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Nota di contenuto	Intro -- Contents -- Preface -- Origins and Principles of Translational Control -- The Pathway and Mechanism of Initiation of Protein Synthesis -- The Protein Biosynthesis Elongation Cycle -- A Comparative View of Initiation Site Selection Mechanisms -- Mechanism and Regulation of Initiator Methionyl- tRNA Binding to Ribosomes -- Regulation of Ribosomal Recruitment in Eukaryotes -- Translational Control of Developmental Decisions -- Viral Translational Strategies and Host Defense Mechanisms -- Ribosomal Subunit Joining -- Physical and Functional Interactions between the mRNA Cap Structure and the Poly(A) Tail -- Translation Termination: It's Not the End of the Story -- Genetic Approaches to Translation Initiation in Saccharomyces cerevisiae -- The Double-stranded RNA-activated Protein Kinase PKR -- Heme-regulated eIF2 Kinase -- PERK and Translational Control by Stress in the Endoplasmic Reticulum -- Regulation of Translation Initiation in Mammalian Cells by Amino Acids -- Translational Control during Heat Shock -- Translational Control by Upstream Open Reading Frames -- Cellular Internal Ribosome Entry Site Elements and the Use of cDNA Microarrays in Their Investigation -- Translational Control and Cancer -- Translational Control of Ferritin Synthesis -- Translational Control of TOP mRNAs -- S6 Phosphorylation and Signal Transduction -- Control of the Elongation Phase of Protein Synthesis -- Programmed Translational Frameshifting, Hopping, and Readthrough of

TerminationCodons -- Recoding UGA as Selenocysteine -- Influence of Polyadenylation-induced Translation on Metazoan Development and Neuronal Synaptic Function -- Interaction of mRNA Translation and mRNA Degradation in *Saccharomyces cerevisiae* -- Destabilization of Nonsense-containing Transcripts in *Saccharomyces cerevisiae*. Nonsense-mediated RNA Decay in Mammalian Cells: A Splicing-dependent Means to Down- regulate the Levels of mRNAs That Prematurely Terminate Translation -- Translation Initiation on Picornavirus RNA -- Adenovirus Inhibition of Cellular Protein Synthesis and Preferential Translation of Viral mRNAs -- Reovirus Translational Control -- Translational Reprogramming during Influenza Virus Infection -- Translational Control in Poxvirus- infected Cells -- Nontranslational Functions of Components of the Translational Apparatus -- Index.
