**Chapter 5 References**

Bayliss, W. M., and Starling, E. H. (1899) The movements and innervation of the small intestine. *J.Physiol.(Lond)* **24**, 99-143

Bayliss, W. M., and Starling, E. H. (1900) The movements and innervation of the large intestine. *J.Physiol.(Lond)* **26**, 107-118

Brierley, S., and Costa, M. (eds.)(2016) *The Enteric Nervous System. Advances in Experimental Medicine and Biology Vol 891*, Springer Verlag, Berlin Heidelberg

Brookes, S. J. (2001) Classes of enteric nerve cells in the guinea-pig small intestine. *Anat.Rec.* **262**, 58-70

Brookes, S., and Costa, M. (2002) *Innervation of the Gastrointestinal Tract. Vol 14 of The Autonomic Nervous System (ed. by G. Burnstock)*, Francis and Taylor, London New York

Burns, A. J., Lomax, A. E., Torihashi, S., Sanders, K. M., and Ward, S. M. (1996) Interstitial cells of Cajal mediate inhibitory neurotransmission in the stomach. *Proc.Natl.Acad.Sci.U.S.A* **93**, 12008-12013

Cajal, S. R. (1995 [1911]) Histologie du Système Nerveux de l`Homme et des Vertébrés [Histology of the Nervous System of Man and Vertebrates]. *Maloine [edited and traslated by Swanson,L.W.and Swanson,N., Oxford University Press, Oxford, 1995]* **2**, 891-942

Callaghan, B., Furness, J. B., and Pustovit, R. V. (2018) Neural pathways for colorectal control, relevance to spinal cord injury and treatment: a narrative review. *Spinal cord* **56**, 199-205

Cervi, A. L., Lukewich, M. K., and Lomax, A. E. (2014) Neural regulation of gastrointestinal inflammation: role of the sympathetic nervous system. *Autonomic neuroscience : basic & clinical* **182**, 83-88

Chiocchetti, R., Mazzuoli, G., Albanese, V., Mazzoni, M., Clavenzani, P., Lalatta-Costerbosa, G., Lucchi, M. L., Di Guardo, G., Marruchella, G., and Furness, J. B. (2008) Anatomical evidence for ileal Peyer's patches innervation by enteric nervous system: a potential route for prion neuroinvasion? *Cell and tissue research* **332**, 185-194

Cooke, H. J. (1994) Neuroimmune signaling in regulation of intestinal ion transport. *Am.J.Physiol.* **266**, G167-G178

Cooke, H. J. (1998) "Enteric Tears": Chloride Secretion and Its Neural Regulation. *News Physiol Sci.* **13**, 269-274

Cooke, H. J., and Reddix, R. A. (1994) Neural regulation of intestinal electrolyte transport. In *Physiology of the gastrointestinal tract* (Johnson, L. R., ed) pp. 2083-2132, Raven Press, New York

Costa, M., Brookes, S. J., Steele, P. A., Gibbins, I., Burcher, E., and Kandiah, C. J. (1996) Neurochemical classification of myenteric neurons in the guinea-pig ileum. *Neuroscience* **75**, 949-967

Dickens, E. J., Hirst, G. D., and Tomita, T. (1999) Identification of rhythmically active cells in guinea-pig stomach. *J.Physiol.(Lond)* **514**, 515-531

Downing, J. E., and Miyan, J. A. (2000) Neural immunoregulation: emerging roles for nerves in immune homeostasis and disease. *Immunol.Today* **21**, 281-289

Fukai, K., and Fukuda, H. (1985) Three serial neurones in the innervation of the colon by the sacral parasympathetic nerve of the dog. *J Physiol* **362**, 69-78

Furness, J. B. (2006) *The Enteric Nervous System*, Blackwell Science Ltd, Oxford

Furness, J. B. (2012) The enteric nervous system and neurogastroenterology. *Nature reviews. Gastroenterology & hepatology* **9**, 286-294

Furness, J. B. (2016) Integrated Neural and Endocrine Control of Gastrointestinal Function. *Advances in Experimental Medicine and Biology* **891**, 159-173

Furness, J. B., and Costa, M. (1987) *The Enteric Nervous System*, Churchill Livingston, London

Furness, J. B., and Clerc, N. (2000) Responses of afferent neurons to the contents of the digestive tract, and their relation to endocrine and immune responses. *Prog.Brain Res.* **122**, 159-172

Furness, J. B., and Stebbing, M. J. (2018) The first brain: Species comparisons and evolutionary implications for the enteric and central nervous systems. *Neurogastroenterol Motil* **30**

Furness, J. B., Kunze, W. A., Bertrand, P. P., Clerc, N., and Bornstein, J. C. (1998) Intrinsic primary afferent neurons of the intestine. *Prog.Neurobiol.* **54**, 1-18

