



Welcome

This year was a great success for our Biometals community which now is called International Biometals Society (IBS) with a broad range of activities and an official journal *BioMetals*. We all look forward to the next highlight of the year 2014 which will bring together scientists from all over the world to Durham, North Carolina, USA., where the 9th International Biometals Symposium will take place under the guidance of Professors Alvin Crumbliss, Kathy Franz and Dennis Thiel as described in more detail in this Newsletter. Information on the location, accomodation and registration can be obtained on the Biometals web site www.biometals.org. All Members of the IBS will receive a discount for the registration fees of the biometals meeting.

For further member benefits and benefits of the publisher Springer, see the Biometals web site. We invite interested scientists to join the IBS by a membership application which can be easily done by filing the membership application reply form on the web site www.biometals.org. In accordance with established guidelines, the IBS dues for 2014 are to be sent to Professor Manuel Lemos, treasurer of the IBS. I am also very happy that the IBS is now able to financially support this biometals meeting in North Carolina. In previous biometals meetings this was not possible and we hope to continue this kind of support for future biometals meetings. Many thanks goes to all my colleagues working for the IBS and also for the Editorial Board of the journal *BioMetals*. We all know that reviewing manuscripts is hard work which requires, besides scientific qualification, a great input of time. The same applies for the authors who prefer to send their manuscripts to the journal *BioMetals* and who trust on the qualified comments of the referees. I greatly appreciate the assistance of the publisher Springer who always provided support to the IBS and certainly be a sponsor at the meeting in Durham. I anticipate that 2014 will bring new challenges for all of us but this, on the other hand, will eventually strengthen our efforts and success.

With best wishes for the New Year 2014,

Guenther Winkelmann

President of IBS

Announcements and News

Shelly M. Payne

**Receives
the 2014
Igor Stojiljkovic Award**

This award is for outstanding research in biometals. A presentation will be at the 2014 International Biometals Symposium July, 2014 at Duke U.

**Now open for Payment:
2014 IBS Dues**

Dues are used to assist in the support of the Biometals Symposium. Officers of IBS serve without remuneration.

Payment details are listed on IBS home page [www.biometals.org].

Larry L. Barton

**Receives
the 2014
Heritage Award**

This award is for contributions in the area of biometals. A presentation will be at the 2014 International Biometals Symposium July, 2014 at Duke U.

BioMETALS 2014

biometals2014.chem.duke.edu

July 13 – 18, 2014

Duke University
Durham, NC USA



*An interdisciplinary
conference exploring
metals in biology,
medicine, and the
environment*

Organizing Committee

Al Crumbliss, Duke University
Kathy Franz, Duke University
Dennis Thiele, Duke University

Email

biometals2014@chem.duke.edu

Session Topics

Mechanisms for metal acquisition
Metals at the host pathogen interface
Metal cofactor assembly
Metals in health and disease
Metal homeostasis in plants
Metal dependent signaling
Environmental biology of trace metals
Metal-gene interactions
Toxic metal management
Metals in biotechnology



Springer

Duke
UNIVERSITY

DEPARTMENT OF
CHEMISTRY

The Hanscom Endowment
through the Duke University
Office of Global Strategy and
Programs



Biometals 2014 Symposium

Focus: Exploring metals in biology, medicine, and the environment

For Information concerning the following:

Registration (discount if early)
Abstract (open in January)
Accommodations
Invited speakers
Posters
Travel

Check at <http://biometals2014.chem.duke.edu>

Obituary notice:

B. Rowe Byers
Ph.D.

(1936 - 2013)



On June 26, 2013 Benjamin Rowe Byers, passed away at Hospice Ministries after a long struggle with a prolonged serious illness. "Rowe" was professor at the U. of Mississippi School of Medicine from 1967 to 2007 and frequently attended international meetings on iron metabolism by bacteria until he became ill. Rowe had just finished editing a book on Iron metabolism in *Mycobacteria* and this book will be available soon from Springer.

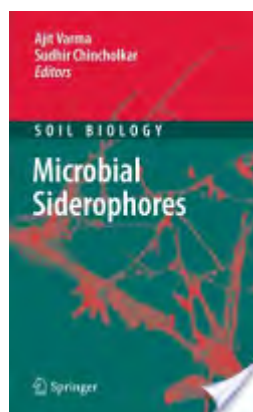
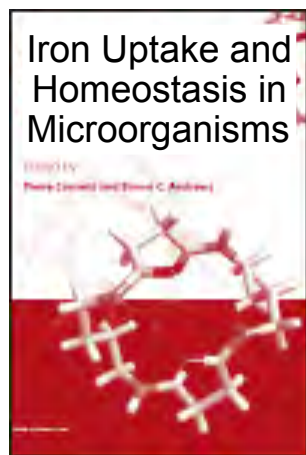
Print Books on Iron and Microorganisms

Iron Uptake and Homeostasis in Microorganisms

Edited by
Pierre Cornelis and Simon C. Andrews

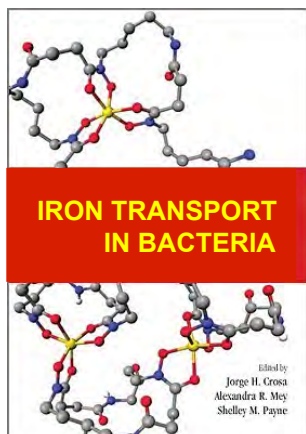
Editors: Pierre Cornelis and Simon C. Andrews
Caister Academic Press
June, 2010

Comprehensive reviews on iron uptake and metabolism in microorganisms including rhizobia, *Bordetella*, *Shigella*, *E. coli*, *Erwinia*, *Vibrio*, *Aeromonas*, *Francisella*, *Bacteroides*, *Campylobacter*, cyanobacteria, *Bacillus*, staphylococci and yeasts.



