HIRSCH**: 48;** 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-Nurenberg
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 underyling 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.*
Minisymposium organizer EU Programme, Lifelong Learning Programme: Next Generation Leaders in Biology of Ageing. Rimini, June3rd, 2014. Lecture for students: The response of the old brain to injuries.
Long-term cooperation with the University of Medicine and Pharmacy "Iuliu Hateganu" Cluj-Napoca

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 effecst 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
*M*ultimodal *A*pproaches for *R*egenerative *S*troke 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”; Grant No PN-III-P4-ID-PCE-2020-059.
Funds: 200,000 Euro

2023-2026: **EUROPEAN UNION**: Targeting macrophages/ monocytes in the aged ischemic brain by pharmacological, genetic and cell-based tools. Grant No: 760058/2023-2026
Funds: 1,200,000 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: 216

HIRSCH = 48; https://www.webofscience.com/wos/author/rid/E-2541-2013

ISI PUBLICATIONS

185. Capitanescu B, Hermann DM, Surugiu R, Guzman R, Olaru DG, **Popa-Wagner** A. Advances in brain remodeling, stem cell therapies, and translational barriers in stroke and brain aging. Biogerontology. 2025 Jul 11;26(4):143. doi: 10.1007/s10522-025-10282-3.

184. Pirscoveanu DFV, Olaru DG, Hermann DM, Doeppner TR, Ghinea FS, **Popa-Wagner** A. Immune genes involved in synaptic plasticity during early postnatal brain development contribute to post-stroke damage in the aging male rat brain. Biogerontology. 2025 Feb 18;26(2):60. doi: 10.1007/s10522-025-10203-4; F.I.=4.3

183. Grești A, Hermann DM, Boboc IKS, Doeppner TR, Petcu E, Semida GF, **Popa-Wagner** A. Glial Cell Reprogramming in Ischemic Stroke: A Review of Recent Advancements and Translational Challenges. Transl Stroke Res. 2025 Feb 4. doi: 10.1007/s12975-025-01331-7. F.I.=3.8

182. Burdusel D, Doeppner TR, Surugiu R, Hermann DM, Olaru DG, **Popa-Wagner** A. The Intersection of Epigenetics and Senolytics in Mechanisms of Aging and Therapeutic Approaches. Biomolecules. 2024 Dec 26;15(1):18. doi: 10.3390/biom15010018

181. Grigore M, Gresita A, Hermann DM, Doeppner TR, Gheorman V, Glavan D, **Popa-Wagner** A. Regulation of circadian gene activity in fibroblasts from ADHD patients through Rosiglitazone: a pilot study. J Neural Transm (Vienna). 2025 May;132(5):709-721. doi: 10.1007/s00702-025-02883-6. F.I.=3.5

181. Grigore M, Ruscu MA, Hermann DM, Colita IC, Doeppner TR, Glavan D, **Popa-Wagner** A. Biomarkers of cognitive and memory decline in psychotropic drug users. J Neural Transm (Vienna). 2024 Oct 8. doi: 10.1007/s00702-024-02837-4.

180. Colita E, Mateescu VO, Olaru DG, **Popa-Wagner** A. Cognitive Decline in Ageing and Disease: Risk factors, Genetics and Treatments. Curr Health Sci J. 2024 Apr-Jun;50(2):170-180. doi: 10.12865/CHSJ.50.02.02.

179. Mușat MI, Cătălin B, Hadjiargyrou M, **Popa-Wagner** A, Grești A. Advancing Post-Stroke Depression Research: Insights from Murine Models and Behavioral Analyses. Life (Basel). 2024 Sep 3;14(9):1110. doi: 10.3390/life14091110.

178. Wei W, Lattau SSJ, Xin W, Pan Y, Tatenhorst L, Zhang L, Graf I, Kuang Y, Zheng X, Hao Z, **Popa-Wagner A**, Gerner ST, Huber S, Nietert M, Klose C, Kilic E, Hermann DM, Bähr M, Huttner HB, Liu H, Fitzner D, Doeppner TR. Dynamic Brain Lipid Profiles Modulate Microglial Lipid Droplet Accumulation and Inflammation Under Ischemic Conditions in Mice. Adv Sci (Weinh). 2024 Sep 9:e2306863. doi: 10.1002/advs.202306863.

177. Ghinea FS, Ionică MV, Liliac IM, Pătru S, Olaru DG, **Popa-Wagner** A. The Impact of Juvenile Microglia Transcriptomics on the Adult Brain Regeneration after Cerebral Ischemia. Curr Health Sci J. 2024 Jan-Mar;50(1):133-150. doi: 10.12865/CHSJ.50.01.17.

