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| Nota di contenuto       | Intro -- Preface -- Contents -- A Lived History of Early Calcium Channel Discoveries Over the Past Half-Century -- Ca <sup>2+</sup> as Central Ion for Muscle Contraction -- The "Ca-Spikes" of Crustacean Skeletal Muscles -- "Ca-Spikes" in Heart and Neurons -- How to Look at Ca <sup>2+</sup> Currents Through Voltage-Clamp Recordings -- Ca <sup>2+</sup> Currents in the Heart and Mollusc Neurons: The Problem of Blocking K <sup>+</sup> Currents -- A Convergent View on the Existence of "a" Ca <sup>2+</sup> Channel in Excitable Cells -- The "Patch-Clamp" Technique and the Explosive Interest on Ca <sup>2+</sup> Channels -- The Discovery of the "Low-Voltage Activated" T-Type Channel -- The Unique Properties of T-Type (LVA) Channels -- The Explosive Interest on T-Type Channels -- The Ca <sup>2+</sup> Channel Family Growths -- The N-Type Channel -- The P/Q-Type Channel -- The R-Type Channel -- From Ionic Currents to the Molecular Structure of Ca <sup>2+</sup> Channels -- The cAMP-Mediated Enhancement of Cardiac L-Type Channels as First Example of Ca <sup>2+</sup> Channel Modulation -- Early Observations on the GPCR-Mediated Inhibition of Neuronal Ca <sup>2+</sup> Channels -- Towards a Full Understanding of the GPCR-Induced Delayed Activation of HVA Channels -- Looking Deeper to the Structure and Function of Cav2 Channels Modulation by G proteins -- Take-Home Message -- References -- Part I: Structural and Molecular Aspects of VGCCs -- Subunit Architecture and Atomic |

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