Furness, J. B., Kunze, W. A., and Clerc, N. (1999) Nutrient tasting and signaling mechanisms in the gut. II. The intestine as a sensory organ: neural, endocrine, and immune responses. *Am.J.Physiol.* **277**, G922-G928

Furness, J. B., Jones, C., Nurgali, K., and Clerc, N. (2004) Intrinsic primary afferent neurons and nerve circuits within the intestine. *Progress in Neurobiolgy* **72**, 143-164

Furness, J. B., Rivera, L. R., Cho, H. J., Bravo, D. M., and Callaghan, B. (2013) The gut as a sensory organ. *Nature reviews. Gastroenterology & hepatology* **10**, 729-740

Furness, J. B., Callaghan, B. P., Rivera, L. R., and Cho, H. J. (2014) The enteric nervous system and gastrointestinal innervation: integrated local and central control. *Advances in Experimental Medicine and Biology* **817**, 39-71

Gibbins, I. L., Teo, E. H., Jobling, P., and Morris, J. L. (2003) Synaptic density, convergence, and dendritic complexity of prevertebral sympathetic neurons. *J Comp Neurol* **455**, 285-298

Harhun, M. I., Pucovsky, V., Povstyan, O. V., Gordienko, D. V., and Bolton, T. B. (2005) Interstitial cells in the vasculature. *J Cell Mol.Med.* **9**, 232-243

Heel, K. A., McCauley, R. D., Papadimitriou, J. M., and Hall, J. C. (1997) Review: Peyer's patches. *J Gastroenterol.Hepatol.* **12**, 122-136

Hirst, G. D. (2001) An additional role for ICC in the control of gastrointestinal motility? *J Physiol* **537**, 1

Hirst, G. D., and Ward, S. M. (2003) Interstitial cells: involvement in rhythmicity and neural control of gut smooth muscle. *J.Physiol.(Lond.)* **550**, 337-346

Hirst, G. D. S., Holman, M. E., and McKirdy, H. C. (1974) Two types of neurones in the myenteric plexus of duodenum in the guinea-pig. *J.Physiol.(Lond.)* **236**, 303-326

Hirst, G. D., Holman, M. E., and McKirdy, H. C. (1975) Two descending nerve pathways activated by distension of guinea-pig small intestine. *J.Physiol.(Lond.)* **244**, 113-127

Holzer, P. (1998) Neural emergency system in the stomach. *Gastroenterology* **114**, 823-839

Holzer, P. (2002a) Sensory neurone responses to mucosal noxae in the upper gut: relevance to mucosal integrity and gastrointestinal pain. *Neurogastroenterol.Motil.* **14**, 459-475

Holzer, P. (2002b) Control of gastric functions by extrinsic sensory neurons. In *Innervation of the Gastrointestinal Tract. Vol. 14 of The Autonomic Nervous System (ed. by G. Burnstock)* (Brookes, S., and Costa, M., eds) pp. 103-170, Taylor and Francis, London and New York

Horowitz, B., Ward, S. M., and Sanders, K. M. (1999) Cellular and molecular basis for electrical rhythmicity in gastrointestinal muscles. *Annu.Rev Physiol* **61**, 19-43

Huizinga, J. D., Thuneberg, L., Vanderwinden, J. M., and Rumessen, J. J. (1997) Interstitial cells of Cajal as targets for pharmacological intervention in gastrointestinal motor disorders. *Trends Pharmacol Sci.* **18**, 393-403

Huizinga, J. D., Ambrous, K., and Der-Silaphet, T. (1998) Co-operation between neural and myogenic mechanisms in the control of distension-induced peristalsis in the mouse small intestine. *J.Physiol.(Lond)* **506**, 843-856

Huizinga, J. D., and Faussone-Pellegrini, M. S. (2005) About the presence of interstitial cells of Cajal outside the musculature of the gastrointestinal tract. *J Cell Mol.Med.* **9**, 468-473

Huizinga, J. D., Chen, J. H., Zhu, Y. F., Pawelka, A., McGinn, R. J., Bardakjian, B. L., Parsons, S. P., Kunze, W. A., Wu, R. Y., Bercik, P., Khoshdel, A., Chen, S., Yin, S., Zhang, Q., Yu, Y., Gao, Q., Li, K., Hu, X., Zarate, N., Collins, P., Pistilli, M., Ma, J., Zhang, R., and Chen, D. (2014) The origin of segmentation motor activity in the intestine. *Nature communications* **5**, 3326

Hwang, S. J., Blair, P. J., Britton, F. C., O'Driscoll, K. E., Hennig, G., Bayguinov, Y. R., Rock, J. R., Harfe, B. D., Sanders, K. M., and Ward, S. M. (2009) Expression of anoctamin 1/TMEM16A by interstitial cells of Cajal is fundamental for slow wave activity in gastrointestinal muscles. *J Physiol* **587**, 4887-4904

