**Chapter 11 References**

Adám, G. (1967) *Interoception and Behavior: An Experimental Study. Tanslated from the Hungarian by de Chantel, R., revised by Slucki,H.*, Akadémiai Kiadó, Budapest

Adàm, G. (1998) *Visceral Perception: Understanding Internal Cognition.*, Plenum Press, New York

Aggleton, J. P. (2000) *The Amygdala: A Functional Analysis*, Oxford University Press, Oxford

Akert, K. (1981) *Biological Order in Brain Organization. Selected works of W.R. Hess*, Springer, Berlin, Heidelberg, New York

Alexander, S. P. H., Christopoulos, A., Davenport, A. P., Kelly, E., Mathie, A., Peters, J. A., Veale, E. L., Armstrong, J. F., Faccenda, E., Harding, S. D., Pawson, A. J., Sharman, J. L., Southan, C., Davies, J. A., and Collaborators, C. (2019) THE CONCISE GUIDE TO PHARMACOLOGY 2019/20: G protein-coupled receptors. *British Journal of Pharmacology* **176 Suppl 1**, S21-S141

An, X., Bandler, R., Ongur, D., and Price, J. L. (1998) Prefrontal cortical projections to longitudinal columns in the midbrain periaqueductal gray in macaque monkeys. *J Comp Neurol* **401**, 455-479

Anders, S., Lotze, M., Erb, M., Grodd, W., and Birbaumer, N. (2004) Brain activity underlying emotional valence and arousal: a response-related fMRI study. *Hum. Brain Mapp.* **23**, 200-209

Anderson, D. J. (1993) Molecular control of cell fate in the neural crest: the sympathoadrenal lineage. *Annu Rev Neurosci* **16**, 129-158

Applegate, C. D., Kapp, B. S., Underwood, M. D., and McNall, C. L. (1983) Autonomic and somatomotor effects of amygdala central N. stimulation in awake rabbits. *Physiol Behav.* **31**, 353-360

Bandler, R. (1988) Brain mechanisms of aggression as revealed by electrical and chemical stimulation: suggestion of a central role for the midbrain periaqueductal grey region. *Prog.Psychobiol.Physiol.Psychol* **13**, 67-153

Bandler, R., Carrive, P., and Zhang, S. P. (1991) Integration of somatic and autonomic reactions within the midbrain periaqueductal grey: viscerotopic, somatotopic and functional organization. *Prog Brain Res* **87**, 269-305

Bandler, R., and Keay, K. A. (1996) Columnar organization in the midbrain periaqueductal gray and the integration of emotional expression. *Prog Brain Res* **107**, 285-300

Bandler, R., Keay, K. A., Floyd, N., and Price, J. (2000a) Central circuits mediating patterned autonomic activity during active vs. passive emotional coping. *Brain Res.Bull.* **53**, 95-104

Bandler, R., Price, J. L., and Keay, K. A. (2000b) Brain mediation of active and passive emotional coping. *Prog Brain Res* **122**, 333-349

Bandler, R., and Shipley, M. T. (1994) Columnar organization in the midbrain periaqueductal gray: modules for emotionel expression? *Trends Neurosci* **17**, 379-389

Bard, P. (1928) A diencephalic mechanism for the expression of rage with special reference to the sympathetic nervous system. *Am.J.Physiol.* **84**, 490-515

Bard, P. (1932) An emotional expression after decortication with some remarks on certain theoretical views. Part I. *Psychological Reviews* **41**, 309-329

Bard, P., and Macht, M. B. (1957) The behavior of chronically decerebrate cats. In *Ciba Foundation Symposium on the Neurological Basis of Behavior* (Wolstenholme, G. E. W., and O´Connor, M., eds) pp. 55-71, Little, Brown and Co., Boston

Bard, P., and Rioch, D. M. K. (1937) A study of four cats deprived of neocortex and additional portions of the forebrain. *Bull.Johns Hopkins Hosp.* **60**, 73-147

Benison, S., Barger, A. C., and Wolfe, E. L. (1987) *Walter B. Cannon. The Life and Times of a Young Scientist*, The Belknarp Press of Harvard University Press, Cambridge Mass. London UK

Bernard, C. (1865) *Introduction à l´Étude de la Médicine Experimentale. [An Introduction to the Study of Experimental Medicine]*. B. Baillière and Fils (Dover, published 1957), Paris (New York)

