

## **Noonan Syndrome and Related Disorders A Matter of Deregulated Ras Signaling Zenker M. (ed)**

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*Each day a child is born with Noonan Syndrome.*

Noonan syndrome is a genetic disorder causing abnormal development of various parts of the body, including unusual facial characteristics, short stature, bleeding problems, heart defects, skeletal malformations and eye abnormalities. The cause is a mutation in one of two genes responsible for making a specific type of protein that is crucial for the formation of several types of tissue during development.

This book provides an in-depth discussion on the disorders of the Ras-MAPK pathway (Noonan-, cardio-facio-cutaneous-, Costello-, and LEOPARD syndromes). Molecular analyses have led to the surprising result that all four syndromes can be traced back to specific mutations in genes coding for molecules that interact in the Ras-MAPK pathway. This exciting discovery does not only permit the precise diagnosis of the diseases but also clears the way for potential therapies.

The articles treat both the clinical and molecular data exhaustively and give the reader a very timely update and outline of these related disorders. This book will be of interest to clinical geneticists, pediatricians, pediatric cardiologists and pediatric endocrinologists, as well as to human molecular geneticists and other basic researchers working on the RAS pathway.

More information is available on our website: [www.karger.com /mohug](http://www.karger.com/mohug)

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A Matter of Deregulated Ras Signaling

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