



Pituitary Tumors: New Insights into Molecular Features, Diagnosis and Therapeutic Targeting

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Recent progress in understanding the molecular features of pituitary adenomas, one of the most frequent intracranial tumors and neuroendocrine neoplasms affecting 1 in 1000 in the general population, allowed us to improve their classification, with an impact on the diagnosis and the prediction of targeted treatments. Pituitary tumorigenesis is driven by diverse mechanisms, including gene amplification, mutation, overexpression, down-regulation and epigenetic silencing, microRNA misexpression, cell cycle dysregulation, endocrine dysfunction, and others.

A deep knowledge of each of these mechanisms, mainly achieved thanks to the use of animal models, is leading to the development of effective therapeutic strategies, even for the most aggressive subtypes, characterized by invasiveness, recurrence, and resistance to conventional treatment.

In this Special Issue, we will publish reviews and original research that provide new insights into signaling pathways and biomarkers driving pituitary tumorigenesis, diagnosis, and therapeutic perspectives. Articles about aggressive pituitary adenomas will be particularly welcomed.

Prof. Dr. Monica Fedele

Guest Editor





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Message from the Editor-in-Chief

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