

# CURRICULUM VITAE

Professor AUREL I. POPESCU

## I. PERSONAL DATA

## 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:** 98 in refereed scientific literature.
2. **Books (8):** 6 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. **1143 scientific citations (h-index 17; i10-index 28):**  
<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**

02 September 2024

Professor Aurel Popescu