

Springer

1st
edition

2012, XX, 220 p.

Printed book

Hardcover

Printed book

Hardcover

ISBN 978-3-642-20765-5

\$ 119,99

Available

Discount group

Professional Books (2)

Product category

Professional book

Other renditions

Softcover

ISBN 978-3-642-43536-2

Softcover

ISBN 978-3-642-20767-9

Biomedicine : Human Genetics

Liehr, Thomas

Small Supernumerary Marker Chromosomes (sSMC)

A Guide for Human Geneticists and Clinicians

- **First book on this topic**
- **The author is a leading expert in the field and his laboratory is collecting all published cases**
- **With numerous patient reports**

Human beings normally have a total of 46 chromosomes, with each chromosome present twice, apart from the X and Y chromosomes in males. Some three million people worldwide, however, have 47 chromosomes: they have a small supernumerary marker chromosome (sSMC) in addition to the 46 normal ones. This sSMC can originate from any one of the 24 human chromosomes and can have different shapes. Approximately one third of sSMC carriers show clinical symptoms, while the remaining two thirds manifest no phenotypic effects. This guide represents the first book ever published on this topic. It presents the latest research results on sSMC and current knowledge about the genotype-phenotype correlation. The focus is on genetic diagnostics as well as on prenatal and fertility-related genetic counseling. A unique feature is that research meets practice: numerous patient reports complement the clinical aspects and depict the experiences of families living with a family member with an sSMC.

Order online at springer.com/book sellers**Springer Nature Customer Service Center LLC**

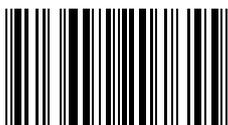
233 Spring Street

New York, NY 10013

USA

T: +1-800-SPRINGER NATURE

(777-4643) or 212-460-1500

customerservice@springernature.com

ISBN 978-3-642-20765-5 / BIC: MFN / SPRINGER NATURE: SCB12008

Prices and other details are subject to change without notice. All errors and omissions excepted. Americas: Tax will be added where applicable. Canadian residents please add PST, QST or GST. Please add \$5.00 for shipping one book and \$ 1.00 for each additional book. Outside the US and Canada add \$ 10.00 for first book, \$5.00 for each additional book. If an order cannot be fulfilled within 90 days, payment will be refunded upon request. Prices are payable in US currency or its equivalent.

Part of **SPRINGER NATURE**