Bernard, C. (1878) *Lecons sur les Phénomènes de la Vie Communes aux Animaux et aux Végétaux [Lectures on the Phenomena of Life Common to Animals and Plants. Translated by Hoff, H.E., Guillemin, R. and Guillemin, L.]*, B. Ballière et Fils (Thomas, 1974), Paris (Springfield Illinois)

Berntson, G. G., and Cacioppo, J. T. (2000) From homeostasis to allodynamic regulation. In *Handbook of Psychophysiology. 2nd edition.* (Cacioppo, J. T., Tassinary, L. G., and Berntson, G. G., eds) pp. 459-481, Cambridge University Press, Cambridge

Björntop, P. (1997) Behavior and metabolic disease. *Int.J.Behav.Med.* **3**, 285-302

Blix, A. S., and Folkow, B. (1983) Cardiovascular adjustments to diving in mammals and birds. In *Handbook of Physiology, The Cardiovascular System.* (Shepherd, J. T., and Abboud, F. M., eds) pp. 917-945, Am. Physiol. Soc., Bethesda

Brooks, C. M., Koizumi, K., and Pinkston, J. O. (1975) *The Life and Contributions of Walter Bradford Cannon 1871-1945*, State University of New York, Downstate Medical Center, New York

Bruce, K. D., Zsombok, A., and Eckel, R. H. (2017) Lipid Processing in the Brain: A Key Regulator of Systemic Metabolism. *Frontiers in endocrinology* **8**, 60

Buijs R.M., and Swaab, D. F. (eds.)(2013) *Autonomic Nervous System* Vol. 117, Elsevier, Edinburgh

Butler, P. J., and Jones, D. R. (1997) Physiology of diving of birds and mammals. *Physiol Rev* **77**, 837-899

Bykov, K. M. (1944) *The Cerebral Cortex and the Internal Organs. Translated from the Russian and edited by Hodes R. and Kilbey A. (1959).*, Foreign Language Publishing House, Moscow

Cannon, W. B. (1911) *The Mechanical Factors of Digestion*, Edward Arnold, London

Cannon, W. B. (1914a) The emergency function of the adrenal medulla in pain and the major emotions. *Am.J.Physiol.* **33**, 356-372

Cannon, W. B. (1914b) The interrelations of emotions as suggested by recent physiological researches. *Am J Psychol* **25**, 256-282

Cannon, W. B. (1927) The James-Lange theory of emotions: a critical examination and an alternative theory. *Am.J.Psychol.* **39**, 106-124

Cannon, W. B. (1928) Die Notfallfunktion des sympathico-adrenalen Systems [The emergency function of the sympathico-adrenal system]. *Ergebn.Physiol.* **27**, 380-406

Cannon, W. B. (1929a) *Bodily Changes in Pain, Hunger, Fear and Rage*, Appleton, New York

Cannon, W. B. (1929b) Organization for physiological homeostatis. *Physiol.Rev.* **9**, 399-431

Cannon, W. B. (1939) *The Wisdom of the Body. 2nd revised and enlarged edition.*, Norton, New York

Cannon, W. B., and Murphy, F. T. (1906) The movements of the stomach and intestine in some surgical conditions. *Ann.Surg.* **43**, 512-536

Cannon, W. B., Newton, H. F., Bright, E. M., Menkin, V., and Moore, R. M. (1929) Some aspects of the physiology of animals surviving complete exclusion of sympathetic nerve impulses. *Am.J.Physiol.* **89**, 84-107

Card, J. P., Swanson, L. W. (2013) The hypothalamus: an overview of regulatory systems. In *Fundamental Neuroscience, 4th edition* (Squire, L. R., Berg, D., Bloom, F. E., Du Lac, S., Ghosh, A.., and Spitzer, N. C. eds.) pp. 717-727, Elsevier and Academic Press, Amsterdam

Carrive, P. (1993) The periaqueductal gray and defensive behavior: functional representation and neuronal organization. *Behav.Brain Res* **58**, 27-47

Carrive, P., and Morgan, M. M. (2004) Periaqueductal gray. In *The Human Nervous System* (Paxinos, G., and Mai, J. K., eds) pp. 393-423, Elsevier Academic Press, Amsterdam

Casson, D. M., and Ronald, K. (1975) The harp seal, Pagophilus groenlandicus (Erxleben, 1777). XIV. Cardiac arrythmias. *Comp Biochem.Physiol A* **50**, 307-314

Celander, O. (1954) The range of control exercised by the sympatho-adrenal system. *Acta Physiol.Scand.Suppl.* **116**, 1-132

