

Special Issue

Local Control of Thyroid Hormone Action

Message from the Guest Editor

Thyroid hormones (TH) regulate many cellular processes. The discovery of different (1) TH transporters facilitating TH access to target cells, (2) deiodinases activating or inactivating TH intracellularly, as well as (3) distinct TH receptors and modes of intracellular receptor signaling has challenged this view and has shifted the focus from systemic TH levels toward the molecular components controlling local TH action. A broader understanding of TH transporters, deiodinase, receptors and their (patho-)physiological regulation will shed light on the molecular mechanisms underlying rare as well as common diseases with distinct changes in local TH homeostasis. Such knowledge will pave the ground for the development of pharmacological tools that may ultimately result in novel therapeutic approaches by modulating TH signaling in a cell-specific manner. This Special Issue of the *International Journal of Molecular Sciences* focuses on TH transporters, deiodinases, and TH receptors and welcomes both original research articles and reviews that address molecular mechanisms underlying local control of TH signaling in health and disease.

Guest Editor

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Message from the Editor-in-Chief

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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