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Mast Cell Development, Activation and Contribution to Health and Disease

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

In this Special Issue of *Cells*, we are inviting contributions either in the form of original research articles, reviews, or shorter perspective articles. Relevant topics include, but are not limited to:

- * Mast cell heterogeneity and plasticity, including (major and minor) mast cell subsets;
- * Mast cell development;
- * Mast cell relationship with other hematopoietic lineages;
- * Insights into mast cell activation by the allergic and the pseudo-allergic/neurogenic, (MRGPRX2-triggered) route;
- * Structure–activity relationships and chemical properties of MRGPRX2 ligands (agonists and antagonists);
- * Other mast cell receptors and their contribution to mast cell functional programs;
- * Mast cell survival;
- * Mast cell signal transduction;
- * Transcriptional regulation by transcription factors, epigenetic and other mechanisms, and MC-specific promoters;
- * Mast cell mediators and their regulation;
- * Mast cell communication with natural neighbor cells;
- * Beneficial functions of mast cells that safeguard health;
- * Novel deleterious roles of mast cells contributing to pathologies of various natures.



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Special Issue