Chrousos, G. P. (1998) Stressors, stress, and neuroendocrine integration of the adaptive response. The 1997 Hans Selye Memorial Lecture. *Ann.N.Y.Acad.Sci* **851**, 311-335

Clement, C. I., Keay, K. A., Owler, B. K., and Bandler, R. (1996) Common patterns of increased and decreased fos expression in midbrain and pons evoked by noxious deep somatic and noxious visceral manipulations in the rat. *J Comp Neurol* **366**, 495-515

Clement, C. I., Keay, K. A., Podzebenko, K., Gordon, B. D., and Bandler, R. (2000) Spinal sources of noxious visceral and noxious deep somatic afferent drive onto the ventrolateral periaqueductal gray of the rat. *J Comp Neurol* **425**, 323-344

Cox, G. E., Jordan, D., Paton, J. F., Spyer, K. M., and Wood, L. M. (1987) Cardiovascular and phrenic nerve responses to stimulation of the amygdala central nucleus in the anaesthetized rabbit. *J Physiol* **389**, 541-556

Critchley, H., and Dolan, R. J. (2004) Central representation of autonomic states. In *Human Brain Function. 2nd edition.* (Frackowiak, R. S. J., Friston, K. J., Frith, C. D., Dolan, R. J., Price, C. J., Zeki, S., Ashburner, J., and Penny, W., eds) pp. 397-417, Elsevier Academic Press, Amsterdam

Cryer, P. E. (1980) Physiology and pathophysiology of the human sympathoadrenal neuroendocrine system. *New England J.Med.* **303**, 436-444

Damasio, A. R. (1994) *Descartes´ Error: Emotion, Reason and the Human Brain*, New York

Damasio, A. R. (1999) *The Feeling of What Happens: Body and Emotion in the Making of Consciousness*, New York, Harcourt Brace

Damasio, A. R., Adolphs, R., and Damasio, H. (2003) The contributions of the lesion method to the functional neuroanatomy of emotion. In *Handbook of Affective Sciences* (Davidson, R. J., Scherer, K. R., and Goldsmith, H. H., eds) pp. 66-92, Oxford University Press, Oxford New York

Dampney, R. A., Furlong, T. M., Horiuchi, J., and Iigaya, K. (2013) Role of dorsolateral periaqueductal grey in the coordinated regulation of cardiovascular and respiratory function. *Autonomic neuroscience : basic & clinical* **175**, 17-25

Darwin, C. (1872) *The Expression of the Emotions in Man and Animals. Introduction, Afterword and Commentaries by Paul Ekman. 3rd edition 1998*, Harper Collins, London

Davidson, R. J., Scherer, K. R., and Goldsmith, H. H. (eds.)(2003) *Handbook of Affective Sciences*, Oxford University Press, New York Oxford

Duan, Y. F., Winters, R., McCabe, P. M., Green, E. J., Huang, Y., and Schneiderman, N. (1996) Behavioral characteristics of defense and vigilance reactions elicited by electrical stimulation of the hypothalamus in rabbits. *Behav.Brain Res* **81**, 33-41

Duan, Y. F., Winters, R., McCabe, P. M., Green, E. J., Huang, Y., and Schneiderman, N. (1997) Functional relationship between the hypothalamic vigilance area and PAG vigilance area. *Physiology & Behavior* **62**, 675-679

Dum, R. P., Levinthal, D. J., and Strick, P. L. (2016) Motor, cognitive, and affective areas of the cerebral cortex influence the adrenal medulla. *Proceedings of the National Academy of Sciences of the United States of America* **113**, 9922-9927

Dworkin, B. R. (1993) *Learning and Physiological Regulation.* The University of Chicago Press, Chicago

Dworkin, B. R. (2000) Interoception. In *Handbook of Psychophysiology. 2nd edition* (Cacioppo, J. T., Tassinary, L. G., and Berntson, G. G., eds) pp. 482-506, Cambridge University Press, Cambridge

Ekman, P. (1992) Facial expression of emotion: new findings, new questions. *Psychological Science* **3**, 34-38

Ekman, P., and Davidson, R. J. (1994) *The Nature of Emotions*, Oxford University Press, Oxford

Ekman, P., Levenson, R. W., and Friesen, M. V. (1983) Autonomic nervous system activity distinguishes between emotions. *Science* **221**, 1208-1210

Elsner, R., Franklin, D. L., Van Citters, R. L., and Kenney, D. W. (1966) Cardiovascular defense against asphyxia. *Science* **153**, 941-949

