



# FROM THE SNOW MOUNTAIN IN JAPAN TO THE NEGEV DESERT:

**Physiology, Genome Assembly and the Development of a Toolbox for Biotechnological Applications of the Microalga *Lobosphaera incisa***

We would like to call your attention to a research seminar that will be held on September 6, 2016 at the Sede Boqer Campus of Ben-Gurion University in Midreshet Ben-Gurion, Israel

## **Invited international speakers**

### **Prof. Dr. Thomas Friedl**

Thomas Friedl is the Head of the Department of Experimental Phycology and Culture Collection of Algae at the University of Göttingen. His main interests are the phylogeny and systematics of mainly terrestrial algae, including cyanobacteria, and assessing the biodiversity of algae-dominated biofilms from unusual habitats using molecular methods, as well as methods of isolation and long-term maintenance of algae in a culture collection.

### **Dr. Olivier Vallon**

Olivier Vallon studies photosynthesis and chloroplast biogenesis at the Institut de Biologie Physico-Chimique in Paris. He has worked mostly with the green alga *Chlamydomonas reinhardtii*, in particular leading the functional annotation of the genome. Fascinated by evolutionary perspectives in biology, he recently started to assemble and annotate genomes of other algae, including *Lobosphaera incisa*.

For further information please contact the organizing committee Inna Khozin-Goldberg: [khozin@bgu.ac.il](mailto:khozin@bgu.ac.il) and Sammy Boussiba: [sammy@bgu.ac.il](mailto:sammy@bgu.ac.il), <http://web2.bgu.ac.il/algal/>, <http://in.bgu.ac.il/en/bidr/FAAB/Pages/default.aspx>



# FROM THE SNOW MOUNTAIN IN JAPAN TO THE NEGEV DESERT: Physiology, Genome Assembly and the Development of a Toolbox for Biotechnological Applications of the Microalga *Lobosphaera incisa*

**September 6, 2016**

George Evens Family Auditorium, The Jacob Blaustein Institutes for Desert Research,  
Sede Boqer Campus of Ben-Gurion University of the Negev

**8:45 Registration, coffee and light refreshments**

**9:30 WELCOME AND OPENING SESSION**

**Zvi HaCohen**, RECTOR'S GREETINGS

**Avigad Vonshak**, HISTORICAL OUTLOOK

**Sammy Boussiba**, MBL CHALLENGES AND RESEARCH ACTIVITIES

**10:00** Keynote Lecture

**THE QUEST FOR PUFA-RICH MICROALGAE**

**Zvi HaCohen**, Microalgal Biotechnology Laboratory, The French Associates Institute for Agriculture and Biotechnology of Drylands, BIDR, BGU

**10:30** Keynote Lecture

**LOBOSPHAERA BIODIVERSITY:  
ARE ALL STRAINS THE SAME?**

**Thomas Friedl**, Department Experimental Phycology and Culture Collection of Algae, University of Göttingen, Germany

**11:00 THE PECULIAR LIPID METABOLISM IN *LOBOSPHAERA INCISA* AND BIOTECHNOLOGICAL IMPLICATIONS**

**Inna Khozin-Goldberg**, Microalgal Biotechnology Laboratory, The French Associates Institute for Agriculture and Biotechnology of Drylands, BIDR, BGU

**11:20 Coffee break**

**11:40** Keynote Lecture

**THE *LOBOSPHAERA INCISA* GENOMES TELL THE HIDDEN STORIES OF A SIMPLE GREEN COCCOID**

**Olivier Vallon**, Institut de Biologie Physico-Chimique, CNRS/ Université Pierre et Marie Curie, Paris, France

**12:20 METABOLIC ENGINEERING OF *LOBOSPHAERA INCISA* TOWARD PRODUCTION OF OMEGA-3 FATTY ACIDS**

**Boris Zorin**, Microalgal Biotechnology Laboratory, The French Associates Institute for Agriculture and Biotechnology of Drylands, BIDR, BGU

**12:40 DIETARY SUPPLEMENTATION WITH *LOBOSPHAERA INCISA* TO INDUCE STRESS AND DISEASE RESISTANCE IN FISH**

**Dina Zilberg**, Fish Health Lab, The French Associates Institute for Agriculture and Biotechnology of Drylands, BIDR, BGU

**13:00 Lunch and visit of MBL facilities**

**14:30 GIAVAP: BREAKTHROUGHS IN METABOLIC ENGINEERING OF HIGH VALUE ALGAE**

**Stefan Leu**, Microalgal Biotechnology Laboratory, The French Associates Institute for Agriculture and Biotechnology of Drylands, BIDR, BGU

**15:00 ELUCIDATING THE ROLE OF AUTOPHAGY IN NUTRIENT STRESS RESPONSE OF THE MICROALGA *LOBOSPHAERA INCISA***

**Kamilya Kokabi**, Microalgal Biotechnology Laboratory, The French Associates Institute for Agriculture and Biotechnology of Drylands, BIDR, BGU

**15:20** Keynote Lecture

**RE-WRITING THE TEXTBOOKS WITH GREEN ALGAE AND CYANOBACTERIA INHABITING DESERT SOIL CRUSTS THAT LUCKILY FAILED TO READ THE LITERATURE**

**Aaron Kaplan**, Department of Plant and Environmental Sciences, The Hebrew University of Jerusalem

**16:00 CLOSING REMARKS**

**Sammy Boussiba**, Microalgal Biotechnology Laboratory, The French Associates Institute for Agriculture and Biotechnology of Drylands, BIDR, BGU