

# 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  
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## 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 (8):** **6** of Biophysics, Bionics and Medical Biophysics (in Romanian)  
(four: 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. **925 scientific citations (h-index 15; i10-index 22):**  
<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 blue ink, appearing to read 'A. Popescu', with a stylized flourish at the end.