Esler, M., Jennings, G., Lambert, G., Meredith, I., Horne, M., and Eisenhofer, G. (1990) Overflow of catecholamine neurotransmitters to the circulation: source, fate, and functions. *Physiol.Rev.* **70**, 963-985

Fernandez de Molina, A., and Hunsperger, R. W. (1962) Organization of the subcortical system governing defence and flight reactions in the cat. *J.Physiol.(Lond.)* **160**, 200-213

Floyd, N. S., Price, J. L., Ferry, A. T., Keay, K. A., and Bandler, R. (2000) Orbitomedial prefrontal cortical projections to distinct longitudinal columns of the periaqueductal gray in the rat. *J Comp Neurol* **422**, 556-578

Floyd, N. S., Price, J. L., Ferry, A. T., Keay, K. A., and Bandler, R. (2001) Orbitomedial prefrontal cortical projections to hypothalamus in the rat. *J Comp Neurol* **432**, 307-328

Folkow, B. (1987) Psychosocial and central nervous influences in primary hypertension. *Circulation* **76**, I10-I19

Folkow, B. (2000) Perspectives on the integrative function of the "sympatho-adrenomedullary system". *Auton.Neurosci.* **83**, 101-115

Folkow, B., Schmidt, T., and Uvnäs-Moberg, K. (1997) Stress, health and the social environment. *Acta Physiol.Scand.* **161, Suppl. 640**, 1-179

Freeman, R., and Rutkove, S. (2000) Sycope. In *The Autonomic Nervous System. Part II: Dyfunctions. Handbook of Clinical Neurology (eds. Vinken,P.J. and Bruyn,G.W.). Vol. 75 (revised series 31)* (Appenzeller, O., ed) pp. 203-228, Elsevier, Amsterdam

Fulton, J. F. (1949) *Physiology of the Nervous System. 3rd edition*, Oxford University Press, New York

Gandevia, S. C., Killian, K., McKenzie, D. K., Crawford, M., Allen, G. M., Gorman, R. B., and Hales, J. P. (1993) Respiratory sensations, cardiovascular control, kinaesthesia and transcranial stimulation during paralysis in humans. *J Physiol* **470**, 85-107

Gaskell, W. H. (1916) *The Involuntary Nervous System*, Longmans, London

Goldstein, D. S. (1995) *Stress, Catecholamines, and Cardiovascular Disease*, Oxford University Press, New York Oxford

Goldstein, D. S. (2000) *The Autonomic Nervous System in Health and Disease*, Marcel Dekker, New York

Goodwin, G. M., McCloskey, D. I., and Mitchell, J. H. (1972) Cardiovascular and respiratory responses to changes in central command during isometric exercise at constant muscle tension. *J Physiol* **226**, 173-190

Guarino, D., Nannipieri, M., Iervasi, G., Taddei, S., and Bruno, R. M. (2017) The Role of the Autonomic Nervous System in the Pathophysiology of Obesity. *Frontiers in Physiology* **8**, 665

Hainsworth, R. and Claydon, V.E. (2013) Syncope and fainting: classification and pathophysiological basis. In *Autonomic Failure. 5th edition* (Mathias, C. J., and Bannister, R., eds) pp. 690-700, Oxford University Press, Oxford

Heinricher, M.M. and Fields, H.L. (2013) Central nervous system of pain modulation. In Wall and Melzack´s Textbook of Pain. 6th ed. (McMahon, B.B., Koltzenburg, M., Tracey, I., Turk, D.C., eds.) pp. 129-142, Elsevier Saunders, Philadelphia

Heinricher, M. M., Ingram, S.L. (2020) The brain stem and nociceptive modulation. In *The Senses: A Comprehensive Reference. Vol 3 Pain* (Pogatski-Zahn, E., Schaible, H.-G., ed) pp. 249 - 271, Elsevier Amsterdam

Henderson, L. A., Keay, K. A., and Bandler, R. (1998) The ventrolateral periaqueductal gray projects to caudal brainstem depressor regions: a functional-anatomical and physiological study. *Neuroscience* **82**, 201-221

Henry, J. P. (1997) *Culture and High Blood pressure*, LIT Publishing Company, Hamburg Münster

Henry, J. P., and Grim, C. E. (1990) Psychosocial mechanisms of primary hypertension. *J Hypertens.* **8**, 783-793

Henry, J. P., and Stephens, P. M. (1977) *Stress, health and the social environment: a sociobiologic approach to medicine*, Springer, Heidelberg Berlin

