SCIENTIFIC RESEARCHER 1STDEGREE, UNIVERSITY PROFESSOR IOAN ARDELEAN, PHD IN MEMORIAM



1957 - 2023

Professor Ioan Ardelean, first degree scientific researcher in the Department of Microbiology of the Institute of Biology Bucharest of the Romanian Academy, had a significant contribution to the development of researches on cyanobacteria, recognized nationally and internationally. During his entire professional activity, he was a model for collaborators, students and PhD students who carried out their theses under his supervision. Endowed with outstanding human and professional qualities, he managed to overcome the difficulties of the research and education system from the period of professional activity without straying from a collegial communication marked by professional qualities.

Born on March 10, 1957, he attended the Faculty of Biology at the University of Bucharest between 1977 and 1981, followed by a year of specialization (1981–1982), assimilated with the M.Sc. degree at the same academic institution. In 1997, he obtained the scientific title of PhD in Biology (in Microbiology) at the Bucharest Institute of Biology of the Romanian Academy, under the coordination of Academician G. Zarnea. He participated in several international professional training courses as follows: 1990 – *Global regulation of gene expression in microorganisms*, Spetsai, Greece; 1991 – *International meeting on the regulation of chloroplast biogenesis ARW*, Lecture Course, Crete, Greece; 1999 – Université Francophone – *CEFOR* – *Cours de formation post-universitaire dans le domaine des sciences de la life*, cours international de Microbiologie; 2003–2004 – *GLP (Good Laboratory Practice) courses*. Also, he participated at 16 internships in international laboratories (Japan, Czech Republic, Austria, France, Great Britain, Sweden) based on different types of NATO scholarships, FEBS, FEMS, Romanian

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Academy (interacademic exchange), etc. During his rich professional career, he participated in over 50 international congresses, conferences and symposia.

In the period 1982–1984, he worked as a teacher at Harsova Agroindustrial High School and from 1984 he started to work in the research field at the Institute of biology Bucharest, holding the positions of biologist (1984-1990), scientific researcher (1990-1995), researcher scientist IIIrd degree (1995-1999), scientific researcher IInd degree (1999–2004) and from 2004 scientific researcher Ist degree. Between October 2008 – November 2014 he works in the Faculty of Natural Sciences, "Ovidius" University of Constanta as a Professor of General Biotechnology, Biodiversity microorganisms, microbiology, of Marine microbiology and Molecular microbiology. In 1998 he received the award "Emil Racoviță" of the Romanian Academy and in 2011 the Albert Einstein Award of Excellence (American Biographical Institute).

In 1998 he was a visiting professor (professeur 2eme classe) at the University of Aix-Marseille. He was a PhD coordinator and he was also invited as official referent in the commissions for public presentation of PhD theses at the University of Agronomic Sciences and Veterinary Medicine, Seville University, Banaras Hindu University, Thiruchirapali University (as external referent).

He has important contributions in studies of cyanobacteria that carry out an oxygenic type of photosynthesis, with the intervention of two types of photosystems, photosystem I (FSI) and photosystem II (FSII) responsible for the conversion of light energy in these prokariotic organisms, whose thylakoid membranes are the place of both synergons: the photosynthetic and respiratory ones, the two processes having common electron transporters. His researches were carried out especially on Synechocystis PCC 6803 strain which has the ability to synthesize soluble cytochrome c6, which can function instead of plastocyanin.

He coordinated more than ten research projects as project director and he has two patents (at one of them having the quality of first author): 1) "Biotechnological process for stimulating the increase in the amount of biomass of Chlorella sorokiniana UTEX 1230"; Patent application number: A/00561/17.09.2021; Authors: Ardelean Ioan, Moisescu Cristina, Ardelean Ana-Valentina; Negut Daniel Constantin, and 2) "Platinum electro catalysts obtained by bio electrochemical conversion of used auto catalysts and process for obtaining them"; Patent application number: A/00206/26.04.2021; Authors: Stamatin Serban Nicolae, Moisescu Cristina, Iacob Matei Tom, Ghinea Adrian, Diac Cornelia, Maxim Iuliana Florentina, Ardelean Ioan, Nichita Cornelia, Stamatin Ioan.

Professor Ardelean is also the author of four books and several book chapters, of over 100 scientific works published in specialized journals with significant impact on the development of knowledge in the field of biology and biochemistry of cyanobacteria. He will remain in the memory of his colleagues as a professional, a supporter of young researchers, with special human qualities and a remarkable humor marked by a fine irony communicated with diplomatic skills harder to match.

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