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Autore	Costa Marcello
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Nota di contenuto	Cover -- Title page -- Imprint -- Dedication -- Contents page 1 -- Contents page 2 -- Foreword -- Introduction -- I. An adventurous and curious boy -- II. A New world -- III. Return to birthplace -- IV. The enteric plexuses in the 1960s -- V. Histochemistry of biogenic amines and the gut -- VI. First encounter with organ bath pharmacology -- VII. A political student and life in the 1960s -- VIII. Geoff Burnstock and the Australian adventure -- IX. Overcoming the tyranny of language in Melbourne in the '70s -- X. Cutting ties with Torino -- XI. European interlude via South America seeking a research career -- XII. Settling in Australia: from Melbourne to Adelaide -- XIII. Exploring the neural bases of intestinal behaviour -- Recording from enteric nuerons -- Polarity of enteric nerve pathways -- XIV. On the function of the enteric inhibitory motor neurons -- Developing new methods for visualizing adrenergic transmitters -- Beyond noradrenergic nerves: other amine neurons in the gut? -- XV. In search for more unknown transmitters in the gut: 5-hydroxytryptamine -- XVI. The environment at Flinders in mid 1970s -- XVII. On the conceptual distinction between the pharmacology and the physiology of neurotransmitters -- The era of neuropeptides in the nervous system -- XVIII. Whole-mount methods for visualizing neuropeptides in the intestine -- XIX. Substance P as an enteric neurotransmitter -- XX. The golden decade of the 1980s:

unravelling the enteric circuits -- My links with a remarkable colleague -- XXI. Fast (spark) and slow (soup) synaptic transmission in the nervous system -- Slow synaptic transmission in the enteric nervous system -- XXII. VIP and the NANC inhibitory nerves -- One or more transmitters for every neuron -- Multiple neuronal markers -- XXIII. Visualising cholinergic neurons in the enteric nervous system (ENS). Where are the enteric motor neurons in gut? -- XXIV. Emergence of the concept of chemical coding of neurons -- Plurichemical transmission -- XXV. Multidisciplinary approach to unravelling enteric neural circuits -- Ultrastructure of the ENS and synaptic connections -- Analytical methods to confirm the biochemical nature of substances visualised by IHC. -- XXVI. Beyond the gut -- Other species -- Travelling as a researcher to Japan -- XXVII. Was our work on guinea pigs wasted? -- Beyond the gut again -- XXVIII. The 1990s -- a decade of closures and further explorations -- The gut and opioid drugs -- The discovery of nitric oxide as neurotransmitter -- Using the chemical coding concept to identify more functional classes of enteric neurons -- Neurofilaments in enteric neurons -- XXIX. Final unravelling of the enteric circuits -- the arrival of Simon Brookes -- XXX. Spatial pharmacology -- Mechanisms of peristalsis in the isolated guinea-pig small intestine -- The first comprehensive summary of the identifiable classes of enteric neurons -- XXXI. Presidency of the Australian Neuroscience Society and other adventures -- Further adventures in Patagonia -- Crossing waters by sailboard -- Working with a giant pharmaceutical company: AstraZeneca -- My links with Swedish scientists -- XXXII. The Human ENS -- Extending studies to the innervation of other viscera -- XXXIII. Teaching administration and research -- Varenna teaching slides -- Cognitive science course at Flinders -- XXXIV. The new millennium -- beyond anatomy and physiology -- spatio-temporal representation of gut movements -- Modelling of peristalsis -- XXXV. Back to the brain and eventually back to the gut -- Return to the experimental labs -- Developing the new spatio-temporal mapping methods -- XXXVI. My last years: the enteric circuits in the modern era. Conceptual issues remaining open at the end of my research career -- Acknowledgements -- References -- Brief Curriculum Vitae -- Chronology -- Research productivity -- Conferences -- Teaching -- Public Engagement -- Colleagues perspectives -- John Chalmers, AC FAA FAAHMS FRACP -- John Furness FAA -- Bill Blessing -- Ian Gibbins -- Judy Morris -- Simon Brookes -- Nick Spencer -- Phil Dinning -- Wakefield Press -- Back cover.

Sommario/riassunto

Marcello Costa published his first paper in Neuro-gastroenterology in 1965. He pioneered many methods to investigate the organization and functions of the so-called 'little brain in the gut', the Enteric Nervous System. This monograph summarizes his extensive work in collaboration with close to 200 colleagues from different countries.