Iino, S., Ward, S. M., and Sanders, K. M. (2004) Interstitial cells of Cajal are functionally innervated by excitatory motor neurons in the murine intestine. *J.Physiol.(Lond.)*

Koh, S. D., Ward, S. M., Ordog, T., Sanders, K. M., and Horowitz, B. (2003) Conductances responsible for slow wave generation and propagation in interstitial cells of Cajal. *Curr.Opin.Pharmacol.* **3**, 579-582

Kunze, W. A., and Furness, J. B. (1999) The enteric nervous system and regulation of intestinal motility. *Annu.Rev Physiol* **61**, 117-142

Lammers, W. J. (2000) Propagation of individual spikes as "patches" of activation in isolated feline duodenum. *Am.J.Physiol Gastrointest.Liver Physiol* **278**, G297-G307

Langley, J. N. (1900) The sympathetic and other related systems of nerves. In *Textbook of Physiology* (Schäfer, E. A., ed) pp. 616-696, Young J. Pentland, Edinburgh, London

Langley, J. N. (1921) *The autonomic nervous system. Part I*, W. Heffer, Cambridge

Lomax, A. E., Sharkey, K. A., and Furness, J. B. (2010) The participation of the sympathetic innervation of the gastrointestinal tract in disease states. *Neurogastroenterology and motility : the official journal of the European Gastrointestinal Motility Society* **22**, 7-18

Luckensmeyer, G. B., and Keast, J. R. (1998) Projections of pelvic autonomic neurons within the lower bowel of the male rat: an anterograde labelling study. *Neuroscience* **84**, 263-280

Lundgren, O. (1988) Nervous control of intestinal transport. In *Bailliere`s Clinical Gastroenterology, Vol. 2/1 "Gastrointestinal neurophysiology"* (Grundy, D., and Read, N. W., eds) pp. 85-106, Balliere Tindall, London

Lundgren, O. (2000) Sympathetic input into the enteric nervous system. *Gut* **47 Suppl 4**, iv33-iv35

Messenger, J. P., Anderson, R. L., and Gibbins, I. L. (1999) Neurokinin-1 receptor localisation in guinea pig autonomic ganglia. *J Comp Neurol* **412**, 693-704

Mowat, A. McL. (2003) Anatomical basis of tolerance and immunity to intestinal antigens. *Nature Review of Immunity* **3**, 331-341

Popescu, L. M., Ciontea, S. M., Cretoiu, D., Hinescu, M. E., Radu, E., Ionescu, N., Ceausu, M., Gherghiceanu, M., Braga, R. I., Vasilescu, F., Zagrean, L., and Ardeleanu, C. (2005a) Novel type of interstitial cell (Cajal-like) in human fallopian tube. *J Cell Mol.Med.* **9**, 479-523

Popescu, L. M., Hinescu, M. E., Ionescu, N., Ciontea, S. M., Cretoiu, D., and Ardelean, C. (2005b) Interstitial cells of Cajal in pancreas. *J Cell Mol.Med.* **9**, 169-190

Prechtl, J. C., and Powley, T. L. (1990) The fiber composition of the abdominal vagus of the rat. *Anatomy and Embryology* **181**, 101-115

Reed, D. E., and Vanner, S. J. (2003) Long vasodilator reflexes projecting through the myenteric plexus in guinea-pig ileum. *J Physiol* **553**, 911-924

Sanders, K. M., Ordog, T., Koh, S. D., Torihashi, S., and Ward, S. M. (1999) Development and plasticity of interstitial cells of Cajal. *Neurogastroenterol.Motil.* **11**, 311-338

Sanders, K. M., Ordog, T., Koh, S. D., and Ward, S. M. (2000) A Novel Pacemaker Mechanism Drives Gastrointestinal Rhythmicity. *News Physiol Sci.* **15**, 291-298

Sanders, K. M., and Smith, T. K. (2003) Neural regulation of colonic motor function. In *Textbook of Colonic Disease* (Koch, T., ed) pp. 35-52, Humana Press, Inc.