176. Mihaela Abuzan, Roxana Surugiu, Chen Wang, Ayan Mohamud-Yusuf, Tobias Tertel, Bogdan Catalin, Thorsten R. Doeppner, Bernd Giebel, Dirk M. Hermann, **Aurel Popa-Wagner**. Transl Stroke Res. 2024 Sep 7. doi: 10.1007/s12975-024-01266-5.

175. Cercel, A., Boboc, IKS., Surugiu, R., Doeppner, TR, Hermann, DM., Catalin, B., Gresita, A., **Popa-Wagner**, A. (2025) Grafts of hydrogel-embedded electrically stimulated subventricular stem cells into the stroke cavity of mice improved cell survival and behavior. Neural Reg Res, 21(2):695-703. doi: 10.4103/NRR.NRR-D-23-02092.

174. Burdusel D, Coman C, Ancuta DL, Hermann D, Doeppner T, Gresita A, **Popa-Wagner** A. Translatability of life-extending pharmacological treatments between different species. *Aging Cell*. 2024 May 26:e14208. doi: 10.1111/acel.14208. **IF = 8.0**

173. Pinosanu, L. R., Boboc, I. K. S., Balseanu, T. A., Gresita, A., Hermann, D. M., **Popa-Wagner***, A., & Catalin, B. (2024). Beam narrowing test: a motor index of post-stroke motor evaluation in an aged rat model of cerebral

ischemia. *Journal of neural transmission* (Vienna, Austria: 1996), 10.1007/s00702-024-02768-0. *Corresponding author. **IF = 4,0**

172. Ruscu, M., Glavan, D., Surugiu, R., Doeppner, T. R., Hermann, D. M., Gresita, A., Capitanescu, B., & **Popa-Wagner**, A. (2024). Pharmacological and stem cell therapy of stroke in animal models: Do they accurately reflect the response of humans?. *Experimental neurology*, *376*, 114753. https://doi.org/10.1016/j.expneurol.2024.114753. IF =5,3

171. Ruscu M, Capitanescu B, Rupek P, Dandekar T, Radu E, Hermann DM, **Popa-Wagner** A. (2024) The post-stroke young adult brain has limited capacity to re-express the gene expression patterns seen during early postnatal brain development. *Brain Pathol*. Jan 10:e13232. doi: 10.1111/bpa.13232. **IF =5,8**

170. Pan Y, Xin W, Wei W, Tatenhorst L, Graf I, **Popa-Wagner** A, Gerner ST, Huber SE, Kilic E, Hermann DM, Bähr M, Huttner HB, Doeppner TR. Knockdown of NEAT1 prevents post-stroke lipid droplet agglomeration in microglia by regulating autophagy. *Cell Mol Life Sci*. 2024 Jan 12;81(1):30. doi: 10.1007/s00018-023-05045-7. **IF =6,2**

169. Pluta R, **Popa-Wagner** A, Hermann DM. Editorial: Global excellence in cellular neuropathology: Europe. *Front Cell Neurosci*. 2023;17:1289444. Published 2023 Oct 25. doi:10.3389/fncel.2023.1289444. **IF = 4.2**

168. Colita D, Burdusel D, Glavan D, Hermann DM, Colită CI, Colita E, Udristoiu I, **Popa-Wagner** A. Molecular mechanisms underlying major depressive disorder and post-stroke affective disorders. *J Affect Disord*. 2024 Jan 1;344:149-158. doi: 10.1016/j.jad.2023.10.037. Epub 2023 Oct 10. PMID: 37827260. **IF = 4.9**

167. Yin D, Wang C, Qi Y, Wang YC, Hagemann N, Mohamud Yusuf A, Dzyubenko E, Kaltwasser B, Tertel T, Giebel B, Gunzer M, **Popa-Wagner** A, Doeppner TR, Hermann DM. Neural precursor cell delivery induces acute post-ischemic cerebroprotection, but fails to promote long-term stroke recovery in hyperlipidemic mice due to mechanisms that include pro-inflammatory responses associated with brain hemorrhages. *J Neuroinflammation*. 2023 Sep 15;20(1):210. doi: 10.1186/s12974-023-02894-8. PMID: 37715288. **IF =9,8**

166. Xin W, Pan Y, Wei W, Tatenhorst L, Graf I, **Popa-Wagner** A, Gerner ST, Huber S, Kilic E, Hermann DM, Bähr M, Huttner HB, Doeppner TR. Preconditioned extracellular vesicles from hypoxic microglia reduce poststroke AQP4 depolarization, disturbed cerebrospinal fluid flow, astrogliosis, and neuroinflammation. *Theranostics*. 2023 Jul 24;13(12):4197-4216. doi: 10.7150/thno.84059. PMID: 37554272. **IF =6,2**

