44*, 113-119.
180. Berntson, G. G., Quigley, K. S., & Lozano, D. (2007). Cardiovascular psychophysiology. In Cacioppo, J. T., Tassinary, L. G., & Berntson, G. G. (eds.). *Handbook of Psychophysiology*, 3rd edition (182-210). Cambridge, UK: Cambridge University Press.

181. Berntson, G. G., & Cacioppo, J. T. (2007). Integrative physiology: Homeostasis, allostasis and the orchestration of systemic physiology. In Cacioppo, J. T., Tassinary, L. G., & Berntson, G. G. (eds.). *Handbook of Psychophysiology*, 3rd edition, (433-452). Cambridge, UK: Cambridge University Press.
182. Cacioppo, J. T., Tassinary, L. G., & Berntson, G. G. (2007). Psychophysiological science: Interdisciplinary approaches to classic questions about the mind. In J. T. Cacioppo, L. G. Tassinary, & G. G. Berntson (Eds.), *Handbook of psychophysiology*, 3rd edition (pp. 1-18). New York: Cambridge University Press.
183. Berntson, G.G., Bechara, A., Damasio, H., Tranel, D., & Cacioppo, J. T. (2007). Amygdala contributions to selective dimensions of emotion. *Social, Cognitive & Affective Neuroscience*, 2, 123-129.
184. Cacioppo, J. T. & Berntson, G. G. (2007). Affective Distinctiveness: Illusory or Real? *Cognition and Emotion*, 21, 1347-1359.
185. Berntson, G. G., & Cacioppo, J. T. (2008). The neuroevolution of motivation. In Shah, J. Y. & Gardner, W. L. (Eds.). *Handbook of motivation science*. (pp 188-200). New York: Guilford Press.
186. Larsen, J., Berntson, G. G., Poehlmann, K. M., Ito, T. A., & Cacioppo, J. T. (2008). The psychophysiology of emotion. In M. Lewis, J. M. Haviland-Jones & L. Feldman Barrett (Eds.), *Handbook of emotions* (3rd Ed. pp 180-195). New York: Guilford Press.
187. Cacioppo, J. T., Berntson, G., & Thisted, R. A. (2008). Multi-level Analyses: Conceptual Mappings and Perspectives. In Weinstein, M., Vaupel, J. W. & Wachter, K. W. (eds.), *Biosocial surveys*. (pp 367-380). Washington D. C.: National Academies Press.
188. Berntson, G. G. & Cacioppo, J. T. (2008). A contemporary perspective on multilevel analyses and social neuroscience. In Kessel, F., Rosenfield, P. L., & Anderson, N. (Eds.) *Interdisciplinary Research: Case Studies from Health and Social Science*. (pp. 21-43). New York: Oxford University Press.
189. Cacioppo, J. T., Berntson, G. G. & Nusbaum, H. C. (2008). Neuroimaging as a new tool in the toolbox of psychological science. *Current Directions in Psychological Science*, 17, 62-67.
190. Berntson, G. G., Norman, G., Hawkey, L., & Cacioppo, J. T. (2008). Spirituality and autonomic cardiovascular control. *Annals of Behavioral Medicine*, 35, 198-208.
191. Knox, D., Brothers, H., Norman, G., & Berntson, G. G. (2008). Nucleus basalis magnocellularis and substantia innominata corticopetal cholinergic lesions attenuate freezing induced by predator odor. *Behavioral Neuroscience*, 122, 601-610.
192. Berntson, G. G., Norman, G. J., Hawkey, L. C. & Cacioppo, J. T. (2008). Cardiac Autonomic Balance vs. Cardiac Regulatory Capacity. *Psychophysiology*, 45, 643-652.
193. Knox, D. & Berntson, G. G. (2008). Cortical modulation by nucleus basalis magnocellularis corticopetal cholinergic neurons during anxiety-like states are reflected by decreases in delta. *Brain Research*, 1227, 142-152.

194. Berntson, G. G. & Cacioppo, J. T. (2008). The functional neuroarchitecture of evaluative processes. In A. Elliot (Ed.) *Handbook of Approach and Avoidance Motivation*. (pp. 307-321). New York: Lawrence Erlbaum.
195. Weil, Z. M., Norman, G. J., DeVries, A. C., Berntson, G. G. & Nelson, R. J. (2009). Photoperiod alters autonomic regulation of the heart. *Proceedings of the National Academy of Sciences*, 106, 4525-4530.