Hess, W. R. (1944) Hypothalamische Adynamie [Hypothalamic adynamia]. *Helv.Physiol.Acta* **2**, 137-147

Hess, W. R. (1948) *Die Organisation des vegetativen Nervensystems [The Organization of the Autonomic Nervous System]*, Benno Schwabe & Co., Basel

Hess, W. R. (1954) *Das Zwischenhirn, Syndrome, Lokalisationen, Funktionen [The Diencephalon, Syndromes, Localizations, Functions], 2nd edition*, Benno Schwabe, Basel

Hess, W. R., and Brügger, M. (1943) Das subcortikale Zentrum der affektiven Abwehrreaktion [The subcortical center of the affective defense reaction]. *Helv.Physiol.Acta* **1**, 33-52

Horiuchi, J., McDowall, L. M., and Dampney, R. A. (2009) Vasomotor and respiratory responses evoked from the dorsolateral periaqueductal grey are mediated by the dorsomedial hypothalamus. *J Physiol* **587**, 5149-5162

Humphreys, R. K., and Ruxton, G. D. (2018) A review of thanatosis (death feigning) as an anti-predator behaviour. *Behavioral Ecology and Sociobiology* **72**, 22

Hunsperger, R. W. (1956) Affektreackionen auf elektrische Reizung im Hirnstamm der Katze [Affect reactions to electrical stimulation in the brain stem of the cat]. *Helv.Physiol.Acta* **14**, 70-92

Iversen, S., Iversen, L., and Saper, C. B. (2000) The autonomic nervous system. In *The Principles of Neural Science. 4th edition* (Kandel, E. R., Schwartz, J. H., and Jessel, T. M., eds) pp. 960-981, McGraw-Hill, New York

James, W. (1884) What is an emotion? *Mind* **9**, 188-205

James, W. (1994) The physical bases of emotion. 1894. *Psychol Rev* **101**, 205-210

Jänig, W., Keast, J. R., McLachlan, E. M., Neuhuber, W. L., and Southard-Smith, M. (2017) Renaming all spinal autonomic outflows as sympathetic is a mistake. *Autonomic neuroscience : basic & clinical* **206**, 60-62

Kanosue, K., Hosono, T., Zhang, Y. H., and Chen, X. M. (1998) Neuronal networks controlling thermoregulatory effectors. *Prog Brain Res* **115**, 49-62

Keay, K. A., and Bandler, R. (2001) Parallel circuits mediating distinct emotional coping reactions to different types of stress. *Neurosci Biobehav.Rev* **25**, 669-678

Keay, K. A., and Bandler, R. (2004) Periaqueductal gray. In *The Rat Nervous System, 3rd edition* (Paxinos, G., ed) pp. 243-257, Academic Press, San Diego

Keay, K. A., and Bandler, R. (2014) Periaqueductal gray. In *The Rat Nervous System, 4th edition* (Paxinos, G., ed) pp. 207-221, Elsevier Science and Technology, Amsterdam

Keay, K. A., Clement, C. I., Matar, W. M., Heslop, D. J., Henderson, L. A., and Bandler, R. (2002) Noxious activation of spinal or vagal afferents evokes distinct patterns of fos-like immunoreactivity in the ventrolateral periaqueductal gray of unanaesthetised rats. *Brain Res* **948**, 122-130

Keay, K. A., Clement, C. I., Owler, B., Depaulis, A., and Bandler, R. (1994) Convergence of deep somatic and visceral nociceptive information onto a discrete ventrolateral midbrain periaqueductal gray region. *Neuroscience* **61**, 727-732

Keay, K. A., Feil, K., Gordon, B. D., Herbert, H., and Bandler, R. (1997) Spinal afferents to functionally distinct periaqueductal gray columns in the rat: an anterograde and retrograde tracing study. *J Comp Neurol* **385**, 207-229

Kenny, R.A. and Grubb, B. (2013) Syncope and fainting: classification and pathophysiological basis. In *Autonomic Failure. 5th edition* (Mathias, C. J., and Bannister, R., eds) pp. 722-729, Oxford University Press, Oxford

Kuntz, A. (1954) *The Autonomic Nervous System*, Lea & Febinger, Philadelphia

LaBar, K. S., and LeDoux, J. E. (2001) Coping with danger: the neural basis of defensive behavior and fearful feelings. In *Handbook of Physiology. Section 7: The Endocrine System. Vol. IV: Coping with the Environment: Neural and Neuroendocrine Mechanisms* (McEwen, B. S., ed) pp. 139-154, Oxford University Press, Oxford New York