165. Soancă A, Leucuța DC, Roman A, Ciurea A, Negucioiu M, Pascu LC, Picoș A, Delean AG, Micu IC, **Popa Wagne**r* A, Rusu D. The Treatment of Severe Periodontitis Using a Local Antiseptic Desiccant and Subgingival Mechanical Instrumentation: A Pilot Study. *J Clin Med*. 2023 Jun 26;12(13):4286. doi: 10.3390/jcm12134286. PMID: 37445321. *Corresponding author. **IF = 4,2**

164. Ruscu M, Cercel A, Kilic E, Catalin B, Gresita A, Hermann DM, Albu CV, **Popa-Wagner** A. Nanodrugs for the Treatment of Ischemic Stroke: A Systematic Review. *Int J Mol Sci*. 2023 Jun 28;24(13):10802. doi: 10.3390/ijms241310802. PMID: 37445979. IF = 5,9

163. Beker MC, Aydinli FI, Caglayan AB, Beker M, Baygul O, Caglayan A, **Popa-Wagner** A, Doeppner TR, Hermann DM, Kilic E. Age-Associated Resilience Against Ischemic Injury in Mice Exposed to Transient Middle Cerebral Artery Occlusion. *Mol Neurobiol*. 2023 Aug;60(8):4359-4372. doi: 10.1007/s12035-023-03353-4. Epub 2023 Apr 24. PMID: 37093494. IF = 4,70

162. Boston B, Ipe D, Capitanescu B, Gresita A, Hamlet S, Love R, Hadjiargyrou M, Huang CL, Nusem I, Miroiu RI, **Popa-Wagner A**, Warnke PH, Petcu EB. Medication-related osteonecrosis of the jaw: A disease of significant importance for older patients. *J Am Geriatr Soc*. 2023 May 24. doi: 10.1111/jgs.18414. **IF = 7,52**

161. Fazlallah Afshangian, Jack Wellington, Ismail Bozkurt, Kaan Yagmurlu, Ehsan Baradran Sirjani & **Aurel Popa Wagner** (2023) The impact of visual and motor skills on ideational apraxia and transcortical sensory aphasia, *Applied Neuropsychology Adult*, DOI: 10.1080/23279095.2023.2204527; **IF = 2,12**

160. Surugiu R, Burdusel D, Ruscu MA, Cercel A, Hermann DM, Cadenas IF, Popa-Wagner A. Clinical Ageing. *Subcell Biochem*. 2023;103:437-458. doi: 10.1007/978-3-031-26576-1_16. PMID: 37120476. **IF = 5,39**

159. Beker MC, Aydinli FI, Caglayan AB, Beker M, Baygul O, Caglayan A, **Popa-Wagner A**, Doeppner TR, Hermann DM, Kilic E. Age-Associated Resilience Against Ischemic Injury in Mice Exposed to Transient Middle Cerebral Artery Occlusion. *Mol Neurobiol*. 2023; doi: 10.1007/s12035-023-03353-4. Epub ahead of print. PMID: 37093494. **IF = 5,59**

158. Boldeanu LC, **Popa-Wagner*** A, Boariu M, Stratul SI, Rusu D, Vela O, Roman A, Surlin P, Kardaras G, Chinnici S, Vaduva A. Influence of Section Thickness on the Accuracy and Specificity of Histometric Parameters Using Confocal Laser Scanning Microscopy in a Canine Model of Experimental Peri-Implantitis-A Proof of Concept. *J Clin Med*. 2023; 23;12(7):2462. doi: 10.3390/jcm12072462. PMID: 37048546; PMCID: PMC10095515. *Corresponding author; **IF = 4,2**

157. Coliță CI, Olaru DG, Coliță D, Hermann DM, Coliță E, Glavan D, **Popa-Wagner A**. Induced Coma, Death, and Organ Transplantation: A Physiologic, Genetic, and Theological Perspective. *Int J Mol Sci.* 2023 Mar 17;24(6):5744. doi: 10.3390/ijms24065744. PMID: 36982814; PMCID: PMC10059721. **IF = 6,2**

156. Badoiu A, Mitran SI, Catalin B, Balseanu TA, **Popa-Wagner A**, Gherghina FL, Albu CV, Sandu RE. From Molecule to Patient Rehabilitation: The Impact of Transcranial Direct Current Stimulation and Magnetic Stimulation on Stroke-A Narrative Review. *Neural Plast*. 2023; 2023:5044065. doi: 10.1155/2023/5044065. PMID: 36895285; **IF = 3.15**

155. Godeanu S, Clarke D, Stopper L, Deftu AF, **Popa-Wagner A**, Bălșeanu AT, Scheller A, Catalin B. Microglial morphology in the somatosensory cortex across lifespan. A quantitative study. *Dev Dyn*. 2023; doi: 10.1002/dvdy.582. Epub ahead of print. PMID: 36883224.
IF=2.84