196. Berntson, G. G., Norman, G. J., & Cacioppo, J. T. (2009). Evaluative Processes. In G. G. Berntson & J. T. Cacioppo (Eds.), *Handbook of neuroscience for the behavioral sciences*. Hoboken, NJ : Wiley.
197. Cacioppo, J. T., & Berntson, G. G. (2009). Integrative neuroscience for the behavioral sciences: Implications for inductive inference. In G. G. Berntson & J. T. Cacioppo (Eds.), *Handbook of neuroscience for the behavioral sciences*. (pp. 617-634). Hoboken, NJ: Wiley.
198. Norman, G. J., Cacioppo, J.T., Berntson, G.G. (2010). Social neuroscience. *Wiley Interdisciplinary Reviews: Cognitive Science*, 1, 60-68.
199. Norris, C. J., Gollan, J., Berntson, G. G., & Cacioppo, J. T. (2010). The current status of research on the structure of evaluative space. *Biological Psychology*, 84, 422–436
200. Norman, G. J., Zhang, N., Karelina, K., Morris, J. S., Berntson, G. G., & DeVries, A. C. (2010). Social interaction modulates autonomic, inflammatory and depressive-like responses to cardiac arrest and cardiopulmonary resuscitation. *Proceedings of the National Academy of Sciences*, 107, 16342-16347.
201. Cacioppo, J. T., Berntson, G. G., & J. Decety. (2010). Social neuroscience and its relationship to social psychology. *Social Cognition*, 28, 675-684.
202. Norman, G. J. Cacioppo, J. T., Morris, J.S., Malarkey, W. B., Berntson, G. G., & DeVries, A. C. (2011). Oxytocin increases autonomic cardiac control: Moderation by loneliness. *Biological Psychology*, 86, 174-180.
203. Berntson, G. G. (2011). Psychosomatic relations: From superstition to mortality. In The Chicago Social Brain Network (Eds.) *Invisible forces and powerful beliefs*. (pp 61-70). Upper Saddle River, NJ: FT Press Science
204. Cacioppo, J. T. Berntson, G. G., Bechara, A., Tranel, D., & Hawley, L. C. (2011). Could an aging brain contribute to subjective well being: The value added by a social neuroscience perspective. In A. Todorov, S. T. Fiske, & D. Prentice (Eds), *Social Neuroscience: Toward Understanding the Underpinnings of the Social Mind*. (pp.249-262). New York: Oxford University Press.
205. Norman, G. J., DeVries, A. C., Cacioppo, J. T. & Berntson, G. B. (2011). Multilevel analysis of stress. In R. J. Contrada & A. Baum (eds.) *Handbook of Stress Science: Psychology, Biology, and Health*. (pp. 619-634). New York: Springer.
206. Berntson, G.G., Bechara, A., Damasio, H., Tranel, D., Norman, G. J. & Cacioppo, J. T. (2011). The insula and evaluative processes. *Psychological Science*, 22, 80-86.

207. Hawkley, L. C., Lavelle, L. A., Berntson, G. G., & Cacioppo, J. T. (2011). Mediators of the relationship between socioeconomic status and allostatic load in the Chicago Health, Aging, and Social Relations Study (CHASRS). *Psychophysiology*, 48, 1134-1145.
208. Norman, G. J., Norris, C. J., Gollan, J., Ito, T. A., Hawkley, L.C., Larsen, J.T., Cacioppo, J. T., & Berntson, G. G. (2011). The neurobiology of evaluative bivalence. *Emotion Review*, 3, 349-359.
209. Norman, G. J., Cacioppo, J. T., Morris, J. S., Karelina, K. Malarkey, W. B., DeVries, A. C. & Berntson, G. G. (2011). Selective influences of oxytocin on the evaluative processing of social stimuli. *Journal of Psychopharmacology*, 25, 1313-1319.
210. Norman, G. J., Cacioppo, J.T., Berntson, G.G. (2011). Social neuroscience of motivation and health. In J. Decety & J. T. Cacioppo (Eds.), *The Handbook of Social Neuroscience*. New York: Oxford University Press.
211. Cacioppo, J. T., Hawkley, L. C., Norman, G. J., & Berntson, G. G. (2011). Social Isolation. *Annals of the New York Academy of Sciences*, 1231, 17-22.
212. Norman, G. J., Cacioppo, J. T., & Berntson, G. G. (2011). Neural basis of motivation. J. Decety & J.T. Cacioppo (Eds). *The Oxford Handbook of Social Neuroscience*. (pp. 164-177). New York: Oxford University Press.
