Advances in Cancer Drug Targets (Volume 2)

Description:
Advances in Cancer Drug Targets is an e-book series that brings together recent expert reviews published on the subject with a focus on strategies for synthesizing and isolating organic compounds and elucidating the structure and nature of DNA.

The reviews presented in this series are written by experts in pharmaceutical sciences and molecular biology. These reviews have been carefully selected to present development of new approaches to anti-cancer therapy and anti-cancer drug development.

The contents of this book include chapters on heat shock protein 90, spindle assembly checkpoint, ErbB receptors, anti-tumor effects of bisphosphonates, biomarkers for risk assessment and prevention of breast cancer, fibrates action in Daunorubicin chemical reaction and many more.

The reference work serves to give readers a brief yet comprehensive glance at current theory and practice behind employing chemical compounds for tackling tumor suppression, DNA site specific drug targeting and the inhibition of enzymes involved in growth control pathways. This e-book volume will be of special interest to molecular biologists and pharmaceutical scientists.

Contents:
As the discovery and classification of novel human drug targets for anti-cancer drugs continue to grow, the eBook Series “Advances in Cancer Drug Targets” has become essential for all pharmaceutical scientists. This eBook series is a compilation of recent expert reviews published in Current Cancer Drug Targets on the subject with a focus on novel strategies. The current volume covers reviews on contemporary molecular drug targets involved in cancer, including medicinal chemistry, pharmacology, molecular biology, genomics and biochemistry.

The ‘cancer chaperone’ heat-shock protein 90 (Hsp90) plays a crucial role in maintaining the stability and activity of numerous signaling proteins. In chapter 01, Bruserud et al. explain the role of Heat Shock Protein 90 (HSP90) as a potential target in the treatment of Acute Myelogenous Leukaemia (AML). The HSP90 inhibition targets several intracellular signalling pathways, leading to the degradation of client proteins and hence exhibits multiple antileukaemic effects. This has been comprehensively reviewed.

The mitotic spindle assembly checkpoint (SAC) is a vital regulatory system of the eukaryotic cell cycle. Mutations in Spindle Assembly Checkpoint (SAC) lead to a condition that is associated with various types of cancers. Kapanidou & Bolanos-Garcia in chapter 02 explain the organization, structure and function of SAC components as this molecular understanding is essential to identify and evaluate new targets and novel strategies for the treatment of cancer.

Excessive ErbB signaling is associated with the development of a diverse range of solid tumours. The involvement of the ErbB receptor tyrosine kinases in human cancer has motivated the interest in this receptor family. In chapter 03, Angelucci explains the role of ErbB receptors as a potential therapeutic target in metastasis. This review summarises the recent molecular evidence and the outcome of clinical examinations to demonstrate the potential of ErbB family members.

At least 25% of patients with breast cancer develop skeletal metastases, with bone cancer resulting in the greatest morbidity. Bisphosphonates are the treatment of choice in tumour-induced hypercalcaemia, and they can lessen bone tenderness and skeletal complications. Chapter 04 by Brown & Holen summarizes anti-tumour effects of bisphosphonates reported from in vivo models, alone and in combination with other anti-cancer agents.

Caveolin-1 (cav-1) is a major structural component of caveolae and it affects diverse signaling pathways regulating cell proliferation, apoptosis, differentiation, migration and growth. Kasper & Barth in chapter 05 elaborate on the role of Bleomycin in inducing apoptosis and senescence in Alveolar Epithelial Lung Cells. This review highlights the issue that bleomycin-induced injury of lung cells is accompanied by altered expression levels of caveolin-1.
Chapter 06 by Cazzaniga et al. summarizes the vast array of molecules involved in carcinogenesis and the role of candidate biomarkers in risk assessment and prevention of breast cancer.

Costelli et al. in chapter 07 discuss the efficacy of two histone deacetylase inhibitors, valproic acid and trichostatin A in preventing muscle atrophy associated with certain cancers.

Indoleamine-2, 3-dioxygenase (IDO) is an immunosuppressive enzyme and its expression is evident in tumours. Chapter 08 by Liu et al. explains the role of IDO as a mediator of peripheral immune tolerance, and the potential of inhibition of IDO serves as a novel anti-cancer therapy.

Association of p53 with Bid induces cell death in response to etoposide treatment. Chen et al. in chapter 09 discuss a novel mechanism of facilitation of Bid nuclear export by p53 and their interaction in the nucleus and the mitochondria to induce apoptosis in response to etoposide-induced DNA damage.

Daunorubicin belongs to the group of chemotherapy drugs known as anthracycline antibiotics and is a toxic analogue of anthracycline which is reduced to daunorubicinol (less toxic) by the action of AKR1B10. It was discovered that the enzyme AKR1B10 is overexpressed in some types of cancer. Balendiran in chapter 10 presents the chemical mechanism of action of daunorubicin and proposes a method to advance the effectiveness of daunorubicin by modulating the catalytic activity of AKR1B10.


Order by Fax - using the form below

Order by Post - print the order form below and send to

Research and Markets,
Guinness Centre,
Taylors Lane,
Dublin 8,
Ireland.
Fax Order Form
To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit http://www.researchandmarkets.com/contact/

Order Information
Please verify that the product information is correct.

Product Name: Advances in Cancer Drug Targets (Volume 2)
Web Address: http://www.researchandmarkets.com/reports/3044261/
Office Code: SCD2FPQE

Product Format
Please select the product format and quantity you require:

<table>
<thead>
<tr>
<th>Quantity</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>E-Book (PDF) -</td>
<td>USD 89</td>
</tr>
<tr>
<td>Single User:</td>
<td></td>
</tr>
</tbody>
</table>

Contact Information
Please enter all the information below in BLOCK CAPITALS

Title:  Mr  □  Mrs  □  Dr  □  Miss  □  Ms  □  Prof  □
First Name: __________________________  Last Name: __________________________
Email Address: * __________________________
Job Title: __________________________
Organisation: __________________________
Address: __________________________
City: __________________________
Postal / Zip Code: __________________________
Country: __________________________
Phone Number: __________________________
Fax Number: __________________________

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card: You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check: Please post the check, accompanied by this form, to:

Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by wire transfer: Please transfer funds to:

<table>
<thead>
<tr>
<th>Description</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Account number</td>
<td>833 130 83</td>
</tr>
<tr>
<td>Sort code</td>
<td>98-53-30</td>
</tr>
<tr>
<td>Swift code</td>
<td>ULSBIE2D</td>
</tr>
<tr>
<td>IBAN number</td>
<td>IE78ULSB9853083313083</td>
</tr>
<tr>
<td>Bank Address</td>
<td>Ulster Bank, 27-35 Main Street, Blackrock, Co. Dublin, Ireland</td>
</tr>
</tbody>
</table>

If you have a Marketing Code please enter it below:

Marketing Code: ____________________________

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp

Please fax this form to:

(646) 607-1907 or (646) 964-6609 - From USA
+353-1-481-1716 or +353-1-653-1571 - From Rest of World