Lange, C. G,. (1887) Über Gemüthsbewegungen. Theodor Thomas, Leipzig [translated into English in *The Emotions* (James, W., and Lange, C. G., eds) 1922, pp. 33-90, Williams and Wilkins, Baltimore]

Langley, J. N. (1897) On the regeneration of preganglionic and of postganglionic visceral nerve fibres. *J.Physiol.(Lond)* **22**, 215-230

Langley, J. N. (1903) Das sympathische und verwandte nervöse Systeme der Wirbeltiere (autonomes nervöses System)[The sympathetic nervous system and related nervous systems in vertebrates (autonomic nervous system)]. *Ergeb.Physiol.* **2/II**, 818-872

Langley, J. N. (1921) *The Autonomic Nervous System. Part I*, W. Heffer, Cambridge

Leite-Panissi, C. R., Coimbra, N. C., and Menescal-de-Oliveira, L. (2003) The cholinergic stimulation of the central amygdala modifying the tonic immobility response and antinociception in guinea pigs depends on the ventrolateral periaqueductal gray. *Brain Res Bull.* **60**, 167-178

Levenson, R. W. (1993) Autonomic nervous system differences among emotions. *Psychological Science* **3**, 23-27

Levenson, R. W., Carstensen, L. L., Friesen, W. V., and Ekman, P. (1991) Emotion, physiology, and expression in old age. *Psychology and Aging* **6**, 28-35

Levenson, R. W., Ekman, P., and Friesen, M. V. (1990) Voluntary facial action generates emotion-specific autonomic nervous system activity. *Psychophysiology* **27**, 363-384

Levenson, R. W., Ekman, P., Heider, K., and Friesen, W. V. (1992) Emotion and autonomic nervous system activity in the Minangkabau of West Sumatra. *J.Personal.Soc.Psychol* **62**, 972-988

Levinthal, D. J., and Strick, P. L. (2012) The motor cortex communicates with the kidney. *The Journal of Neuroscience* **32**, 6726-6731

Levinthal, D. J., and Strick, P. L. (2020) Multiple areas of the cerebral cortex influence the stomach. *Proceedings of the National Academy of Sciences of the United States of America* **117**, 13078-13083

Löfving, B. (1961) Cardiovascular adjustments induced from the rostral cingulate gyrus with special reference to sympatho-inhibitory mechanisms. *Acta Physiol Scand.* **53(Suppl 184)**, 1-82

Markakis, E. A., and Swanson, L. W. (1997) Spatiotemporal patterns of secretomotor neuron generation in the parvicellular neuroendocrine system. *Brain Res Brain Res Rev* **24**, 255-291

Mason, P. (2001) Contributions of the medullary raphe and ventromedial reticular region to pain modulation and other homeostatic functions. *Annu Rev Neurosci* **24**, 737-777

Mathias, C. J., and Bannister, R. (eds.)(2013) *Autonomic Failure. 6th edition.*, Oxford University Press, Oxford

McAllen, R. M., and McKinley, M. J. (2018) Efferent thermoregulatory pathways regulating cutaneous blood flow and sweating. *Handbook of Clinical Neurology* **156**, 305-316

McCabe, P. M., Duan, Y. F., Winters, R. W., Green, E. J., Huang, Y., and Schneiderman, N. (1994) Comparison of peripheral blood flow patterns associated with the defense reaction and the vigilance reaction in rabbits. *Physiol Behav.* **56**, 1101-1106

McEwen, B. S. (1998) Protective and damaging effects of stress mediators. *N.Engl.J.Med.* **338**, 171-179

McEwen, B. S. (2000) Protective and damaging effects of stress mediators: central role of the brain. *Prog.Brain Res.* **122**, 25-34

McEwen, B. S. (2001a) *Coping with the Environment: Neural and Neuroendocrine Mechanisms. Handbook of Physiology. Section 7: The Endocrine System. Vol. IV*, Oxford University Press, Oxford

McEwen, B. S. (2001b) Neurobiology of interpreting and responding to stressful events: paradigmatic role of the hippocampus. In *Handbook of Physiology. Section 7: The Endocrine System. Vol. IV: Coping with the Environment: Neural and Neuroendocrine Mechanisms* (McEwen, B. S., ed) pp. 155-178, Oxford University Press, Oxford New York

