

CURRICULUM VITAE

Professor AUREL I. POPESCU

I. PERSONAL DATA

Official Address: Department of Electricity, Physics of Solid and Biophysics, Faculty of Physics,
University of Bucharest
Bucharest-Magurele, POBox MG 11, **Romania**. Tel./Fax. + (4021) 457 45 21
E-Mails : prof.aurel.popescu@gmail.com
aurel.popescu@fizica.unibuc.ro

II. EDUCATION

University Degrees: Faculty of Physics, University of Bucharest (1964 - 1969)
PhD in Physics (Biophysics). Thesis: *Contributions to the Study of the Electrical Properties of Cellular Surfaces*, University of Bucharest (1979)

Languages: **Romanian** (mother tongue), **English** (fluently), **French** (fluently), **Italian** (well),
Russian (scholar level), **German** (scholar level), **Spanish** (scholar level)

III. PREVIOUS AND ACTUAL OCCUPATIONS

Researcher at Oncologic Institute of Bucharest (1969-1975)
Researcher at Biophysics Department, Medical Faculty of Medicine, Bucharest (1975-1981)
Lecturer at Department of Biophysics, Faculty of Physics (1981-1990)
Associate Professor, Faculty of Physics (1990-1996)
Full Professor, Faculty of Physics, University of Bucharest (1996-2012)
Professor Emeritus, Faculty of Physics, University of Bucharest (2012)
PhD Supervisor in the field of **Biophysics/Medical Physics** (2000-present)

IV. PREVIOUS AND ACTUAL FUNCTIONS

First President of National Society for Pure and Applied Biophysics of Romania: 1990-1992
Vice-President of National Society for Pure and Applied Biophysics of Romania: 1994-2001
Re-elected for the periods: 2001-2004
Funding member of the first periodical of Biophysics from Romania: *Romanian J. Biophysics*
(first issue: 1991)
Member of the Editorial Committee of the *Romanian Journal of Biophysics* (1991-present)
Member of the Editorial Board of the *Romanian Report in Physics* (2001-present)
Member of the Advisory Board of the *Journal of Optoelectronics and Advanced Material* (since 1999)
Head of the Department of Electricity and Biophysics, Faculty of Physics (2000-2010)
Director of the Dept. of Electricity, Solid State and Biophysics, Faculty of Physics (2010-2011)
Member of the Council of the Faculty of Physics, University of Bucharest (1990-2010)
Dean of the Physics Faculty (1992-1996)
Member of the Senate of the University of Bucharest (1992-2000)
Member of the Physics Commission of the National Council for Attestation of Titles,
and Diploma (2000-2003)
Regular Associate, ICTP, "Abdus Salam", Trieste, Italy (1995-1999)
Senior Associate, ICTP, "Abdus Salam", Trieste, Italy (2000-2007)
Courses: Biophysics. Medical Biophysics. Molecular Biophysics. Neural Networks. Bionics.
Tutorship: 30 *PhD Theses* (from 2000). Licence and Master Diploma in Biophysics. Theses for the
Didactic Degree in Physics
Director of the Research Centre in the Field of Molecular Biophysics (BIOMOL). Accredited by CNCSIS.
Certificate No.10/CC-C, 2001 (2001-2012)
Coordinator (and lecturer): **International Course FEBS** "Membrane Transport and Signal
Transduction", București, **Romania**, 24-31 August, 1997
Co-organizer (and lecturer): **International Workshop** "New Biophysical Methods in Medicine and
Biology". *Neptun*, 26-30 September, 2000

Co-organizer: International Workshop “Biological Effects of Ionising Radiations, Electromagnetic Fields and Chemical Toxic Agents” 2-6 October, **2000**, Sinaia, Romania.

V. SPECIALISATIONS

France (7), Italy (8), England (1), Germany (1), Portugal (1), USA (2)

VI. SCIENTIFIC ACTIVITY

Fields: 1. Electrical Properties of Cellular Surfaces
2. Non-Specific and Specific Cellular Interactions
3. Bionics and Optimal Design Principle
4. Natural and Artificial Neural Networks
5. Protein Structure and Protein-Ligand Specific Interactions

VII. PUBLICATIONS: 122

1. **Papers:** **96** in refereed scientific literature.
2. **Books (9):** **7** of Biophysics, Bionics and Medical Biophysics (in Romanian)
(five: single author)
1 Integrated Molecular and Cellular Biophysics, **Springer, 2008**
1 Biophysics. Current Status and Future Trends
Romanian Academy Publishing House, 2016
3. **Chapters (7):** **3** in Romanian books (**1977, 2021, 2022**), **2** in books published by
Springer (1984), Elsevier (2003), and other **2** by **Springer (2017, 2021)**
4. **Electronic publication:** **1**
5. **Proceedings:** **8**
6. High school books **2**
7. **941 scientific citations (h-index 15; i10-index 24):**
<https://scholar.google.ro/citations?user=Qtlp4-gAAAAJ&hl=en>

VIII. INVITED CONFERENCES/SEMINARS:

7 in Romania and
13 abroad

IX. DISTINCTIONS:

Romanian Academy Prize “Stefan Procopiu”, **1998**
Excellence Diploma of the Romanian Society of Pure and Applied Biophysics, **2001**
Excellence Diploma of the Education and Research Ministry, **2002**
Diploma “Anul International al Fizicii” Facultatea de Fizica-MEC, **2005**
Excellence Diploma of the Education and Research Ministry, **2012**
Emeritus Professor Diploma, University of Bucharest, **2012**
Diploma “Emeritus Professor of the Year” of the Senate of the University of Bucharest, **2017**
Romanian Academy Prize “Nicolae Simionescu”, **2017 (Ch. 2 and 4. In: The Physics of the Mind and Brain Disorders**, Eds. Ioan Opris and Manuel Casanova, **Springer-Nature, 2017)**

X. OTHERS:

Visiting Professor: Physical Biochemistry Department, University of Bielefeld, **Germany, 1999**
Professeur invité: Institut Curie, Unité de Biophysique Moléculaire, Université *Paris-Sud*, Orsay, **2002**
Visiting Professor: Department of Physics, University of Wisconsin, Milwaukee, **USA, 2005**
Professeur invité: Institut de Pharmacologie et Biologie Structurale, Université *Paul Sabatier*
Toulouse, **France, 2006**
Visiting Professor: Department of Physics, University of Wisconsin, Milwaukee, **USA, 2016**

Professor Aurel Popescu

A handwritten signature in black ink, appearing to read 'A. Popescu', written in a cursive style.