154. Pinosanu LR, Capitanescu B, Glavan D, Godeanu S, Cadenas IFN, Doeppner TR, Hermann DM, Balseanu AT, Bogdan C, Popa-Wagner A. Neuroglia Cells Transcriptomic in Brain Development, Aging and Neurodegenerative Diseases. *Aging Dis*. 2023;14(1):63-83. doi: 10.14336/AD.2022.0621. PMID: 36818562; IF=9.96

153. Burlacu CC, Ciobanu D, Badulescu AV, Chelaru VF, Mitre AO, Capitanescu B, Hermann DM, **Popa-Wagner A**. Circulating MicroRNAs and Extracellular Vesicle-Derived MicroRNAs as Predictors of Functional Recovery in Ischemic Stroke Patients: A Systematic Review and Meta-Analysis. *Int J Mol Sci*. 2022 Dec 23;24(1):251. doi: 10.3390/ijms24010251. PMID: 36613694; PMCID: PMC9820088. **IF =6.20**

152b. Stanomir, A.; Mihu, C.M.; Rednic, S.; Pamfil, C.; Roman, A.; Soancă, A.; Micu, I.C.; Bulboacă, A.E.; Stratul, Ș.I.; **Popa-Wagner***, A.; Pall, E. Oral Mesenchymal Stromal Cells in Systemic Sclerosis: Characterization and Response to a Hyaluronic-Acid-Based Biomaterial. Appl. Sci. 2021, 11, 8101. https://doi.org/10.3390/app11178101. *Corresponding author (BDI)
IF =2.83

152. Raza SS, Azari H, Morris VB, **Popa Wagner A**. Editorial: Advances and challenges in stroke therapy: A regenerative prospective. *Front Neurosci*. 2022;16:1102119. doi: 10.3389/fnins.2022.1102119. PMID: 36578826; PMCID: PMC9791250. **IF =5.15**

151. Coliță D, Coliță CI, Hermann DM, Coliță E, Doeppner TR, Udristoiu I, **Popa-Wagner** A. Therapeutic Use and Chronic Abuse of CNS Stimulants and Anabolic Drugs. *Curr Issues Mol Biol*. 2022;44(10):4902-4920. doi: 10.3390/cimb44100333. PMID: 36286048; PMCID: PMC9600088. **IF =4.20**

150. Boldeanu LC, Boariu M, Rusu D, Vaduva A, Roman A, Surlin P, Martu I, Dragoi R, **Popa-Wagner*** A, Stratul SI. Histomorphometrical and CBCT Evaluation of Tissue Loss Progression Induced by Consecutive, Alternate Ligatures in Experimental Peri-Implantitis in a Dog Model: A Pilot Study. *J Clin Med*. 2022;11(20):6188. doi: 10.3390/jcm11206188. PMID: 36294510; PMCID: PMC9605274. *Corresponding author; **IF =4.20**

149. Costea CA, Christodorescu R, Soancă A, Roman A, Micu IC, Stratul ȘI, Rusu D, Popescu DM, **Popa-Wagner** A, Bulboacă AE. Periodontitis in Ischemic Stroke Patients: Case Definition Challenges of the New Classification Scheme (2018*). J Clin Med*. 2022 Jan 20;11(3):520. doi: 10.3390/jcm11030520. PMID: 35159973; PMCID: PMC8836590. *Corresponding author; **IF =4.20**

148. Doeppner TR, Coman C, Burdusel D, Ancuta DL, Brockmeier U, Pirici DN, Yaoyun K, Hermann DM, **Popa-Wagner** A. Long-term treatment with chloroquine increases lifespan in middle-aged male mice possibly via autophagy modulation, proteasome inhibition and glycogen metabolism. *Aging* (Albany NY). 2022;14(10):4195-4210. doi: 10.18632/aging.204069. PMID: 35609021; PMCID: PMC9186778. **IF =5.95**

147. Gresita A, Mihai R, Hermann DM, Amandei FS, Capitanescu B, **Popa-Wagner** A. Effect of environmental enrichment and isolation on behavioral and histological indices following focal ischemia in old rats. *Geroscience*. 2022 Feb;44(1):211-228. doi: 10.1007/s11357-021-00432-z. Epub 2021 Aug 12. PMID: 34382128; PMCID: PMC8811116. **IF =7.58**

146. Dumitrascu DI, **Popa Wagner** A. Ageing and comorbidities in humans with antigliadin antibodies. *J Gastrointestin Liver Dis*. 2022 Sep 16;31(3):368-358. doi: 10.15403/jgld-4465. PMID: 36112711. **IF=2.65**

