

## Special Issue

# Inherited Disorders in Neurotransmitters: A Molecular, Cellular and Systemic Perspective

### Message from the Guest Editors

Aromatic amino acid decarboxylase (AADC) is a pyridoxal 5'-phosphate-dependent enzyme-producing dopamine and serotonin from L-Dopa and 5-hydroxytryptophan. Genetic mutations in its gene cause a devastating disease called AADC deficiency, which leads to dramatic consequences and premature death. AADC deficiency patients are treated by a combination of drugs (pyridoxine, monoamine oxidase inhibitors, dopamine agonists, and others) to ameliorate the symptoms. Although an increasing number of papers have been published leading to both the identification of mutations in the AADC gene and many case reports about patients, a lot of information regarding molecular causes, cellular effects and systemic approaches is still lacking. This represents a fundamental question for a full understanding that could be the rationale for the development of new drugs. This Special Issue will include a selection of research papers and reviews about different aspects of AADC deficiency, with a particular focus on the molecular and cellular level, as well as the wider approach of system biology.

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### Guest Editors

Dr. Mariarita Bertoldi

Department of Neuroscience, Biomedicine and Movement Sciences,  
University of Verona, 37134 Verona, Italy

Dr. Patrizia Polverino de Laureto

Department of Pharmaceutical Sciences, CRIBI Biotechnology Centre,  
University of Padova, 30131 Padova, Italy

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### Deadline for manuscript submissions

closed (30 April 2022)



## International Journal of Molecular Sciences

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Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[ijms@mdpi.com](mailto:ijms@mdpi.com)

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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### Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences,  
Sez-Biochimica, Faculty of Medicine, Università Politecnica delle  
Marche, Via Ranieri 65, 60100 Ancona, Italy

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