Bacillus anthracis and Anthrax

Description: The premier reference on B. anthracis and anthrax for scientists and health professionals

Bacillus anthracis has played a major role in shaping our understanding of bacterial pathogenesis and innate immunity. Due to its potential use as a bioterror agent, it remains at the forefront of microbiology research. To combat this possible danger, scientists are interested in identifying and understanding the ways in which B. anthracis adapts its gene expression and basic physiology to the local environment, particularly during infection. Bacillus anthracis and Anthrax provides a comprehensive guide to all aspects of the organism, ranging from basic biology to public health issues associated with anthrax.

Bringing together a comprehensive collection of reviews on this important research subject, the book covers:

- Historical perspective  B. anthracis and its impact on humans throughout history
- Basic biology of B. anthracis, including life cycle, differentiation, and cellular structure
- B. anthracis genomics, including phylogeny and evolution
- B. anthracis pathogenesis, including toxins, capsule, and other virulence factors
- Interaction of B. anthracis with the immune system
- Anthrax, including clinical features, diagnosis, and treatment of the different forms of human anthrax, as well as a review of animal models of anthrax and their use in research
- Epidemiology of anthrax in both animals and humans, and the ecology of B. anthracis within the environment
- Prevention of anthrax  vaccines, anti–toxin therapies, and other strategies
- B. anthracis as a bioterror agent  history, current threat, and countermeasures

Comprised of fifteen chapters, the book reports on all major aspects of anthrax biology, such as basic biology and pathogenesis, diagnosis, treatment, prevention of anthrax, and biological issues. It discusses systems–level techniques as well as traditional biochemical and genetic tools, a multi–level approach that helps define both global trends and the individual roles that key proteins play in allowing the bacterium to rapidly adjust to its surroundings.

Bacillus anthracis and Anthrax is geared toward microbiologists, medical professionals, public health professionals, bioinformaticists, immunologists, physiologists, and bioterror research and preparedness. Its appeal also extends beyond the basic science community into medicine, public health, and public policy.

Contents:

Preface.

Contributors.

1. Anthrax from 5000 BC to AD 2010 (Peter C. B. Turnbull and Sean V. Shadomy).
2. Outer Structures of the Bacillus anthracis Spore (Adam Driks and Michael Mallozzi).
5. The Bacillus anthracis Genome (Timothy D. Read).
6. Bacillus anthracis Plasmids: Species Definition or Niche Adaptation? (David A. Rasko).
7. Iron Acquisition by Bacillus anthracis (Gleb Pishchany and Eric P. Skaar).

10. The Interactions between Bacillus anthracis and Macrophages (Susan L. Welkos, Joel A. Bozue, and Christopher K. Cote).


12. Bacillus anthracis Dissemination through Hosts (Ian J. Glomski).

13. Pathology, Diagnosis, and Treatment of Anthrax in Humans (Jeannette Guarner and Carlos del Rio).


Index.

Ordering:

Order Online - [http://www.researchandmarkets.com/reports/1546359/](http://www.researchandmarkets.com/reports/1546359/)

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: Bacillus anthracis and Anthrax
Web Address: http://www.researchandmarkets.com/reports/1546359/
Office Code: SCPL1J5Q

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>
<tr>
<td>USD 136 + USD 28 Shipping/Handling</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</th>
<th>Mrs</th>
<th>Dr</th>
<th>Miss</th>
<th>Ms</th>
<th>Prof</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Name:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Last Name:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Email Address:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Job Title:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Organisation:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Address:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>City:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Postal / Zip Code:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Country:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phone Number:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fax Number:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></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