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Dipankar Chatterji

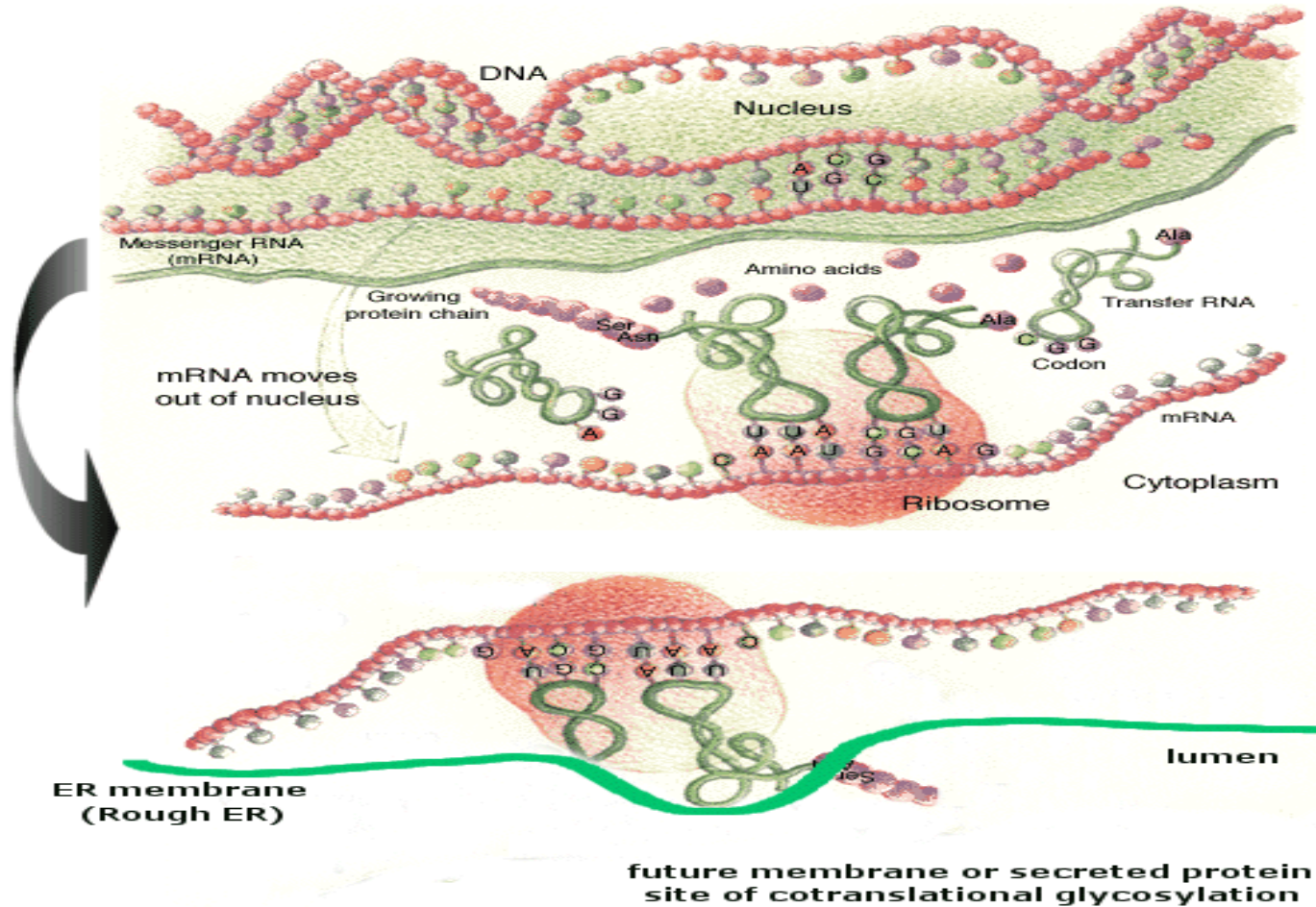
Biography

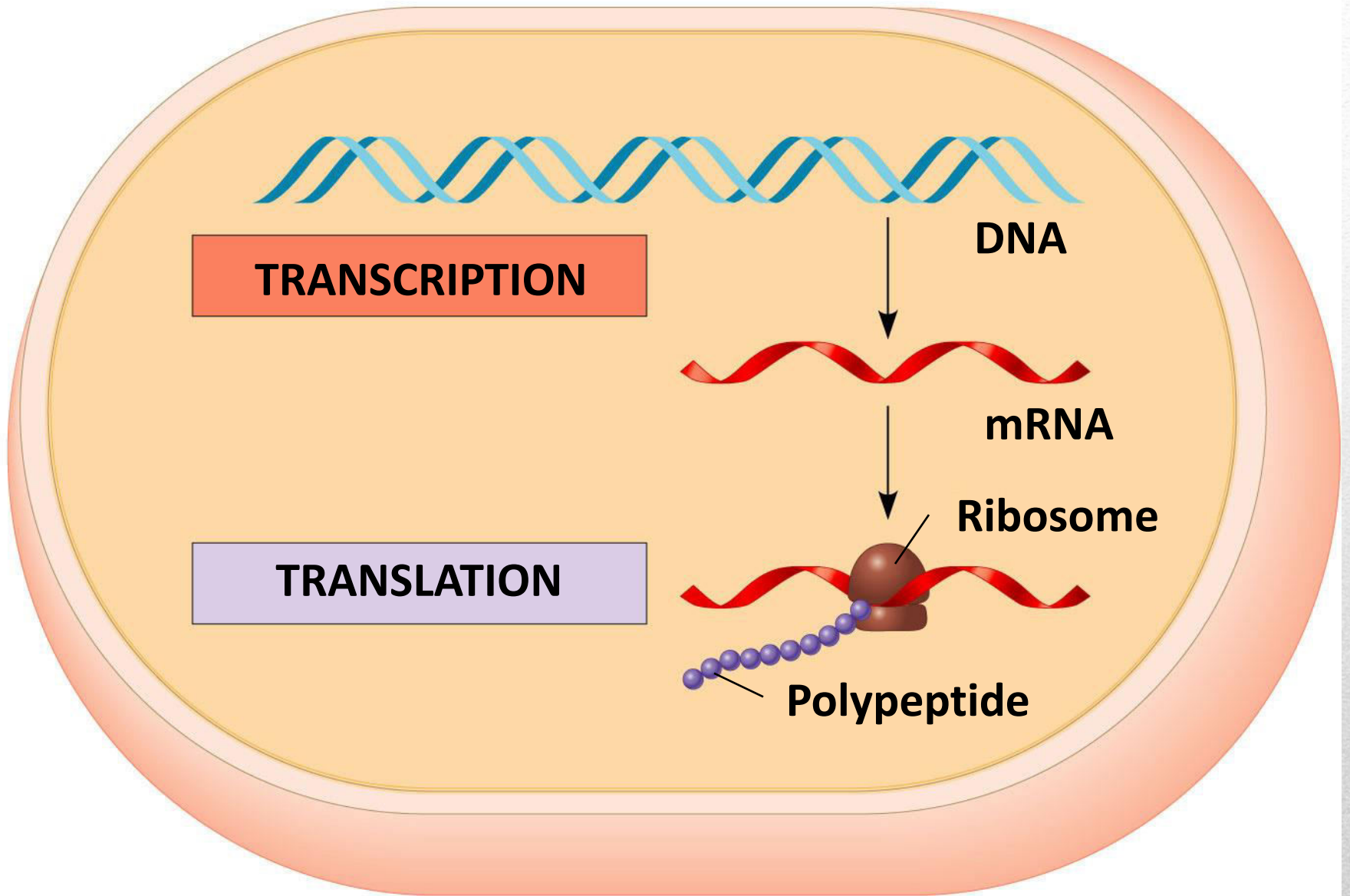
Dipankar Chatterji obtained his PhD from Indian Institute of Science in Bangalore, India during 1977. Later he spent 3 years as a postdoctoral fellow at Albert Einstein Medical college and State University of New York at Stony Brook, USA and later joined CCMB, Hyderabad as a scientist. He moved to Indian Institute of Science at Bangalore during 1999 as a Professor at Molecular Biophysics Unit. He was a visiting Professor of National Institute of Genetics, Mishima, Japan and visited number of countries throughout the world. He is an honorary professor of many institutes and received several national and international awards. Prof. Chatterji is actively involved in policy making process for scientists in developing world and a fellow of the Academy of the developing world TWAS. He has published more than 125 international papers and guided 20 students for PhD degree. He is a member of the editorial boards of several journals. He is currently the President of Indian Academy of Sciences. He has published more than 150 International papers and guided 30 students for PhD degree.

Research Interest

Dipankar Chatterji major area of research involves regulation of gene expression in prokaryotes under stress, DNA-Protein interaction, biology at the level of single molecules.

