

**HIRSCH: 46;** <https://www.webofscience.com/wos/author/rid/E-2541-2013>

aurel popa wagner



**Education:**

1976-1981 **Diploma** in Biochemistry, University of Bucharest, Romania

1988–1990 **PhD** in Biochemistry Institute of Biochemistry, University of Karlsruhe, Germany

1990-1992 **Postdoc**, Ethel Percy Andrus Gerontology Center, University of Southern California, Los Angeles, USA

1999 **Habilitation** in Internal Medicine and Experimental Neurology, Medical Faculties of Erlangen-Nuerenberg and Greifswald, Germany

**Positions held:**

1988-1990 **Research Assistant**, Institute of Organic Chemistry, University of Karlsruhe, Germany

1990–1991 **Research Assistant**, Ethel Percy Andrus Gerontology Center, University of Southern California

1991-1995 **Assistant Professor**, Institute of Gerontology, Medical Faculty Erlangen-Nuremberg

1996-1998 **Laboratory Head**, Clinic of Neurology, University of Medicine, Greifswald

1999–2004 **Associate Professor** of Neurobiology, Clinic of Neurology, University of Medicine, Greifswald, Ernst-Moritz-Arndt University, Greifswald.

2004-2012 **Professor of Experimental Neurology** at the Department of Neurology and Head of the Research Department, University of Medicine, Greifswald.

2012-2017 **Professor of Experimental Neurology** at the Department of Psychiatry and Head of the Research Laboratory, University of Medicine, Rostock, Germany.

2016-present **Professor of Experimental Neurology** at the Chair of Vascular Neurology and Dementia, Essen University Medical School, University of Medicine, Essen, Germany.

2017-present **Adjunct Professor** at Griffith University School of Medicine, Gold Coast Campus, QLD, Australia

2008-present **Professor of Pathobiochemistry and Experimental Neurology**, University of Medicine and Pharmacy, Craiova, Romania.

2018-present: **Director of the Center for Clinical and Experimental Medicine**. University of Medicine and Pharmacy, Craiova, Romania.

2016-present, **Associate Professor**, Chair of Biochemistry, University of Medicine and Pharmacy “Iuliu Hateganu” Cluj-Napoca

**Editor-in-Chief:**

*Journal of Aging and Restorative Medicine*

**Membership in editorial committees, ISI Journals**

**Associate Editor:**

*BMC Geriatrics* (London)

*Frontiers Ageing Neuroscience*

*Frontiers in Neuroscience*

*Frontiers Cellular Neuroscience*

**Academic Editor**

*“PlosOne”*

**Section Editor**

*“Current Aging Science”*

**Member of the Editorial Board:**

*"Romanian Journal of Morphology and Embryology"*

**BDI Journals**

*"Vascular Cell"*

*"J Gerontology and Geriatric Medicine"*

*"Biochemistry & Analytical Biochemistry"*

*"Reviews in Health Care"*

**Reviewer for grant applications for:**

Netherlands Organisation for Scientific Research

CURE Epilepsy (USA)

Irish Grant Agency

Swish Grant National Agency

Polish Grant Agency

Romania Grant Agency

Hong Kong Grant Agency

Hungarian Grant Agency

MRC (UK)

France (ANR)

**„International Advisory Board” Member, “Society for the Study of Neuroprotection and Neuroplasticity”**

**Honorary Membership, “Serbian Association for anti-Aging Medicine”**

**2012-2015 IBRO Board, Member of the Pan-European Regional Committee**

**National Neuroscience Society of Romania/ Societatea Nationala de Neurostiinte, Vicepresident since 2012.**

**Coordination/Networking activity**

2008-2012 **Coordinator** of Neuroscience Research Programme at the Medical Faculty, Ernst-Moritz-Arndt University, Greifswald;

2010-2012 **Coordinator** of the platform “Molecular Imaging in Neuroscience” at the Medical Faculty, Ernst-Moritz-Arndt University, Greifswald. **Coordinator** of two FP7 projects, one focused on “Molecular mechanisms underlying neurorehabilitation after brain injuries” and the other one on “Molecular imaging in aging and neural repair”

**Conference organizer: Adult Brain regeneration after injuries. First International Workshop: March 25-27, 2010. Greifswald, Germania.**

**Member of the Scientific Committee: The 5th Conference of the National Neuroscience Society of Romania with an IBRO international symposium “From the neuron to the mind and beyond”, Octombrie 2014, Bucuresti.**

**Member of the Scientific Committee The 4th Conference of the National Neuroscience Society of Romania with an IBRO international symposium „Abnormal brain conectivity”, Octombrie 2013, Bucharest.**