145. Dumbrava DA, Surugiu R, Börger V, Ruscu M, Tertel T, Giebel B, Hermann DM, **Popa-Wagner** A. Mesenchymal stromal cell-derived small extracellular vesicles promote neurological recovery and brain remodeling after distal middle cerebral artery occlusion in aged rats. *Geroscience*. 2022; 44(1):293-310. doi: 10.1007/s11357-021-00483-2. Epub 2021 Nov 10. PMID: 34757568; PMCID: PMC8811093. **IF =7.58**

144. Raza SS, Azari H, Morris VB, **Popa Wagner** A. Editorial: Advances and challenges in stroke therapy: A regenerative prospective. *Front Neurosci*. 2022 Dec 12;16:1102119. doi: 10.3389/fnins.2022.1102119. PMID: 36578826; PMCID: PMC9791250. **IF =5.15**

143. Wang C, Börger V, Mohamud Yusuf A, Tertel T, Stambouli O, Murke F, Freund N, Kleinschnitz C, Herz J, Gunzer M, **Popa-Wagner** A, Doeppner TR, Giebel B, Hermann DM. Postischemic Neuroprotection Associated With Anti-Inflammatory Effects by Mesenchymal Stromal Cell-Derived Small Extracellular Vesicles in Aged Mice. *Stroke*. 2022;53(1):e14-e18. doi: 10.1161/STROKEAHA.121.035821. Epub 2021 Dec 1. PMID: 34847707; PMCID: PMC8700303. **IF =10.15**

142. Hermann DM, **Popa-Wagner** A, Peruzzotti-Jametti L, Gunzer M. Editorial: Hot Topics in Cellular Neuropathology. *Front Cell Neurosci*. 2022 Apr 19;16:895861. doi: 10.3389/fncel.2022.895861. PMID: 35518643; PMCID: PMC9063755. **IF =6.15**

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II. BOOK CHAPTERS

11. Daniela Glavan, Aurel Popa-Wagner. Aging, Circadian Rhythms and Molecular Psychiatry. Academica Greifswald, 2019. 978-3-940237-23-1

10. Aurel **Popa-Wagner** & Mario Di Napoli. *Stem Cell Transplants in the Aged Stroke Brain: Microenvironment Factors*. In, **Cellular and Molecular Approaches to Regeneration and Repair** (pp.47-71). Paul A. Lapchak, John H. Zhang (eds) Springer, DOI: 10.1007/978-3-319-66679-2_3. Print ISBN: 978-3-319-66678-5. Online ISBN: 978-3-319-66679-2. Print ISSN: 2363-958X

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1. Aurel Popa-Wagner. Chapter IV - *Alzheimer's disease pathological factors in ischemic aged brain*; in **Ischemia-Reperfusion Pathways in Alzheimer's Disease.** pp. 51-84., Dept. of Neurology, Univ. of Greifswald, Greifswald, Germany. Ed. R. Pluta, NOVA Publishers, 2007. ISBN: 978-1-60021-744-9.

International visibility
Invited Lectures

1) **University of Southern California, Los Angeles, 1990**

On the strategy of directed assembly and its relevance to ageing

2) **International Centre of Genetic Engineering and Biotechnology, Padriciano 99, 34012 Trieste, Italy (1991)**

Differential Expression of Fibronectin and N-CAM mRNA Isoforms During Development and Aging of Rat Hippocampus.

3) **World Congress of Gerontology, Budapest, 1993**

Dynamics of Gene Expression for Fibronectin, GFAP, S100ß, Microtubule-Associated Protein MAP1B, Embryonic α-Tubulin and Late Neural ß-Tubulin mRNAs in the Brain of Aged Rats

4) **Institut of Physiology, The University of Veterinary Medicine, Vienna, 1994**

Dynamics of Gene Expression for Cytoskeletal Proteins mRNAs in the Brain of Aged Rats

5) **University of Erlangen-Nurenberg, 1996**

Pentylenetetrazole-Induced Seizure Upregulates Levels of Microtubule-Associated Protein 1B mRNA and Protein in the Hippocampus of Rat

6) **Institut of Physiology, The University of Veterinary Medicine, Vienna, 1996**

Pentylenetetrazole-Induced Seizure Upregulates Levels of Microtubule-Associated Protein 1B mRNA and Protein in the Hippocampus of Rat. Effects of aging.

