

A new frontier in the battle to understand and treat cancer

The identification of cancer stem cells (CSCs) has opened a new avenue for understanding cancer biology and how cancer should be treated. This book, the first dedicated to CSC research, introduces key concepts and discoveries, including:

- Detailed review of the regulatory mechanisms of cancer development and the transformation of CSCs to cancer cells
- Methods of isolation and characterization
- Latest therapeutic advances
- Recent findings in the study of CSCs and the status of current research
- Application of stem cell principles to cancer biology and the challenges of developing combination stem and cancer biology targets for therapeutics

In addition, the book examines specific types of cancers in which CSCs have been identified, including acute leukemias, retinoblastomas, melanomas, and breast, brain, ovarian, and prostate cancers.

Each chapter has been contributed by one or more pioneers in the field and carefully edited to ensure a thorough and uniform approach. Readers gain an insider's view of the authors' laboratories, research methods, and their results. References to the primary literature are provided at the end of each chapter.

As the first book in its field, *Cancer Stem Cells* is an invaluable repository of information for cancer biologists, stem cell researchers, and clinicians. It will serve as a springboard to understanding the mechanisms of CSCs and their potential for developing new, more effective therapeutics.

SHARMILA BAPAT, PhD, is a group leader of a small research group at the National Centre for Cell Science at India's University of Pune. She is an author of the first report on the isolation and identification of stem cells in ovarian cancer. Dr. Bapat organizes workshops on topics such as cell line establishment, immortalization of cultured cells, and stem cell protocols. She is also on the board of editors of the recently launched *Journal of Ovarian Research*.

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ISBN 978-0-470-12201-3



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