

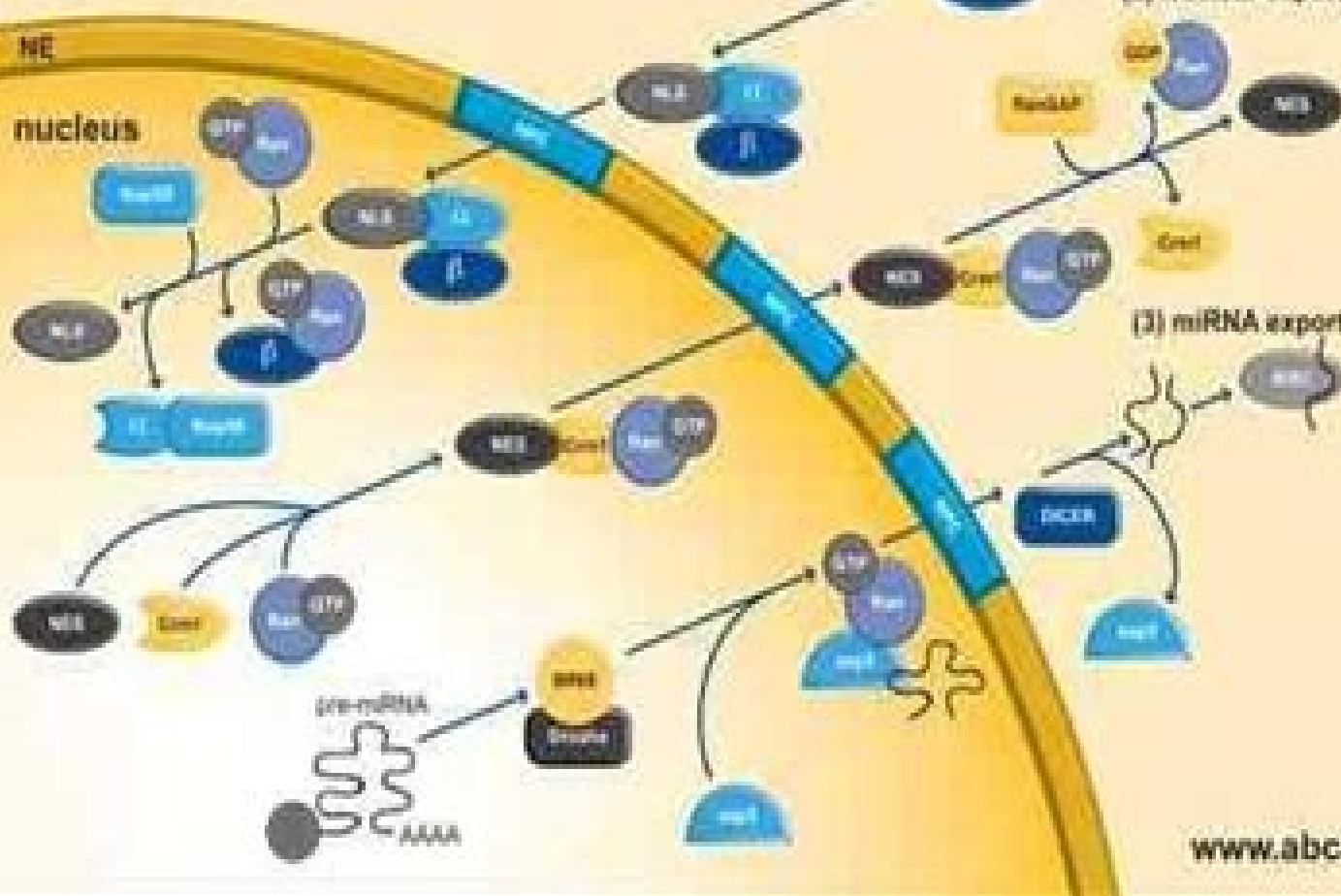
Nucleocytoplasmic Transport Pathways

cytoplasm

(1) Nuclear import

(2) Nuclear export

(3) miRNA export



Separation of transcription and translation is a hallmark of eukaryotic cells. The nuclear envelope (NE) is a physical barrier between the nucleus and cytoplasm. Nuclear pore complexes (NPCs) provide a critical connection through the NE, enabling controlled bidirectional trafficking of molecules within the cell. The NPC allows passage of molecules up to 50-60 kDa, depending on the state of the NPC. Translocation of large molecules is dependent on specific transport receptors known as karyopherins. A Ran GTPase concentration gradient generates the energy required for transport. The NPC is composed of approximately 25 different proteins (nucleoporins or Nups). One class of Nups, containing FG (phenylalanine-glycine) repeats, form the NPC channel. These FG repeats act as a permeability barrier to providing binding sites for karyopherins. Importins and exportins are karyopherins that recognize nuclear localization signals (NLS) and nuclear export signals (NES) on proteins, respectively. These receptors serve to overcome the permeability barrier, allowing passage of large molecules through the NPC core. Several schemes of nuclear import (1) and export (2) are diagrammed.

Besides proteins, the passage of many types of RNA molecules between the nucleus and cytoplasm is also regulated by NPCs. One species of RNA getting much interest is microRNA (miRNA). Following transcription and processing, pre-miRNA is exported to the cytoplasm via its receptor Exportin-5. After further processing, it is incorporated into the RNA-induced silencing complex (RISC), as diagrammed in (3).

