Call for Papers

GeroScience
Official Journal of the American Aging Association (AGE)

Call for Papers on
Where neuroscience meets geroscience:
Mechanisms at the interface between aging and neurodegeneration

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Guest Editors Dr. Veronica Galvan and Dr. Ferenc Deak and Deputy Editor Dr. Zoltan Ungvari, and the editorial team of GeroScience: Journal of the American Aging Association (AGE) invite submission of original research articles and review articles related to novel mechanisms contributing to the pathogenesis of age-related neurodegenerative diseases. New directions for AD research will be critical to understanding AD pathogenesis and developing effective therapeutic interventions.

This call-for-papers is aimed at providing a platform for the dissemination of critical novel data on mechanisms at the intersection of regulation of aging and the pathogenesis of Alzheimer’s disease from the perspective of geroscience.

Topics include (but are not limited to):

• Mechanisms by which evolutionarily conserved pathways regulating aging processes intersect with Alzheimer's disease pathology

• Developing innovative strategies to identify and target cellular and molecular mechanisms involved in regulation of aging processes for prevention/treatment of neurodegenerations such as AD as well as non-disease associated mechanisms of cognitive decline in animal models of aging.

• Manuscripts which expand our understanding of AD pathogenesis beyond canonical interpretation of Aβ and tau pathology in addition to studies that test predictions based on the amyloid hypothesis of Alzheimer’s disease.
• Role of the aging brain microcirculation in the pathogenesis of Alzheimer's disease, including but not limited to mechanisms and consequences of blood-brain barrier disruption and the buildup of beta-amyloid in vascular wall, as well as mechanisms by which hypertension increases the risk of Alzheimer's disease and the pathophysiological role of cerebral microhemorrhages and cerebomicrovascular dysfunction.

• Molecular mechanisms and functional consequences of alterations in synaptic function as they relate to the progression of neurodegenerative diseases.

• Studies using a variety of experimental approaches, including in vivo studies and investigations using isolated tissue preparations and cultured cells. Translational aspects of AD and other neurodegeneration research.

Those interested in writing cutting edge reviews, commentaries and perspective-type articles should contact the Editors prior to submission.

**Important Dates**

Submissions Deadline: December 15, 2019

All manuscripts will undergo normal peer review. Accepted manuscripts from this Call for Papers will be published online and in Regular issues, marked with the Call for papers title.

**Submission Requirements:**

All papers should follow the manuscript preparation requirements for the GeroScience submissions, see [http://www.springer.com/life+sciences/cell+biology/journal/11357/PSE](http://www.springer.com/life+sciences/cell+biology/journal/11357/PSE)

The authors are requested to submit their manuscripts via the online submission manuscript system, available at [http://www.editorialmanager.com/JAAA/](http://www.editorialmanager.com/JAAA/). During submission, authors should explicitly choose the title of the special issue in the Subject line.

Please indicate in the cover letter that the manuscript is submitted in response to the Call for Papers “Where neuroscience meets geroscience: mechanisms at the interface between aging and neurodegeneration”. Should there be any further enquiries, please feel free to address them to the lead guest editor: Dr. Veronica Galvan [galvanv@uthscsa.edu](mailto:galvanv@uthscsa.edu).