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Histiocytosis and Treatment Targets

Guest Editor:

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Message from the Guest Editor

Histiocytosis encompasses intriguing rare blood cancer disorders characterized by the accumulation of tissue histocytes, often accompanied by inflammatory infiltrates. Histiocytosis is considered a clonal disorder with a high frequency of somatic mutations resulting in activation of the MEK–ERK signaling pathway. Recent breakthroughs in understanding the mitogen-activated protein kinase (MAPK) pathway have identified therapeutic strategies with targeted therapies for this pathway. However, the disease can still be difficult to manage in terms of efficacy for MAPK pathway targets in individual patients. We invite authors to explore the intricate interplay between histiocytosis and pharmacology, with a focus on Langerhans cell histiocytosis, Erdheim–Chester disease and juvenile xanthogranuloma. The topics of interest may include, but are not limited to, gene pathway analysis of targeted therapy, health system models of therapeutic access to targeted therapy, complexity of RAS mutations as druggable targets, toxicity with targeted therapy, “drug holidays” and resistance. Join us in unravelling the mysteries of therapeutic targets and outcomes in histiocytosis.

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Message from the Editor-in-Chief

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