

CV –Hagai Raanan

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Born: 1981, Jerusalem, Israel

Citizenship: Israeli

Languages: Hebrew (mother tongue), English (very good)

Education

2006-2008: B.Sc., Hebrew University of Jerusalem, Institute of Life Sciences, specialization in Biology, Marine Sciences.

2009-2015: Direct track Ph.D., Hebrew University of Jerusalem, Institute of Life Sciences, Department of Plant and Environmental Sciences.

Thesis title: Adaptation of biological soil crusts microorganisms to harsh environmental conditions. Advisor: Profesor Aaron Kaplan.

Academic employment and teaching experience:

2015-present: Post-doctoral Research Associate, with Prof. Paul Falkowski, Institute of Marine and Coastal Sciences, Rutgers University. The project focuses on understanding the evolution of early electron transfer proteins.

2011- 2015 (part-time): Teaching Assistant (lab), Hebrew University of Jerusalem.

2013-Field and lab instructor - European Science Foundation COST Training School on desert biological sand crusts, NW Negev desert, Israel. (March 2013)

2010- 2011 (part-time): Teaching Assistant (lab), Jerusalem College of Engineering, Jerusalem

2005-2009: Educational Instructor, Tekoa Seminary, Israel

2000-2004: Diving instructor (part-time), Coral Sea Divers Club, Eilat, Israel

Publications

Hagai Raanan, Nadav Oren, Haim Treves, Simon M. Berkowicz, Martin Hagemann, Nadin Pade, Nir Keren and Aaron Kaplan. Simulated soil crust conditions in a chamber system provide new insights on cyanobacterial acclimation to desiccation. Environmental Microbiology DOI: 10.1111/1462-2920.12998. (in press)

Hagai Raanan, Vincent J. M. N. L. Felde, Stephan Peth, Sylvie Drahorad, Danny Ionescu, Gil Eshkol, Haim Treves, Peter Felix-Henningsen, Simon M. Berkowicz, Nir Keren, Rainer Horn, Martin Hagemann and Aaron Kaplan (2015). 3D structure and cyanobacterial activity within a desert biological soil crust. Environmental Microbiology. (in press)

Leeat Bar-Eyal, Ido Eisenberg, Adam Faust, **Hagai Raanan**, Rienat Nevo, Fabrice Rappaport, Anja Krieger-Liszkay, Pierre Sétif, Aarien Thurotte, Ziv Reich, Aaron Kaplan, Itzhak Ohad, Yossi Paltiel and Nir Keren (2015). An easily reversible structural change underlies mechanisms enabling desert crust cyanobacteria to survive desiccation. *Biochim Biophys Acta*. 1847(10):1267-1273. doi: 10.1016/j.bbabi.2015.07.008.

Haim Treves, **Hagai Raanan**, Omri M. Finkel, Simon M. Berkowicz, Nir Keren, Yoram Shotland and Aaron Kaplan (2013). A newly isolated *Chlorella* sp. from desert sand crusts exhibit a unique resistance to excess light intensity. *FEMS Microbiol. Ecol.*, 86, 373-380.

Itzhak Ohad, **Hagai Raanan**, Nir Keren, Dan Tchernov and Aaron Kaplan (2010). Light-induced changes within photosystem II protects microcoleus sp. in biological desert sand crusts against excess light. *PLoS One*, 5(6): 10.1371/journal.pone.0011000. (Hagai, this is ok...I accidentally deleted the author names...)

Manuscripts in preparation

Hagai Raanan, Yoram Shotland, Haim Treves, Simon M. Berkowicz, Nir Keren, Martin Hagemann and Aaron Kaplan. Light response of desiccation tolerant cyanobacteria: Genomic and physiologic corporation.

Conference Participation

- European Geosciences Union General Assembly 12-17 April, 2015. Oral presentation.
- 38th Annual Conference for Science and the Environment of Israel Society of Ecology and Environmental Sciences 21-22 June Beer-Sheva, Israel. Oral presentation.
- 6th Congress of the Federation of the Israel Societies for Experimental Biology - FISEB (ILANIT) February 7-10, 2011 Eilat, Israel. Poster.
- 4th Congress of European Microbiologist FEMS Geneva, Switzerland June 26-30, 2011, Poster.
- German Research Foundation (“DFG”) International Trilateral Project meeting. “Biotic and abiotic factor affecting biological soil crust formation and recovery in a semiarid dune ecosystem: Gaza and NW Negev”, 26-29 March, 2012, Rauschholzhausen, Germany. Invited speaker.
- 14th International Symposium on Microbial Ecology, ISME14 Copenhagen, Denmark, 19-24 August 2012. FEMS travel grant recipient. Poster.
- European Science Foundation COST Conference on Action ES1104 “Arid Lands Restoration and Combat of Desertification”, 8-10 January, 2013, London, England. Invited Early Stage Researcher.
- 7th Congress of the Federation of the Israel Societies for Experimental Biology (FISEB/ILANIT), February 10-13, 2014, Eilat, Israel. Poster.
- 15th International Symposium on Microbial Ecology, ISME15 Seoul, South-Korea, 24-29 August, 2014. FEMS Travel grant recipient. Poster.

Other

- Early Stage Researcher member: European Science Foundation COST Conference on Action ES1104 “Arid Lands Restoration and Combat of Desertification”
- Computer skills – Programming Lab View & Arduino, Microsoft Office.
- Electronic skills – Basic electronics (DC) including microprocessors. Experience in building innovative simulation and measurement equipment.