Cancer Metastasis: Experimental Approaches, Vol 29. Laboratory Techniques in Biochemistry and Molecular Biology

Description: The book describes most of the methods that are currently used in metastasis research. Both in vivo and in vitro protocols are illustrated, so that the metastatic process can be either analysed as a whole, or single events addressed separately. Each method is described in the frame of the metastatic process, therefore its significance and its limitations in the context of metastasis are always taken into account. Whenever possible, several alternative procedures are reported per each experimental issue, so that the researcher can choose the one that better suits her/his needs and possibilities.

During the past 30 years a big effort has been made to elucidate the molecular mechanisms of cancer metastasis, the leading cause of death for cancer patients. A considerable number of assays have been set up, that can be used to address specific questions concerning the single metastatic steps, or can be applied to develop and test drugs specifically interfering with selected events during the metastatic spread. This book contains an exhaustive description of most of the methods and their rationale, that are currently used in metastatic research, both to analyse metastasis in its entirety (in vivo models), or to dissect the single steps of the metastatic process (in vitro assays).

Contents: Preface. 1. Introduction. 2. Homotypic and Heterotypic Cell Adhesion in Metastasis. 2.1 Release of malignant cells from the tumor mass: intercellular cohesion. 2.2 Malignant tumor cells in the blood stream: interactions with blood. 2.3 Adhesion to the target organ. 3. Motility, Deformability and Metastasis. 3.1 Motility and metastasis. 3.2 The role of active and passive deformability in invasion and resistance to shear stress forces in the blood stream. 4. ECM Degradation and Invasion. 4.1 Degradation. 4.2 Invasion. 5. The Role of Growth Interactions in Cancer Metastasis. 5.1 Methods to evaluate growth interactions in vitro. 5.2 Growth interactions in vivo. 6. Selection of Metastatic Variants. 6.1 Selection of organ-specific metastatic variants. 6.2 Selection of metastatic variants with enhanced or decreased metastatic abilities. 7. Genetic Tagging as a Mean to Study Tumor Progression or Metastasis-related Genes. 7.1 Clonal dominance in tumor progression. 7.2 Visualization of cancer metastasis. 7.3 Genes controlling the metastatic phenotype: use of gene tags to identify metastasis-related genes. 8. In Vivo Cancer Metastasis Assays. 8.1 Why study metastasis in vivo? 8.2 What defines an appropriate model of metastasis? 8.3 Cell lines. 8.4 Considerations regarding animals. 8.5 Site of injection. 8.6 Materials needed. 8.7 Spontaneous metastasis assay. 8.8 Experimental metastasis assay. 8.9 Enumeration of metastases. 8.10 Statistical considerations. 8.11 The influence of stress. 8.12 Concluding remarks. 9. Angiogenesis and Metastasis. 9.1 The corneal assay for angiogenesis. 9.2 The chick embryo chorioallantoic membrane assay. 9.3 Subcutaneous implant assay. References.


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 and select the format(s) you require.

| Product Name: | Cancer Metastasis: Experimental Approaches, Vol 29. Laboratory Techniques in Biochemistry and Molecular Biology |
| Web Address: | http://www.researchandmarkets.com/reports/1757896/ |
| Office Code: | SCD23GU9 |

Product Formats
Please select the product formats and quantity you require:

| Quantity | |
| Hard Copy (Hard Back): | USD 286 + USD 29 Shipping/Handling |
| Hard Copy (Paper back): | USD 114 + USD 29 Shipping/Handling |

* Shipping/Handling is only charged once per order.

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:

Account number 833 130 83
Sort code 98-53-30
Swift code ULSBIE2D
IBAN number IE78ULSB98533083313083
Bank Address Ulster Bank,
27-35 Main Street,
Blackrock,
Co. Dublin,
Ireland.

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