



# Genomic Instability and Cancer Metastasis [ Mechanisms, Emerging Themes, and Novel Therapeutic Strategies /

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Springer

Medicine Cancer research Molecular biology Life sciences Cell  
biology Biomedicine Cancer Research Biomedicine general Molecular  
Medicine Life Sciences, general Cell Biology

Monografía

Metastasis is the primary cause of mortality associated with cancer, and tumor genomic heterogeneity is a likely source for the cells that support cancer progression, resistance to therapy, and disease relapse. This book connects cancer metastasis with genomic instability in a comprehensive manner. Section 1 outlines the fundamental mechanisms responsible for these cellular and tissue phenotypes. Section 2 discusses in silico, in vitro, and in vivo models used for the experimental study of these processes. Section 3 reviews emerging themes (ex., microenvironment, mechanotransduction, and immunomodulation), and Section 4 highlights new therapeutic approaches to overcome the unique challenges presented by the heterogeneous and metastatic tumor. This book is intended for undergraduates and postgraduates with an interest in the areas of medicine, oncology, and cancer biology as well as for the content expert searching for thorough reviews of current knowledge in these areas

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**Título:** Genomic Instability and Cancer Metastasis [Recurso electrónico] : Mechanisms, Emerging Themes, and Novel Therapeutic Strategies edited by Chris Maxwell, Cal Roskelley

**Editorial:** New York [etc.] Springer

**Descripción física:** X, 247 p. 19 il., 18 il. en color

**Mención de serie:** Cancer Metastasis - Biology and Treatment 1568-2102 20

**Contenido:** Preface.-Cancer Metastasis: Tracking and Attacking a Moving Target.-The generation, detection, and prevention of genomic instability during cancer progression and metastasis.-DNA damage response pathways in

cancer predisposition and progression.-Mathematical modeling for DNA repair, carcinogenesis and cancer detection.-Animal models of metastasis.-Microenvironmental Control Of Metastatic Progression.-7  
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Synthetic Genetic Approaches in Colorectal Cancer: Exploiting and Targeting Genome Instability -- Nanomedicine  
{u2013} Nanoparticles in Cancer Imaging and Therapy -- Index

**Detalles del sistema:** Modo de acceso: Word Wide Web Modo de acceso: World Wide Web

**Fuente de adquisición directa:** Springer (e-Books)

**ISBN:** 9783319121369 978-3-319-12136-9 9783319121352

**Autores:** Maxwell, Chris Roskelley, Cal

**Punto acceso adicional serie-Título:** Cancer Metastasis - Biology and Treatment 1568-2102 20

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