213. Cacioppo, J. T., Berntson, G. G., Norris, C. J., & Gollan, J. K. (2011). The evaluative space model. In P. Van Lange, A. W. Kruglanski & E. T. Higgins (eds.) *Handbook of theories of social psychology*. (Vol. 1, pp. 50-72). Thousand Oaks, CA: Sage Press.
214. Norman, G.J., Deries, C., Hawkley, L., Cacioppo, J.T., & Berntson, G.G. (2011) Social influences on cardiovascular processes: A focus on health. In R. Wright & G.H.E. Gendolla (Eds.). *How motivation affects cardiovascular response: Mechanisms and applications*. (pp. 307-326). Washington, DC: APA Press.
215. Cacioppo, J. T., & Berntson, G. G. (2011). The brain, homeostasis, and health: Balancing demands of the internal and external milieu. In H. S. Friedman (Ed.), *The Oxford Handbook of Health Psychology*. New York: Oxford University Press.
216. Norman, G. J., Cacioppo, J. T., & Berntson, G. G. (2011). Social neuroscience of evaluative motivation. *The Oxford Handbook of Social Neuroscience*. (pp. 164-177). New York: Oxford University Press.
217. Cacioppo, J. T., Berntson, G. G., & J. Decety. (2012). A history of social neuroscience. In A. W. Kruglanski & W. Stroebe (Eds.). *Handbook of the history of social psychology*. (pp. 123-136). New York: Psychology Press.
218. Norman, G. J., Cacioppo, J. T., & Berntson, G. G. (2012). Multilevel analysis and psychophysiological measurement. In V. S. Ramachandran (Editor-in-Chief) *Encyclopedia of Human Behavior*, 2nd Ed. New York: Elsevier.
219. Berntson, G. G., & Cacioppo, J. T.(2012). Reductionism. In L. L'Abate (Ed.) *Paradigms in theory construction*, (pp 365-3745). New York: Springer.

220. Norman, G. J., Hawkley, L. C., Cole, S. W., Berntson, G. G., & Cacioppo, J. T. (2012). Social Neuroscience: The social brain, oxytocin and health. *Social Neuroscience*, 7, 18-29.
221. Berntson, G. G., Norman, G. J., Hawkley, L. C., & Cacioppo, J. T. (2012) Evolution of neuroarchitecture, multilevel analyses and calibrative reductionism. *Interface Focus*, 2, 65-73.
222. Norman, G. J., Hawkley, L., Luhmann, M., Ball, A. B., Cole, S. W., Berntson, G. G., & Cacioppo, J. T. (2012). Variation in the oxytocin receptor gene influences neurocardiac reactivity to social stress and HPA function: A population based study. *Hormones and Behavior*, 61, 134-139.
223. Norman, G., Karelina, K., Zhang, N., Morris, J., Berntson, G. & DeVries, C (2012). Heart rate variability predicts cell death and inflammatory responses to global cerebral ischemia. *Frontiers in Physiology*, 3, 131:1-6.
224. Decety, J., Norman, G., Berntson, G.G. & Cacioppo, J.T. (2012). A Neurobehavioral Evolutionary Perspective on the Mechanisms Underlying Empathy. *Progress in Neurobiology*, 98, 38–48.
225. Cacioppo, J.T & Berntson, G. G. (2012). Is Consciousness Epiphenomenal? *Euresis*, 3, 31-50.
226. Cloutier, J., Norman, G. & Berntson, G. G. (2012). Person Perception and Autonomic Nervous System Response: The Costs and Benefits of Possessing a High Social Status. *Biological Psychology*, 92, 301-305.
227. Norman, G. J., Hawkley, L., Luhmann, M., Cacioppo, J.T. & Berntson G.G. (2013) Social neuroscience and the modern synthesis of social and biological levels of analysis. In Franks, D. & Turner, J. H. (Eds.), *Handbook of Neurosociology*. (pp. 67-82). New York: Springer.
228. Norman, G. J., Hawkley, G.J., Ball, A.B., Berntson, G.G., Cacioppo, J.T. (2013). Perceived social isolation moderates the relationship between early childhood trauma and pulse pressure in older adults: Implications for arterial stiffening. *International Journal of Psychophysiology*, in press.
229. Norman, G. J., Hawkley, L., Ball, A., Luhmann, M. Berntson, G. G. & Cacioppo, J. T. (submitted). The Neurobiology of Social Isolation
230. Krzywicki, A. T., He, G. G., Burns, R. P., Martin, D. J., Berntson, G. G. & O’Kane, B. L. (in revision). A novel non-contact technique for measuring eccrine sweat gland activity using passive thermal imaging.