Nucleocytoplasmic Transport

**Sonia Do Carmo,A. Claudio
Cuello,Maria Grazia Spillantini**



Nucleocytoplasmic Transport:

The Meaning of Nucleocytoplasmic Transport Paul S. Agutter, Philip L. Taylor, 2013-06-29 The means by which proteins and RNAs are exchanged between cytoplasm and nucleus have interested cell biologists for many years and the field has seen a number of exciting recent advances Much has been learned about the intricate architecture of the nuclear pore complex the mechanisms by which transport substrates are sorted and the supply of energy for exchange processes This book attempts a general review of the growing body of knowledge However the authors challenge the presumptions implicit in some interpretations of the evidence re examining the concept of transport within cells and suggesting that lessons learned from nucleocytoplasmic transport studies can elucidate wider aspects of cell biology *Nuclear Pore Complexes and Nucleocytoplasmic Transport - Methods*, 2014-05-20 Volume 122 of Methods in Cell Biology describes modern tools and techniques used to study nuclear pore complexes and nucleocytoplasmic transport in diverse eukaryotic model systems including mammalian cells Xenopus C elegans yeast The volume enables investigators to analyze nuclear pore complex structure assembly and dynamics to evaluate protein and RNA trafficking through the nuclear envelope and to design in vivo or in vitro assays appropriate to their research needs Beyond the study of nuclear pores and transport as such these protocols will also be helpful to scientists characterizing gene regulation signal transduction cell cycle viral infections or aging The NPC being one of the largest multiprotein complexes in the cell some protocols will also be of interest for people currently characterizing other macromolecular assemblies This book is thus designed for laboratory use by graduate students technicians and researchers in many molecular and cellular disciplines Describes modern tools and techniques used to study nuclear pore complexes and nucleocytoplasmic transport in diverse eukaryotic model systems mammalian cells Xenopus C elegans yeast Chapters are written by experts in the field Cutting edge material **Nucleocytoplasmic Transport** Reiner Peters, Michael Trendelenburg, 2012-12-06 *Nuclear-Cytoplasmic Transport* Weidong Yang, 2018-07-27 Dysfunction of nuclear cytoplasmic transport systems has been associated with many human diseases Thus understanding of how functional this transport system maintains or through dysfunction fails to maintain remains the core question in cell biology In eukaryotic cells the nuclear envelope NE separates the genetic transcription in the nucleus from the translational machinery in the cytoplasm Thousands of nuclear pore complexes NPCs embedded on the NE selectively mediate the bidirectional trafficking of macromolecules such as RNAs and proteins between these two cellular compartments In this book the authors integrate recent progress on the structure of NPC and the mechanism of nuclear cytoplasmic transport system in vitro and in vivo *Tau Pathology in Neurological Disorders* Sonia Do Carmo, A. Claudio Cuello, Maria Grazia Spillantini, 2021-11-12 **Xenopus Protocols** X. Johné Liu, 2008-02-02 A collection of standard and cutting edge techniques for using Xenopus oocytes and oocytes egg extracts to reconstitute biological and cellular processes These readily reproducible methods take advantage of the oocyte's impressive protein abundance its striking protein translation capacity and its breathtaking

possibilities for the assembly of infectious viral particles by single cell injection of multiple RNAs The authors focus on the versatility of frog oocytes and egg extracts in cell biology and signal transduction and cover all the major uses of oocytes extracts as experimental models *Cellular Mechanotransduction* Mohammad R. K. Mofrad,Roger D. Kamm,2014-07-31

Mechanotransduction is the term for the ability first described by 19th century anatomist Julius Wolff of living tissues to sense mechanical stress and respond by tissue remodeling More recently the scope of mechanotransduction has been expanded to include the sensation of stress its translation into a biochemical signal and the sequence of biological responses it produces This book looks at mechanotransduction in a more restricted sense focusing on the process of stress sensing and transducing a mechanical force into a cascade of biochemical signals This stress has become increasingly recognized as one of the primary and essential factors controlling biological functions ultimately affecting the function of the cells tissues and organs A primary goal of this broad book is also to help define the new field of mechanomics which attempts to describe the complete mechanical state of a biological system *Myogenesis* ,2011-07-22

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For the first time world leading experts in the area of cellular signaling have joined to the production of a book on Smad signal transduction Smads are the principal intracellular effectors of TGF b family members that control numerous cellular responses with critical roles in development and in tissue homeostasis In a series of 22 cutting edge chapters forward looking reviews of Smads are provided that cover their discovery evolution role in development mechanism of action and regulation and how deregulation in Smad signalling contributes to human diseases Written for an audience with basic understanding of molecular and cell biology this volume provides an in depth review of a rapidly developing field and extensive cross references between chapters are provided This book will be of particular interest to basic and applied biomedical researchers students post docs or group leaders with desire to understand the principles of cell cell communication and mechanisms by which signaling pathways and gene programs control cell proliferation and differentiation and how this knowledge may come to be applied in the clinic **NEUROTHERAPEUTICS IN THE ERA OF TRANSLATIONAL MEDICINE.** RICHARD A. SMITH,2021

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