# Contents

## Part I  Genetic Risk Profiles and Biomarkers in Cancer Prevention

1. **A Favorable View: Progress in Cancer Prevention and Screening**  .......... 3
   Peter Greenwald

2. **Genetic Risk Profiles for Cancer Susceptibility and Therapy Response**  ..... 19
   Helmut Bartsch, Heike Dally, Odilia Popanda, Angela Risch, Peter Schmezer

3. **Tumor Promotion as a Target of Cancer Prevention**  ......................... 37
   Friedrich Marks, Gerhard Fürstenberger, Karin Müller-Decke

4. **Insulin-Like Growth Factor-Related Signaling and Cancer Development**  49
   Michael Pollak

## Part II  Inflammation, Infection, and Cancer Prevention

5. **Cytokines Are a Therapeutic Target for the Prevention of Inflammation-Induced Cancers**  ......................................................... 57
   Stefan Rose-John, Heidi Schooltink

6. **Prevention of Hepatocellular Carcinoma in Chronic Viral Hepatitis Patients with Cirrhosis by Carotenoid Mixture**  ......................... 67
   Hoyoku Nishino

7. **Cox-2 and Cancer Chemoprevention: Picking up the Pieces**  ............... 73
   Monica M. Bertagnolli
## Part III  Prevention of Female and Male Genital Cancers

8  **Human Papillomavirus Vaccine: A New Chance to Prevent Cervical Cancer** ........................................ 81  
Bradley J. Monk, Ali Mahdavi  

9  **Prevention and Early Detection of Ovarian Cancer: Mission Impossible?** 91  
Robert C. Bast Jr., Molly Brewer, Changping Zou,  
Mary A. Hernandez, Mary Daley, Robert Ozols, Karen Lu,  
Zhen Lu, Donna Badgwell, Gordon B. Mills, Steven Skates,  
Zhen Zhang, Dan Chan, Anna Lokshin, Yinhua Yu  

10  **Prevention of Prostate Cancer: More Questions than Data** ............ 101  
Hans-Peter Schmid, Daniel S. Engeler,  
Karl Pummer, Bernd J. Schmitz-Dräger  

## Part IV  Prevention of Breast Cancer

11  **Primary Prevention of Breast Cancer by Hormone-Induced Differentiation** ........................................ 111  
Irma H. Russo, Jose Russo  

12  **The Genomic Signature of Breast Cancer Prevention** ...................... 131  
Jose Russo, Gabriela Balogh, Daniel Mailo,  
Patricia A. Russo, Rebecca Heulings, Irma H. Russo  

13  **Estrogen Deprivation for Breast Cancer Prevention** ...................... 151  
Anthony Howell, Robert B. Clarke, Gareth Evans,  
Nigel Bundred, Jack Cuzick, Richard Santen, Craig Allred  

## Part V  Prevention of Colorectal Cancers

14  **Primary Dietary Prevention: Is the Fiber Story Over?** .................. 171  
Cheryl L. Rock  

15  **Prevention and Early Detection of Colorectal Cancer – New Horizons** ... 179  
Gad Rennert
Part VI  Prevention of Skin and Brain Tumors

16  New Perspectives on Melanoma Pathogenesis and Chemoprevention  ...  191
Frank L. Meyskens, Jr., Patrick J. Farmer, Sun Yang, Hoda Anton-Culver

17  Vitamin D – An Emerging Issue in Skin Cancer Control. Implications for Public Health Practice Based on the Australian Experience  ...................  197
Craig Sinclair

18  Are Gliomas Preventable?  .........................................................  205
Victor A. Levin

Part VII  The Future of Cancer (Chemo)Prevention

19  Angiogenesis and Cancer Prevention: A Vision  .......................  219
Douglas M. Noonan, Roberto Benelli, Adriana Albini

20  An Estimate of Cancer Mortality Rate Reductions in Europe and the US with 1,000 IU of Oral Vitamin D Per Day  .........................  225
William B. Grant, Cedric F. Garland, Edward D. Gorham

21  Uncovering Novel Targets for Cancer Chemoprevention  ...............  235
Konstantin H. Dragnev, Qing Feng, Yan Ma, Sumit J. Shah,
Candice Black, Vincent Memoli, William Nugent, James R. Rigas,
Sutisak Kitareewan, Sarah Freemantle, Ethan Dmitrovsky

Part VIII  Conclusions and Summary

22  Conference Summary  .................................................................  247
Ursula Kapp, Hans-Jörg Senn
Cancer Prevention
Senn, H.-J.; Kapp, U. (Eds.)
2007, XIV, 250 p. 60 illus., 24 illus. in color., Hardcover
ISBN: 978-3-540-37695-8