

1. Record Nr.	UNINA9910298280403321
Titolo	Presynaptic Terminals // edited by Sumiko Mochida
Pubbl/distr/stampa	Tokyo : , : Springer Japan : , : Imprint : Springer, , 2015
ISBN	4-431-55166-2
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Descrizione fisica	1 online resource (368 p.)
Disciplina	572 610 612 612.8 612.8042
Soggetti	Neurochemistry Human physiology Biochemistry Neurosciences Human Physiology Biochemistry, general
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Preface -- Part 1 Overview -- 1 Overview: Presynaptic Terminal Proteins Orchestrate Stepwise Synaptic Vesicle Phases (Sumiko Mochida) -- Part 2 Presynaptic Active Zone Proteins -- 2 Active Zone Assembly (Thomas Dresbach) -- 3 Network of Protein-Protein Interaction at the Presynaptic Active Zone (Toshihisa Ohtsuka) -- Part 3 Synaptic Vesicle Fusion.- 4 Fusion Machinery: SNARE Protein Complex (Ira Milosevic and Jakob B. Sørensen).- 5 Roles of Tomosyn in Neurotransmitter Release (Yasunori Yamamoto and Toshiaki Sakisaka).- 6 Regulation of SNAREs: Complexin (Hiroshi Tokumaru).- 7 The Synaptic Vesicle V-ATPase: A Regulatory Link Between Loading and Fusion? (Oussama El Far and Michael Seager).- 8 Ca <sup>2+</sup> Sensors: Synaptotagmins (Tei-ichi Nishiki, Kentaro Kuroki, Toshio Masumoto, and Hideki Matsui).- 9 Regulation of Active Zone Ca <sup>2+</sup> Channels (Karina Leal and Sumiko Mochida) -- Part 4 Synaptic Vesicle Endocytosis -- 10 Endocytic Machinery at the Neuronal

Synapse (Ira Milosevic) -- 11 Dynamin is a Key Molecule to Decode Action Potential Firing (Shota Tanifuji and Sumiko Mochida) -- Part 5 Synaptic Vesicle Refilling and Storage -- 12 Transport of Amino Acid Neurotransmitters Into Synaptic Vesicles (Shigeo Takamori) -- 13 Synapsins and Synaptic Vesicle Storage (Fabrizia C. Guarnieri, Fabio Benfenati, and Flavia Valtorta) -- Part 6 Synaptic Vesicle Pools -- 14 Synaptic Vesicle Pools: Classical and Emerging Roles (Sven Truckenbrodt and Silvio O. Rizzoli) -- BM Index.

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## Sommario/riassunto

This book brings together leading international experts to discuss recent advances in functional studies on key proteins and protein complexes involved in each synaptic vesicle phase. These include proteins that control the final step of neurotransmitter release, in response to a neural signal, and the first step of vesicle endocytosis, which helps maintain stable neurotransmitter release in response to unceasing neural signals arriving at presynaptic terminals. Neural networks transmit input and output signals of action potentials using chemical synapses. The strength of the signal from one to another neuron can be tuned by the neural signal itself as it induces Ca<sup>2+</sup> entry and by other neurons' signals that modify Ca<sup>2+</sup> entry through voltage-gated Ca<sup>2+</sup> channels at the active zone, where chemical neurotransmitters are released from synaptic vesicles via exocytosis. Synaptic vesicles are docked and primed at the active zone prior to exocytosis and are endocytosed after exocytosis for reuse at a small presynaptic terminal. Recycled vesicles are refilled with transmitters and stored for a future round of exocytosis. Thus, synaptic vesicles in presynaptic terminals go through various phases. Each vesicle phase is well orchestrated by numerous proteins and advance step-by-step with neural activities. The fine regulations of synaptic vesicle phases by numerous proteins is an exciting subject, and systematic, well-organized explanations in this book will help the reader easily learn about complicated molecular mechanisms in presynaptic terminals.

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2. Record Nr.	UNINA9910411927203321
Autore	Pathirana Dhanusha Gihan
Titolo	A History of Underdevelopment and Political Economy of Inflation in Sri Lanka : With an Outline of Nationalisms // by Dhanusha Gihan Pathirana, Chandana Aluthge
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Palgrave Pivot, , 2020
ISBN	9789811556647 9811556644
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (xxi, 235 pages)
Collana	Palgrave pivot
Disciplina	330.9549303
Soggetti	Asia - Economic conditions Economics Social choice Welfare economics Development economics Asian Economics Political Economy and Economic Systems Social Choice and Welfare Development Economics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Chapter 1: Introduction -- Chapter 2: Towards a Theory of Inflation in Underdeveloped Economies -- Chapter 3: Plantations and Rise of the Merchant cum Usurer Class during British Rule in Sri Lanka -- Chapter 4: Research Methodology -- Chapter 5: Results and Discussion -- Chapter 6: Pattern of Capital Formation, Surplus Labour and Inflation: Historical Evidence.
Sommario/riassunto	"The volume is a most original and pioneering application of the synthesis of theories derived from the contributions of past and present economists to an empirical study of inflation in Sri Lanka. It is a compelling case study of how drawing on the elements of past and present writings may be made into illuminating theoretical narratives to apply to historical episodes in individual societies. The volume shows

the value of how understanding past theories in their original contexts may be used with or without modification to make sense of happenings in our times.” ---- GC Harcourt, Emeritus Reader in The History of Economic Theory, Cambridge, 1998; Emeritus Fellow, Jesus College, 1998; Professor Emeritus, Adelaide, 1988; Visiting Professorial Fellow, UNSW Australia, 2010–2016; Honorary Professor, UNSW Australia, 2016–2022 The book provides a new conceptualisation of inflation in underdeveloped economies, through Sri Lanka’s historical experience. It outlines a general theory of nationalisms in their diverse manifestations across the world, within a historical perspective of capitalist development and underdevelopment. The book, therefore, seeks to capture the production mode holistically, within both its infrastructural and superstructural levels probing their interactions. The theoretical structure through which inflation is analysed synthesises the theory of unproductive labour and Marxian theory of prices of production with labour surplus theory of late Dr. S. B. D. De Silva in the context of underdevelopment. In this light, Professor David Laibman’s Allocation Problem is resolved within a Marxist framework to provide an operational significance to the theory and its application. In the same vein the book also provides a new theoretical interpretation of Sri Lanka’s historical development from the British period onwards through application of theories of capitalist development and surplus labour. Dhanusha Gihan Pathirana has been an Economist for nearly 10 years at Asia Capital PLC, Sri Lanka, a multinational investment bank operating within the Asian region based in Sri Lanka. Dr. Chandana Aluthge has 24 years of experience as a Lecturer in Economics at the University of Colombo, Sri Lanka and is currently a Senior Lecturer in Economics at the university. He published a number of journal articles and presented papers on issues pertaining to Finance and Economic Development in Sri Lanka. He holds a PhD in Economics from Free University Amsterdam, Netherlands.

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