Sharkey, K. A., and Mawe, G. M. (2002) Neuroimmune and epithelial interactions in intestinal inflammation. *Curr.Opin.Pharmacol.* **2**, 669-677

Sharkey, K. A., and Savidge, T. C. (2014) Reprint of: Role of enteric neurotransmission in host defense and protection of the gastrointestinal tract. *Autonomic neuroscience : basic & clinical* **182**, 70-82

Smith, T. K., Oliver, G. R., Hennig, G. W., O'Shea, D. M., Vanden Berghe, P., Kang, S. H., and Spencer, N. J. (2003) A smooth muscle tone-dependent stretch-activated migrating motor pattern in isolated guinea-pig distal colon. *J Physiol* **551**, 955-969

Söderholm, J. D., and Perdue, M. H. (2001) Stress and gastrointestinal tract. II. Stress and intestinal barrier function. *Am.J Physiol Gastrointest.Liver Physiol* **280**, G7-G13

Spencer, N., Walsh, M., and Smith, T. K. (1999) Does the guinea-pig ileum obey the 'law of the intestine'? *J Physiol* **517**, 889-898

Spencer, N. J., and Smith, T. K. (2001) Simultaneous intracellular recordings from longitudinal and circular muscle during the peristaltic reflex in guinea-pig distal colon. *J Physiol* **533**, 787-799

Spencer, N. J., Hennig, G. W., and Smith, T. K. (2002) A rhythmic motor pattern activated by circumferential stretch in guinea-pig distal colon. *J Physiol* **545**, 629-648

Spencer, N. J., Hennig, G. W., and Smith, T. K. (2003a) Stretch-activated neuronal pathways to longitudinal and circular muscle in guinea pig distal colon. *Am.J Physiol Gastrointest.Liver Physiol* **284**, G231-G241

Spencer, N. J., Sanders, K. M., and Smith, T. K. (2003b) Migrating motor complexes do not require electrical slow waves in the mouse small intestine. *J Physiol* **553**, 881-893

Spencer, N. J., and Smith, T. K. (2004) Mechanosensory S-neurons rather than AH-neurons appear to generate a rhythmic motor pattern in guinea-pig distal colon. *J Physiol* **558**, 577-596

Suzuki, H., and Hirst, G. D. (1999) Regenerative potentials evoked in circular smooth muscle of the antral region of guinea-pig stomach. *J Physiol* **517 ( Pt 2)**, 563-573

Thuneberg, L. (1982) Interstitial cells of Cajal: intestinal pacemaker cells? *Adv.Anat.Embryol.Cell Biol.* **71**, 1-130

Thuneberg, L. (1999) One hundred years of interstitial cells of Cajal. *Microsc.Res Tech.* **47**, 223-238

van Helden, D. F., and Zhao, J. (2000) Lymphatic vasomotion. *Clinical and experimental pharmacology & physiology* **27**, 1014-1018

van Helden, D. F., and Imtiaz, M. S. (2003) Ca2+ phase waves: a basis for cellular pacemaking and long-range synchronicity in the guinea-pig gastric pylorus. *J Physiol* **548**, 271-296

van Helden, D. F., Imtiaz, M. S., Nurgaliyeva, K., von der Weid, P., and Dosen, P. J. (2000) Role of calcium stores and membrane voltage in the generation of slow wave action potentials in guinea-pig gastric pylorus. *J Physiol* **524 Pt 1**, 245-265

van Helden, D. F., Laver, D. R., Holdsworth, J., and Imtiaz, M. S. (2010) Generation and propagation of gastric slow waves. *Clinical and experimental pharmacology & physiology* **37**, 516-524

Ward, S. M., and Sanders, K. M. (2001) Physiology and pathophysiology of the interstitial cell of Cajal: from bench to bedside. I. Functional development and plasticity of interstitial cells of Cajal networks. *Am.J.Physiol Gastrointest.Liver Physiol* **281**, G602-G611

Ward, S. M., Morris, G., Reese, L., Wang, X. Y., and Sanders, K. M. (1998) Interstitial cells of Cajal mediate enteric inhibitory neurotransmission in the lower esophageal and pyloric sphincters. *Gastroenterology* **115**, 314-329

Ward, S. M., Beckett, E. A., Wang, X., Baker, F., Khoyi, M., and Sanders, K. M. (2000a) Interstitial cells of Cajal mediate cholinergic neurotransmission from enteric motor neurons. *J.Neurosci.* **20**, 1393-1403

Ward, S. M., Ordog, T., Koh, S. D., Baker, S. A., Jun, J. Y., Amberg, G., Monaghan, K., and Sanders, K. M. (2000b) Pacemaking in interstitial cells of Cajal depends upon calcium handling by endoplasmic reticulum and mitochondria. *J.Physiol.(Lond)* **525**, 355-361

Wood, J. D. (1994) Physiology of the enteric nervous system. In *Physiology of the gastrointestinal tract* (Johnson, L. R., ed) pp. 423-482, Raven Press, New York

Wood, J. D. (2002) Enteric neuro-immunology. In *Innervation of the Gastrointestinal Tract. Vol. 14 of The Autonomic Nervous System (ed. by G. Burnstock)* (Brookes, S., and Costa, M., eds) pp. 363-392, Taylor and Francis, London and New York

Yu, L. C., and Perdue, M. H. (2001) Role of mast cells in intestinal mucosal function: studies in models of hypersensitivity and stress. *Immunol.Rev* **179**, 61-73