7) **University of Erlangen-Nurenberg, 1997**

***Beta**-Amyloid Peptide Immunoreactivity in the Aged Rat Brain Following Middle Cerebral Artery Occlusion*

8) **University of Lund, Sweden, 1997**

Evidence that V^+ Fibronectin, GFAP and S100ß mRNAs are Increased in the Hippocampus of Aged Rats

9) **University of Erlangen-Nurenberg, 1998**

Synaptic plasticity is preserved in the temporal cortex of 20-mo-old rats

10) **University of Erlangen-Nurenberg, 1999**

Increased Expression of Microtubule-Associated Protein 1B in the Hippocampus, Subiculum, and Perforant Path of Rats Treated with a High Dose of Pentylenetetrazole

11) University of Erlangen-Nurenberg, 2000
Upregulation of MAP1B and MAP2 in the Rat Brain Following Middle Cerebral Artery Occlusion: Effect of Age

12) **Symposium on the Neurobiology and Neuroendocrinology of Aging**. **Bregenz**, **Austria, 2002.** *Brain plasticity: to what extent do aged animals retain the capacity to coordinate gene activity in response to acute challenges*

13) Faculty of Medicine, University of Heidelberg-Mannheim, 2002
Brain plasticity: to what extent do aged animals retain the capacity to coordinate gene activity in response to stroke and epileptic seizures

14) University of Heidelberg-Mannheim, 2003. German Society of Neurology
Kindling Status in Sprague-Dawley Rats Induced by Pentylenetetrazole: Involvement of a Critical Development Period

15) **University of Erlangen-Nurenberg, Germany, 2003.** German Society for Aging Research
1. *Functional rehabilitation after stroke. The role of scar, neurogenesis and age*
2. Premature appearance of proliferating cells in the aged brain following stroke

16) **University of Erlangen-Nurenberg, Germany, 2004.** German Society for Aging Research
Inhibition of inflammation after stroke improves the endogenous neurogenesis and functional recuperation after stroke.

17) **University of Karlsruhe, Germany, 2005.** German Society for Aging Research.
Neurorehabilitation after Stroke in Aged Rats: Role of Scar and Neurogenesis

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The response of the aged brain to stroke: Too much, too soon?

19) **Romanian Society for Cell Biology**, **June 13th, 2006**
Cellular and Molecular Mechanisms underlying Neurorehabilitation after Stroke in Aged Rats

20) **Bucharest, September 3rd, 2007. Romania.** The 2nd International Conference of the National Neuroscience Society of Romania. *Cellular and molecular mechanisms of neurorehabilitation after stroke* ISBN[10]: 973-708-153-6

21) **University of Lund, Sweden, 2007**
Cellular and Molecular Mechanisms underlying Neurorehabilitation after Stroke in Aged Rats. Role of stem cells.

22) **Medical School, University of West Virginia, Morgentown, USA, 2007**
Cellular and Molecular Mechanisms underlying Neurorehabilitation after Stroke in Aged Rats. Role of hypothermia.

23) **University of California at Los Angeles (UCLA), USA, 2007**

Cellular and Molecular Mechanisms underlying Neurorehabilitation after Stroke in Aged Rats. Role of enriched environment.

24) **University of Freiburg, Germany, 2007**
Cellular and Molecular Mechanisms underlying Neurorehabilitation after Stroke in Aged Rats. Role of stem cells.

25) **Bucharest, June 2-3, 2007, Romania**
„Gheorghe Marinescu" Symposium of The National Neuroscience Society of Romania with international participation. *Molecular mechanisms underlying neurorehabilitation after stroke in aged animals*, ISBN 978-073-708-240-4

26) **University of Magdeburg. Neuroscience Center, March 17, 2008**
Cellular and Molecular Mechanisms underlying Neurorehabilitation after Stroke in Aged Rats

27) **University of Chisinau, April 2008, Moldova. International Conference.**
Temporal dynamics of degenerative and regenerative events associated with cerebral ischemia in aged rats.

28) **Bucharest, May 30, Romania, 2008.** Al IV-lea Simpozion al Societatii Nationale de Neurostiinte. *Cellular and molecular mechanism underlying post-stroke neurorehabilitation* ISBN 978-973-708-323-4

29) **Cluj, Romania October 2008.** International Workshop
Molecular strategies to improve neurorehabiliattion after stroke in aged rats

30) **Cluj, Romania October 2008.** International Workshop
Imaging in Neuroscience

31) **Craiova, September 2008**. International Workshop.
Gene expression signature in neuroscience

32) **University of Hamburg, September 10, 2008.** German Society of Neurology
*The enriched environment significantly improved the rate and extent of recovery in aged animals***.**

33) **University of Karlsruhe, November 2008.** German Society for Aging Research
Improvement of functional recuperation after stroke by enhanced neurogenesis

34) **University of Regensburg, July 18th. Clinic of Neurology. International Workshop.**
Strategies to improves recuperation after stroke in aged subjects

35) **Vienna,** March 2009: 6th World Congress of Neurorehabilitation (WCNR2010):
Neurobiology of post-ischemic recuperation in the aged rodent brain

36) **Lund,** September, 2009. The 3rd International Hypothermia Symposium**:** *Long-term hypothermia using H_2S acts neuroprotectively in aged rats after focal ischemia*.