McEwen, B. S., and Wingfield, J. C. (2003) The concept of allostasis in biology and biomedicine. *Horm.Behav.* **43**, 2-15

Meyers, G. E. (1986) *William James, His Life and Thought*, Yale University Press, New Haven

Mitchell, J. H. (1985) Cardiovascular control during exercise: central and reflex neural mechanisms. *Am J Cardiol.* **55**, 34D-41D

Morris, J., and Dolan, R. (2004) Functional neuroanatomy of human emotion. In *Human Brain Function. 2nd edition.* (Frackowiak, R. S. J., Friston, K. J., Frith, C. D., Dolan, R. J., Price, C. J., Zeki, S., Ashburner, J., and Penny, W., eds) pp. 365-396, Elsevier Academic Press, Amsterdam

Morrison, S. F. (2018) Efferent neural pathways for the control of brown adipose tissue thermogenesis and shivering. *Handbook of Clinical Neurology* **156**, 281-303

Mosqueda-Garcia, R., Furlan, R., Tank, J., and Fernandez-Violante, R. (2000) The elusive pathophysiology of neurally mediated syncope. *Circulation* **102**, 2898-2906

Nagashima, K., Nakai, S., Tanaka, M., and Kanosue, K. (2000) Neuronal circuitries involved in thermoregulation. *Auton.Neurosci* **85**, 18-25

Obrist, P. A. (1981) *Cardiovascular Psychophysiology: A Perspective.*, Plenum Press, New York

Öngür, D., An, X., and Price, J. L. (1998) Prefrontal cortical projections to the hypothalamus in macaque monkeys. *J Comp Neurol* **401**, 480-505

Öngür, D., and Price, J. L. (2000) The organization of networks within the orbital and medial prefrontal cortex of rats, monkeys and humans. *Cerebral Cortex* **10**, 206-219

Panneton, W. M. (2013) The mammalian diving response: an enigmatic reflex to preserve life? *Physiology* **28**, 284-297

Panneton, W. M., and Gan, Q. (2020) The mammalian diving response: inroads to its neural control. *Frontiers in Neuroscience* **14**, 524

Panksepp, J. (1998) *Affective Neuroscience*, Oxford University Press, New York Oxford

Petrovich, G. D., Canteras, N. S., and Swanson, L. W. (2001) Combinatorial amygdalar inputs to hippocampal domains and hypothalamic behavior systems. *Brain Res.Brain Res.Rev.* **38**, 247-289

Phan, K. L., Wager, T., Taylor, S. F., and Liberzon, I. (2002) Functional neuroanatomy of emotion: a meta-analysis of emotion activation studies in PET and fMRI. *Neuroimage.* **16**, 331-348

Pick, J. (1970) *The Autonomic Nervous System*, J.P.Lippincott, Philadelphia

Ranson, S. W., and Clark, S. L. (1959) *The Anatomy of the Nervous System. 10th edition.*, W.B. Saunders Company, Philadelphia London

Ranson, S. W., and Magoun, H. W. (1939) The hypothalamus. *Ergebn.Physiol.* **41**, 56-163

Risold, P. Y., Thompson, R. H., and Swanson, L. W. (1997) The structural organization of connections between hypothalamus and cerebral cortex. *Brain Res Brain Res Rev* **24**, 197-254

Robertson, D., Biaggioni, I., Burnstock, G., Low, P. A., and Paton, J. F. R. (eds.) (2012) *Primer of the Autonomic Nervous System, 3rd edition*, Elsevier, Academic Press, Oxford

Roelofs, K. (2017) Freeze for action: neurobiological mechanisms in animal and human freezing. *Philosophical Transactions of the Royal Society of London. Series B, Biological Sciences* **372**, 2016.0206

Romanovsky, A. A. (2018) The thermoregulation system and how it works. *Handbook of Clinical Neurology* **156**, 3-43

Rowell, L. B. (1993) *Human Cardiovascular Control*, Oxford University Press, New York, Oxford

Saper, C. B. (2004) Anatomy of hypothalamus. In *The Human Nervous System* (Paxinos, G., and Mai, J. K., eds) pp. 513-550, Elsevier Academic Press, Amsterdam

Schulkin, J. (2003a) *Rethinking Homeostasis. Allostatic Regulation in Physiology and Pathophysiology.*, The MIT press, Cambridge Massachusetts

Schulkin, J. (2003b) Allostasis: a neural behavioral perspective. *Horm.Behav.* **43**, 21-27

