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Molecular Regulation in Ocular Physiology and Diseases

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

The vertebrate eye is a highly specialized sensory organ resulting from structures derived from the neural tube called optic vesicles. During embryogenesis, ocular development is controlled by several intracellular and extracellular signaling pathways. These signaling pathways play essential roles in several developmental processes, including cell proliferation and cell fate determination. While the activity of these pathways is tightly controlled during development, dysregulation can result in multiple ocular malformations. Furthermore, faulty regulation of several signaling pathways has been associated with ocular pathologies in post-natal life. This Topic will highlight the role of several key signaling pathways involved in eye development and how their dysregulation contributes to ocular diseases.

Dr. Bruno Larrivée Guest Editor













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