Principles of Developmental Genetics. Edition No. 2

Description: Providing expert coverage of all major events in early embryogenesis and the organogenesis of specific systems, and supplemented with representative clinical syndromes, Principles of Developmental Genetics, Second Edition discusses the processes of normal development in embryonic and prenatal animals, including humans. The new edition of this classic work supports clinical researchers developing future therapies with its all-new coverage of systems biology, stem cell biology, new technologies, and clinical disorders. A crystal-clear layout, exceptional full-color design, and bulleted summaries of major takeaways and clinical pathways assist comprehension and readability of the highly complex content.

- All-new coverage of systems biology and stem cell biology in context of evolving technologies places the work squarely on the modern sciences
- Chapters are complemented with a bulleted summary for easy digestion of the major points, with a clinical summary for therapeutic application
- Clinical highlights provides a bridge between basic developmental biology and clinical sciences in embryonic and prenatal syndromes

Contents:

Section I: Emerging Technologies and Systems Biology
1. Untangling the Gordian knot: Cell signaling events that instruct development
2. RNA-seq and deep sequencing
3. Using mutagenesis in mice and zebrafish for developmental gene discovery
4. Chemical approaches to control stem cell fate
5. BMP signaling and stem cell self-renewal in the Drosophila ovary
6. Genomic Analyses of Neural Stem Cells
7. Chordate origins, stem cells and regeneration

Section II: Early Embryology and Morphogenesis
8. Dorsal-ventral axis patterning in insects
9. Building dimorphic forms: an examination of the genetic pathways that intersect embryonic patterning and sex determination
10. Anterior-Posterior patterning in mammals
11. Early development of epidermis and neural tissue
12. Taking the middle road: mesoderm induction and the blastula-gastrula transition
13. Endoderm induction
14. Epithelial branching: mechanisms of patterning and self-organization
15. Lateral line migration

Section III: Organogenesis
16. Neural cell fate determination
17. Retinal development
18. Neural crest determination
19. Determination of preplacodal ectoderm and sensory placodes
20. Olfactory development
21. Inner ear development
22. Molecular genetics of tooth development
23. Induction of the cardiac lineages
24. Blood vessel formation
25. Blood induction and embryonic formation
26. Vertebrate kidney formation: a comparative perspective
27. Development of the genital system
28. Skeletal development
29. Formation of vertebrate limbs
30. Patterning the embryonic endoderm into presumptive organ domains
31. Pancreas Development and Regeneration

Section IV: Selected Clinical Problems
32. Diaphragmatic embryogenesis and human congenital diaphragmatic defects
33. Genetic and developmental basis of congenital cardiovascular malformations
34. Multiple Roles of T-box genes
35. Craniofacial syndromes: etiology, impact and treatment
36. DeGeorge and related syndromes
37. Neural tube defects

Ordering:

Order Online - http://www.researchandmarkets.com/reports/2857159/

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.

<table>
<thead>
<tr>
<th>Product Name:</th>
<th>Principles of Developmental Genetics. Edition No. 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Web Address:</td>
<td><a href="http://www.researchandmarkets.com/reports/2857159/">http://www.researchandmarkets.com/reports/2857159/</a></td>
</tr>
<tr>
<td>Office Code:</td>
<td>SCPLHDET</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hard Copy (Hard Back):</td>
</tr>
</tbody>
</table>

* Shipping/Handling is only charged once per order.

Contact Information
Please enter all the information below in BLOCK CAPITALS

<table>
<thead>
<tr>
<th>Title:</th>
<th>Mr ☐ Mrs ☐ Dr ☐ Miss ☐ Ms ☐ Prof ☐</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Name:</td>
<td></td>
</tr>
<tr>
<td>Email Address:</td>
<td>*</td>
</tr>
<tr>
<td>Job Title:</td>
<td></td>
</tr>
<tr>
<td>Organisation:</td>
<td></td>
</tr>
<tr>
<td>Address:</td>
<td></td>
</tr>
<tr>
<td>City:</td>
<td></td>
</tr>
<tr>
<td>Postal / Zip Code:</td>
<td></td>
</tr>
<tr>
<td>Country:</td>
<td></td>
</tr>
<tr>
<td>Phone Number:</td>
<td></td>
</tr>
<tr>
<td>Fax Number:</td>
<td></td>
</tr>
</tbody>
</table>

* 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