Schulkin, J. and Sterling, P. (2019) Allostasis: a brain-centered predictive mode of physiological regulation. Trends. Neurosci. 47, 740-752

Shah, S. D., Tse, T. F., Clutter, W. E., and Cryer, P. E. (1984) The human sympathochromaffin system. *Am.J.Physiol.* **247**, E380-E384

Sheehan, D. (1936) Discovery of the autonomic nervous system. *Arch.Neurol.Psychiat.* **35**, 1081-1115

Sheehan, D. (1941) The autonomic nervous system prior to Gaskell. *New England J.Med.* **224**, 457-460

Silverberg, A. B., Shah, S. D., Haymond, M. W., and Cryer, P. E. (1978) Norepinephrine: hormone and neurotransmitter. *Am.J.Physiol.* **234**, E252-E256

Smith, O. A., Astley, C. A., DeVito, J. L., Stein, J. M., and Walsh, K. E. (1980) Functional analysis of hypothalamic control of the cardiovascular responses accompanying emotional behavior. *Fed.Proc* **39**, 2487-2494

Smith, O. A., Astley, C. A., Spelman, F. A., Golanov, E. V., Bowden, D. M., Chesney, M. A., and Chalyan, V. (2000) Cardiovascular responses in anticipation of changes in posture and locomotion. *Brain Res Bull.* **53**, 69-76

Smith, O. A., and DeVito, J. L. (1984) Central neural integration for the control of autonomic responses associated with emotion. *Annu Rev Neurosci* **7**, 43-65

Smith, O. A., Hohimer, A. R., Astley, C. A., and Taylor, D. J. (1979) Renal and hindlimb vascular control during acute emotion in the baboon. *Am J Physiol* **236**, R198-R205

Sterling, P., and Eyer, J. (1988) Allostasis: a new paradigm to explain arousal pathology. In *Handbook of Life Stress, Cognition and Health* (Fisher, S., and Reason, J., eds) pp. 629-649, Wiley, New York

Swanson, L. W. (1987) The hypothalamus. In *Handbook of Chemical Anatomy. Vol. 5: Integrated Systems of the CNS, Part I. Hypothalamus, Hippocampus, Amygdala, Retina.* (Björklund, A., Hökfelt, T., and Swanson, L. W., eds) pp. 1-124, Elsevier, Amsterdam New York Oxford

Swanson, L. W. (1995) Mapping the human brain: past, present, and future. *Trends Neurosci* **18**, 471-474

Swanson, L. W. (2000) Cerebral hemisphere regulation of motivated behavior. *Brain Res* **886**, 113-164

Swanson, L. W. (2012) *Brain Architecture: Understanding the Basic Plan, 2nd edition*, Oxford University Press, Oxford

Swanson, L. W. (2013) Basic plan of the nervous system. In *Fundamental Neuroscience, 4th edition* (Squire, L. R., Berg, D., Bloom, F. E., Du Lac, S., Ghosh, A.., and Spitzer, N. C. eds) pp. 15-38, Elsevier and Academic Press, Amsterdam

Thompson, R. H., and Swanson, L. W. (2003) Structural characterization of a hypothalamic visceromotor pattern generator network. *Brain Res.Brain Res.Rev.* **41**, 153-202

van Bockstaele, E. J., Aston-Jones, G., Pieribone, V. A., Ennis, M., and Shipley, M. T. (1991) Subregions of the periaqueductal gray topographically innervate the rostral ventral medulla in the rat. *J Comp Neurol* **309**, 305-327

van Dijk, J. G. (2003) Fainting in animals. *Clin.Auton.Res.* **13**, 247-255

von Holst, E., and St.Paul, U. (1960) Vom Wirkungsgefüge der Triebe [The Wirkungsgefüge of Drives]. *Die Naturwissenschaften* **47**, 409-422

von Holst, E., and St.Paul, U. (1962) Electrically controlled behaviour. *Sci.Am.* **206**, 50-60

Watts, A. G., and Swanson, L. W. (2002) Anatomy of motivational systems. In *"Stevens" Handbook of Experimental Psychology. 3rd Edition. Vol. 3* (Gallistel, G. R., ed) pp. 563-631, John Wiley, New York

Weaver, D. R., and Emery, P. (2013) Circadian time keeping. In *Fundamental Neuroscience 4th edition* (Squire, L. R., Berg, D., Bloom, F. E., Du Lac, S., Guosh, A., and Spitzer, N. C., eds) pp. 819-845, Elsevier and Academic Press, Amsterdam