37) **Belgrade, Serbia,** June 2010: Congress on Anti-Aging Medicine**:** *Stimulation of neurogenesis in aged subjects improves behavioural recuperation and tissue indices after stroke*

38) **Eforie, Romania,** June 2010: Society for the Study of Neuroprotection and Neuroplasticity: *Stimulation of neurogenesis in aged subjects improves behavioural recuperation and tissue indices after stroke*

39) **Bucharest, Romania,** September 2010: DIASPORA, Exploratory Workshop Meeting**:** *Transcriptomics of Stroke in Aged Rodents and its Relevance for Neurorehabilitation Strategies*

40) **Mannheim, Germany,** September 2010: German Society for Neurology
Improved functional recovery after stroke through enhancement of the endogenous neurogenesis in aged rats

41) **Rostock, Germany,** October 2010. 6th International Conference on Neuroprotection and Neurorepair**:** *Improved functional recovery after stroke through enhancement of the endogenous neurogenesis in aged rats*

42) **Hamburg, Germany, May 2011. German Society for Neurology.** *Improved functional recovery after stroke through enhancement of the endogenous neurogenesis in aged rats by G-CSF treatment.*

43) **Belgrade, Serbia, June 2011.** Congress on Anti-Aging Medicine**:** *Strategies to improve functional recovery after stroke through enhancement of the endogenous neurogenesis in aged rats*

44) **Ulm, Germany, October 2011.** Annual Meeting of the German Association for Aging Research. *Genomics of Stroke in Aged Rodents*

45) **Rostock, Germany**, **September 2011**: Bioinformatics in Aging Research: *Identification of new therapeutics targets by genome-wide analysis of gene expression in the ipsilateral cortex of aged rats after stroke*

46) **Homburg, Germany, November 2011.** Special lecture: *Strategies to improve functional recovery after stroke through enhancement of the endogenous neurogenesis in aged rats*

47) **Potsdam, Germany, May 2012**. International Conference on Neurorepair: *Multimodal Approaches for Regenerative Stroke Therapies (MARS)*

48) **Belgrade, Serbia, May 2012.** Congress on Anti-Aging Medicine**:** *Strategies to improve functional recovery after stroke through enhancement of the endogenous neurogenesis in aged rats*

49) **Galway, August 2012, Ireland**. Meeting of the European Aging Project, FLARE 2.
Animals Models of Aging

50) **Rostock, September 6th, Germany**. 4th Hanse Symposium.
Molecular Neuroscience: Bridging the Gap between Neurology and Psychiatry

51) **IBRO Lecture, Bucharest, September 26, 2012**. The 2nd International Conference of the

National Neuroscience Society of Romania. *Identification of new therapeutic targets by stroketomics*.

52) **Cluj, Romania, November 2nd, 2012**. International Workshop
Cell therapy of stroke. From bench to clinical applications.

53) **Dead See, March 2013, Israel**. 8th European Congress of Biogerontology.
Multimodal approaches for regenerative stroke therapies. Role of the fibrotic scar.

54) **Barcelona, April 9th, 2013, Spain**. Clinic of Neurology. Special lecture:
Multimodal approaches for regenerative stroke therapies. Role of Hypothermia.

55) **Cluj, May 29th, 2013, Romania**. Erasmus-Exchange Programme.
1. *Neuroinflammation after stroke*
2. *Cell therapy of Stroke. Targeting endogenous neurogenesis*

56) **IBRO Lecture, Bucharest, October 17th, 2014**. The 3th International Conference of the National Neuroscience Society of Romania. „*Post-stroke depression and aging*"

57) **Rimini, 2014**. 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 Disorder*
2) *Cellular Responses to Brain Injuries*

58) **Romanian Society for Morphology and Embryology**, May, 2014**.** *Post-stroke angiogenesis. Role of inflammation*

59) **Hermannstadt/Sibiu, June 2014. Annual Meeting of the European Association of Psychosomatic Medicine.** *Poststroke depression: mechanisms, translation and therapy*

60) **Nottingham University, October 2014.** *Current Therapies of Stroke in Experimental Models and Humans*

61) **IBRO Lecture, Bucharest, October 24, 2014.** The 4th International Conference of the National Neuroscience Society of Romania. *The Brain Reserve and Post-Stroke Depression in the Aged*

62) **10.01.2015 Manchester Metropolitan University, UK**
THERAPEUTIC STRATEGIES TO ENHANCE POSTSTROKE RECOVERY OF AGED BRAINS

63) **03. 06.2015 BRAIN DAYS, CLUJ-NAPOCA, ROMANIA**
Combination of granulocyte colony-stimulating factor with and
BM MSC and BM MNCs for stroke treatment in aged rats is not superior to G-CSF alone

