

## CURRICULUM VITA

A.B. RUBIN

Rubin Andrei Borisovich, Ph. D., Full Doctor of Biological Science, Professor, Academician of the Russian Academy of Sciences of Russia, Head of Department of Biophysics, Faculty of Biology, Lomonosov' Moscow State University, Moscow 119234.

### *Personal Data*

Rubin Andrei Borisovich, born in Moscow 1937, August 31, married, has two children.

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### *Education*

1969 - D.Sc. dissertation "Mechanisms of regulation of complex biological systems".

1963 - Ph.D. dissertation, title of PH.D. dissertation "Deactivation processes of excited pigment molecules in photosynthetic organisms." Supervisors: Prof. L.A. Tumerman, Prof. A.A. Krasnovskii.

1959 - 1962 - Postgraduate student of Biological faculty, Dep. of biophysics, Moscow State University.

1954 - 1959 - Student of Biology faculty, Dep. of Biophysics, Moscow State University

### *Professional employment*

1976 till now - Chair of the Department of Biophysics, Faculty of Biology, Moscow State University, Moscow 119234.

1967 - 1976 - Head of Space Biology laboratory of Biology faculty, Moscow State University.

1964 - 1967 - Senior scientist of Space Biology laboratory.

1962 - 1964 - Assistant Professor, Department of Biophysics, Faculty of Biology, Moscow State University.

## *Professional Organization*

Academician of Russian Academy of Sciences (2022)

Chairman of National Committee of Russian Biophysicists

Head of Scientific Council on Biophysics of Russian Academy of Sciences.

The member of RAS Council on the Space Biology and Biological Membranes.

A.B.Rubin is one of the leading specialists in biophysics in Russia. His research concerns biophysics of photosynthesis, modeling and thermodynamic of complex systems and cellular mechanisms of regulation at molecular level. A.B.Rubin has conducted investigations on the kinetics and mechanisms of ultrafast energy transduction in photosynthetic and other energy-transducing photosynthetic biological membranes. Qualitative stochastic models of conformational mobility of proteins have been developed. The concept applied in these models is a step forward toward understanding the structural dynamic organization of membrane proteins and links between the intramolecular dynamics and biological function of the membrane proteins. His research concerns also applied aspects of biophysics in ecology and biotechnology, the development of biophysical express methods of water quality evaluation, express methods of detection of plant resistance to different injuring factors (high and low temperatures, fungal and viral diseases, chemical pollution etc.).

The Department of Biophysics of Biology Faculty of Moscow State University is the leading center of biophysical science and education in Russia. A.B.Rubin is involved deeply in training specialists-biophysicists. Much attention he gives to biophysical education. He is the author of a textbook on biophysics edited in Russia in three volumes in 2013 and awarded by Lomonosov premium in 1992 and 2019.

Laureate of the MV Prize Lomonosov for pedagogical activities of the teachers of Moscow University for 2018.

Laureate of the K.A.Timiryazev Prize 2016

Distinguished Professor of Moscow State University (2001).

Honored Worker of the Higher School of the Russian Federation (1997).

Laureate of the A. A. Krasnovsky Prize in the field of photochemistry and photosynthesis (1996).

Laureate of the Lomonosov Prize of Moscow State University (1992).

Laureate of the State Prize (1988).

***Publications***

A.B.Rubin is the author of more than 900 papers and 46 books.