# Special Issue

# Synaptic Plasticity and Diseases

### Message from the Guest Editor

Synaptic plasticity is a basic process in the brain that allows humans and animals to adapt to changes in their environment and is considered the neural basis of learning and memory as well as brain disorders including Alzheimer's disease. Parkinson's disease. autism, schizophrenia, mental retardation, chronic pain and drug addiction. Long-term potentiation (LTP) and long-term depression (LTD) are the most intensively studied forms of activity-dependent synaptic plasticity. It is now clear that that LTP and LTD are involved in many physiological functions and are linked to various brain disorders. An understanding of the cellular and molecular mechanisms of synaptic plasticity could aid the development of effective treatments for brain disorders. This Special Issue will be of interest to basic and clinical researchers involved in studies that focus on synaptic plasticity and diseases.

## **Guest Editor**

Dr. Hiroki Toyoda Graduate School of Dentistry, Osaka University, Suita, Japan

# Deadline for manuscript submissions

closed (30 June 2022)



# International Journal of Molecular Sciences

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### mdpi.com/si/75783

International Journal of Molecular Sciences Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 ijms@mdpi.com

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## Message from the Editor-in-Chief

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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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