64) **05.06.2015 Romanian Society of Morphology, Craiova, Romania**
THERAPEUTIC STRATEGIES TO ENHANCE POSTSTROKE RECOVERY OF AGED BRAINS

65) **11.07.2015 "STEFAN ODOBLEJA", SYMPOSIA, TN. SEVERIN**
MOLECUALR PSYCHAITRY: BRIDGE BETWEEN NEUROLOGY AND PSYCHAITRY

66) **22.09.2015 GERMAN SOCIETY FOR NEUROLOGY, DUESSELDORF, GERMANY**
CURRENT CELL THERAPIES OF STROKE IN AGED ANIMALS

67) 25.09.2015 Society for Neuropsychopharmacology and Pharmacopsychiatry
Munich, Germany. *Molecular Psychiatry: Lighty therapy for ADHD Patients*

68) 28.10.2015 ROMANIAN SOCIETY FOR NEUROSCIENCE, BUCHAREST, ROMANIA
The promise and pitfalls of cell therapy for stroke in the aged brain

69) 07.11.2015 Romanian Society for Psychosomatics, Brasov, Romania.
Post-Stroke Depression: Models and Mechanisms

70) 26.11.2015 GERMAN SOCIETY FOR PSYCHIATRY AND PSYCHOTHERAPY, BERLIN
Human dermal fibroblasts: a tool to study *in vitro* circadian rhythmicity in adult ADHD patients.

71) 20.04.2016 9th Symposium on Neuroprotection and Neuroplasticity, Leipzig, Germany.
Is the aged brain microenvironment refractory to cell therapy?

73) July 17, 2016. 13th International Symposium on Neurobiology and Neuroendocrinology of Aging. Bregenz, Austria, Stem cell therapies in preclinical models of stroke. Is the aged brain microenvironment refractory to cell therapy?

73) 02.10 2016. 2nd International Conference on Aging and Disease, Stanford, California, USA.
Stem cell therapies in preclinical models of stroke. Is the aged brain microenvironment refractory to cell therapy?

74) 24.11.2016 Societatea Romana de Neurostiinte. Bucuresti. Stroke co-morbidities. Role of Neuroinflammation.

75) 24-27.05.2017 Romanian Society of Morphology, Oradea, Romania. Stem cell therapies in preclinical models of stroke. Is the aged brain microenvironment refractory to cell therapy?

76) 20.09.2017 FENS Regional Meeting, Pecs, Hungary
Stem cell therapies for the aged brain after cerebral ischemia

77) 03.11.2017 Academia Romana. Bucuresti. Terapia cu celule stem in modele preclinice de stroke. Este creierul batran refractar la terapia celulara?

78) 18.11.2017. Conferinta Nationala de Neurostiinte, Neuroinformatica, Neurotehnologie si Neuro-Psiho-Farmacologie. Biblioteca Academiei. Bucuresti. Autofagia celulară- țintă de intervenție pentru procesul de Îmbătrânire.

79) 23-26.05.2018. Romanian Society of Morphology, Craiova, Romania. Effects of mesenchymal stem cell-derived exosomes on brain remodeling and plasticity in the aged ischemic brain

80) 15-20.07.2018/ 14th International Symposium on Neurobiology and Neuroendocrinology of Aging. Bregenz, Austria. Caloric restriction stabilizes body weight and accelerates behavioral recovery in aged rats after focal ischemia.

81) 10.09.2018. Aging and Rejuvenation Conference, Rome. Stem cell therapies in preclinical models of stroke. Is the aged brain microenvironment refractory to cell therapy?

82) 01.09.2018. New Trends on Sensing- Monitoring- Telediagnosis for Life Sciences. Bucharest. Restore cell balance in the aged brain after stroke by direct in vivo reprogramming technology

83) 09.10.2018/10th Symposium on Neuroprotection and Neuroplasticity, Dresden, Germany. Functional Recovery after cerebral ischemia. The age effect.

84) 18-19.10.2018. Societatea Romana de Neurostiinte. Bucuresti. Poststroke angiogenesis in aged subjects.

85) 13.07.2019. FENS Regional Meeting, Belgrade. Pharmacological and cell-based therapies of cerebral ischemia in an aged animal model.

86) 5.10.2019. Conferinta Nationala de Psihosomatica. **Cluj-Napoca**. Cognition deficits and depression following secondary neurodegeneration after cerebral ischemia.

87) **Stem cell therapies in preclinical models of stroke. Is the aged brain curable**? Milano, Feb 0ß7, 2020

88) **Genetic conversion of proliferative astroglia into neurons after cerebral ischemia. A new therapeutic tool for the aged brain.** Academia Romana. Nov 19, 2021

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