## Research interest and expertise

The aim my group is to unravel cellular and molecular mechanisms underlying aging progression and its significance for brain diseases. The group has a long-standing interest in molecular mechanisms of brain remodeling in the aged brain. My group has studied the plasticity of the aging brain in response to stimuli on a background of comorbidities for more than 15 years and to stroke injury for the last 10 years. His group has tested on an aged animal model of stroke various treatments including hypothermia, caloric restriction and stem cells (bone marrow-derived mesenchymal cells, bone marrow-derived mononuclear cells, and microfragmented fat cells of human origin). Recently, we finalized a project using MSC-derived exosomes to improve cellular and behavioral indices of recuperation in aged rats vs young animals. Quite recently, we tested the efficacy of retroviral conversion of glial cells into neurons in lesioned area after stroke in aged animals in an attempt to restore the cellular balance in the neurovascular unit. My group is also interested in circadian rhythmicity and neuropsychiatric diseases.

**Expertise:** aged animals models of cerebral ischemia; behavioral analysis; recording of EEG and various physiological parameters by telemetric measurements; MRI for small animals; immunohistochemical procedures, proteomics, genomics.

## Recent GRANTS: 9

### Amount: 7,2 millions EUROS

2008-2011

Neuroprotective effect of hypothermia. An MRI study.

Grant agreement no: 0314107

Grant money: 3,05 millions Euro

2009-2012

FP7: Improvement of the research competitiveness in neuroscience at the Ernst Moritz Arndt University of Greifswald

Acronym: ImpactG

Grant agreement no.: 229750

Grant money: 1,05 millions Euro

2009-2012

Multimodal Approaches for Regenerative Stroke Therapies. Therapeutic benefit of bone marrow stem cells administered to aged rats after stroke.

Acronym: MARS

Grant agreement no: 01GN0982;

Grant money: 760.000 Euro

2010-2013

FP7: Improvement of the research competitiveness in molecular imaging at the Ernst Moritz Arndt University of Greifswald

Acronym: EnVision

Grant agreement no.: 264143

Grant money: 2,15 millions Euro

2011-2014

Age-related deterioration of biological pathways and their significance for brain tissue regeneration and functional recuperation after stroke

Acronym: Regeneratome

Grant agreement no: PN-II-ID-PCE-2011-3-0848 IDEI

Grant money: 410.000 Euro

2012-2015

Cellular therapy of stroke

Acronym: CELEST

Grant agreement no: PCCA 80/2012

Grant money: 410.000 Euro

2011-2012 "Systemic regulatory mechanisms to cope with persistent energy excess in aging systems"

Grant agreement no: MOE 10/73

Grant money: 24.000 EURO

2016-2021 Horizont 2020 "Comorbid Conditions of ADHD (CORA)"

Grant Agreement no 667302

Grant money: 6 mil EURO

2016-2019 "Restore cell balance in the aged brain after stroke by direct in vivo reprogramming technology" (REPROSTROKE) PN-III-P4-ID-PCE-2016-0340. Funds: 185.000 Euro

2017-2019 "Development of a novel stem cell-seeded hydrogel to support the recovery of brain structure and function after stroke" (STEMSTROKE) PN-III-CERC-CO-PED-2016. Funds: 115.000 Euro

2020-2023 **ERANET-Neuron** project: Identification and clinical validation of biomarkers for long-term outcome after cerebral ischemia (**Coordinator**). Funds: 1,15 Mil Euro

2021-2024 **EURONANOMED** project: "Anti-inflammatory miRNA nanoshuttles as therapeutic strategy for stroke" (**Acronym: Nano4Stroke**)

Funds: 1,209 Mil Euro

2021-2024 **UEFISCDI-PCE**. Gene therapy conversion of activated cortical astrocytes into neurons in an aged mouse model of cerebral ischemia"; PN-III-P4-ID-PCE-2020-059.

Funds: 200,000 Euro

### **Leadership and Mentoring Skills**

Invited to the EU sponsored 'Next generation leaders in Biology of Aging' for Master and PhD students; University of Bologna, Rimini Campus.

- 1) The Role of Aging in Cerebrovascular Disorders
- 2) Cellular Responses to Brain Injuries

**Supervisor of:**

30 PhD works

### **Learning and Teaching**

1) Postgraduate lectures on Neurobiology of Ageing at the University of Medicine Greifswald, Germany

2) Currently teaching Pathobiochemistry for the English Section at the University of Medicine and Pharmacy Craiova, Romania

**ISI PUBLICATIONS: 197**

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