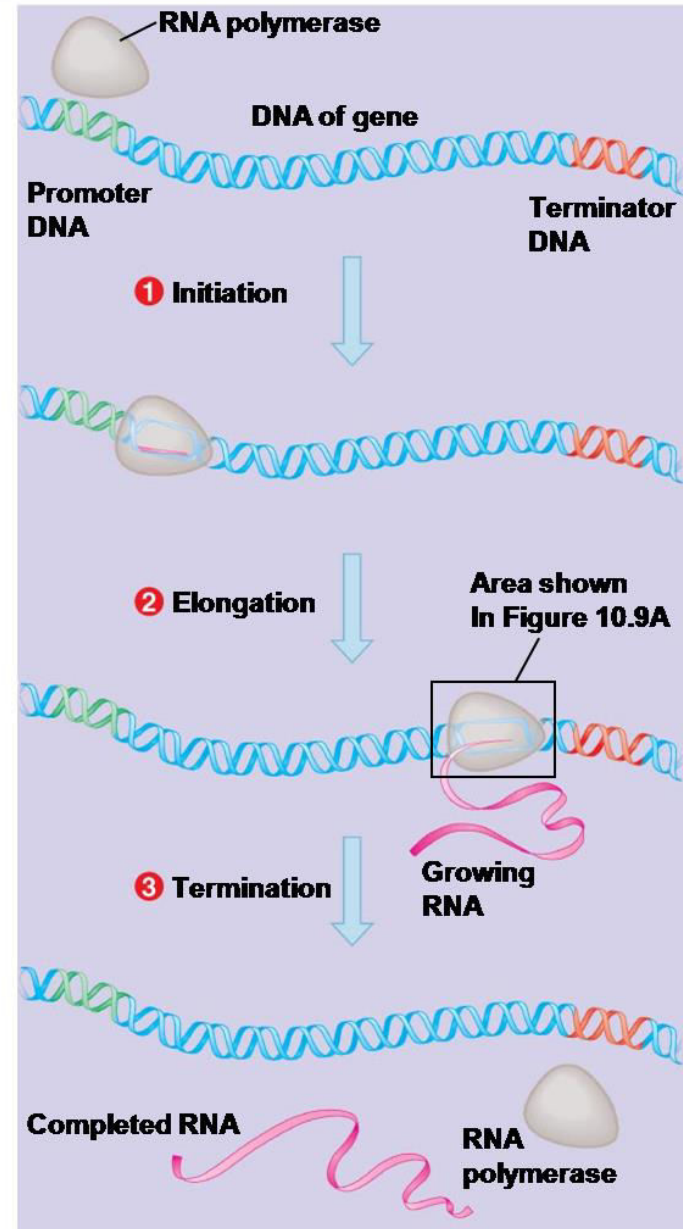
DNA → RNA → Protein → Trait





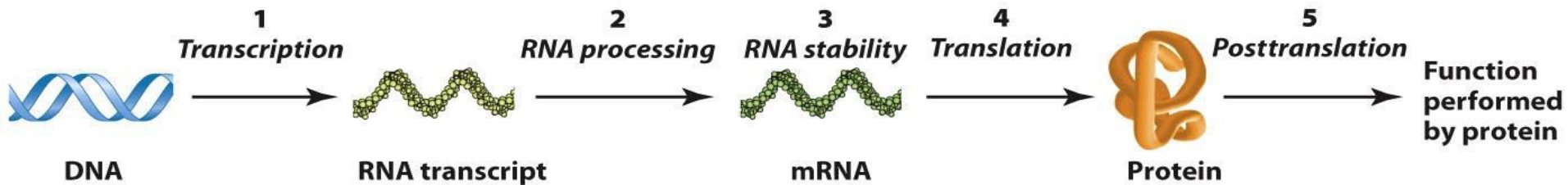
(a) Prokaryotic cell

**transcription of
DNA to mRNA
starts at the
promoter, ends
at the terminator**



Regulation of Gene Expression in Prokaryotes

Levels at which gene expression is regulated in prokaryotes



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▶ Mechanisms that involve the rapid **turn-on and turn-off** of gene expression in response to environmental changes. **“Plasticity-----adaptability”**

▶ Preprogrammed **circuits or cascades or system or pathways** of gene

Expression. **“Proper sequence of events”**

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Signature

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Journal of Physical Chemistry & Biophysics Related Journals

- [Journal of Electrical & Electronic Systems](#)
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Gynecology & Obstetrics Related Conferences

- 3rd International Conference and Exhibition on Lasers, Optics & Photonics



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