Editors: Ajit Varma, S. B. Chincholkar
Springer, 2007

Presents an overview of the biology, chemistry, & biotechnology of iron chelators



Editors: Jorge H. Crosa, Alexander R. May, Shelly M. Payne
ASM Press, 2004

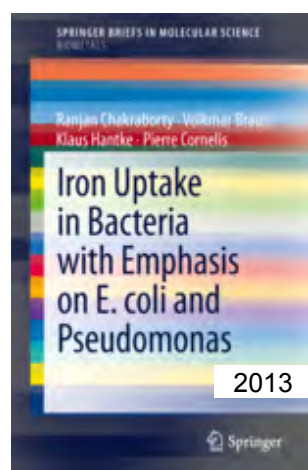
Topics reviewed in 16 chapters Include the following: Siderophores, hemophores. iron transport proteins, regulation and energetics of transport systems, iron transport and ecology. The transport of iron In pathogenic bacteria is covered in an additional 14 chapters.

Siderophores from Neighboring Organisms Promote the Growth of Uncultured Bacteria.



Anthony D'Onofrio
Published by Proquest, Umi Dissertation Publishing, United States
2012

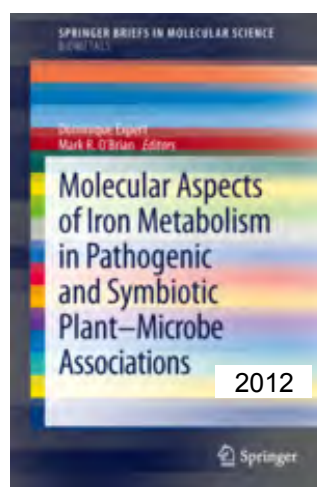
ISBN 10: 1248996119
ISBN 13: 9781248996119



Authors: Ranjan Chakraborty, Volkmar Braun, Klaus Hantke, and Pierre Cornelis

Topics

1. Outer membrane receptors of *E. coli* and a tribute to Dick van der Helm. 2. Tricky ways bacteria (*Neisseria*, *Listeria*, *Staphylococcus*, *Vibrio*) cope with iron limitation. 3. Iron transport and homeostasis in *Pseudomonas*.



Authors: Dominique Expert, Mark R. O'Brien

Topics

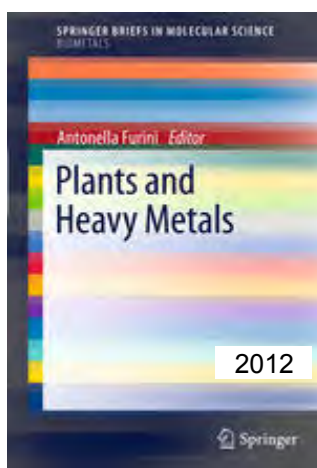
1. Iron, an element essential to life. 2. Iron in plant-pathogen interactions (*includes: Ralstonia, Agrobacterium, Pseudomonas, Xanthomonas, Xylella, Ustilago, Blumeria, Phytophthora*). 3. Iron mechanisms, regulation, and homeostasis in the Rhizobia.



Author: Anil Suresh

Topics

1. Nanocrystallites: Properties, characterization, and potential applications. 2. Facile green fabrication of nanocrystallites 3. Metal nanoparticles and bacteriocidal properties 4. Biocompatibility and inertness of Au nanocrystallites 5. Metal oxides:



**Editor: Antonella Furini
Authors: Giovanni DalCorso, Anna Manara, Elisa Fasani, Andrea Nesler, Antonella Furini**

Topics

1. Heavy metal toxicity in plants. 2. Plant response to heavy metal toxicity. 3. Plants that hyperaccumulate heavy metals. 4. Phytoremediation: The use of plants to reclaim polluted sites.

Announcements of Metal Meetings

ISMEC2014

International Symposium on Metal Complexes

June 8-12, 2014

Raffaella Biesuz (Chair)

Pavia, Italy

<http://www.ismec2014.org>

Biolron2015

6th Meeting of the International Biolron Society

Sept 6-10, 2015

China

<http://www.bioiron.org/default.aspx>

8th Int. Conference on Heme Oxygenases, Biolron and Oxidative Stress

October 8-11, 2014

Sydney, Australia

<http://hemeoxygenase2014.org.au>

TEMA15

15th International Symposium on Trace Elements in Man & Animals

June 22-26, 2014

Orlando, Florida

<http://www.conference.ifas.ufl.edu/TEMA15/>

ISZB 2014

Meeting of the International Society for Zinc Biology

September 14-19, 2014

Asilomar Pacific Grounds, CA

<http://www.iszb.org>

Environmental Hazards of Trace Elements Emphasis on Environmental Lead Poisoning

October, 2014 Kashmir, India

Shafiq-ur-Rehman (Organizer)

Email: shafiqii@gmail.com

ISINIP2014

XVII International Symposium On Iron Nutrition & Interactions in Plants - July 6-10, 2014

Gatersleben, Germany

<http://isinip2014.ipk-gatersleben.de>

Copper 2014

9th International Copper Meeting

October 5-10, 2014

Vico Equense, Italy

<http://sites.duke.edu/copper2014/>

Interested in Hosting a Biometals Symposium in the Future?

If so, contact an officer of IBS