Hadas Raveh-Amit, PhD
Nuclear Research Centre Negev, POB 9001, Beer Sheva, 84190, Israel
Work +97286567852 • Mobile +972506244678 • Work email hadasa@nrcn.org.il

EDUCATION

2007-2011 **PhD in Biochemistry and Molecular Biology**
Advisor: Prof. Etta Livneh, Department of Microbiology and Immunology, Faculty of Health Sciences, Ben-Gurion University of the Negev, Beer Sheva, Israel

2005-2007 **Master of Medical Science Degree - *Summa Cum Laude***
Advisor: Prof. Etta Livneh, Department of Microbiology and Immunology, Faculty of Health Sciences, Ben-Gurion University of the Negev, Beer Sheva, Israel

2003-2005 **Bachelor of Science Degree - *Magna Cum Laude***
Department of Life Sciences, Faculty of Natural Sciences, Ben-Gurion University of the Negev, Beer Sheva, Israel

PROFESSIONAL EXPERIENCE

2016-present **Researcher** at the Chemistry Department, Nuclear Research Centre Negev, Beer Sheva, Israel
Expertise in radioactive waste disposal and treatment applications, including microbial-based techniques, design and leads research projects, prepares scientific papers and presents at international conferences

2014-2016 **Senior Scientist** at Horizon Discovery Plc, Cambridge, United Kingdom
Senior product development scientist responsible for conception and development of new diagnostic products

2011-2014 **Post-doctoral fellow – *Recipient of The Marie Curie Fellowship*** at Biotalentum Ltd, Godollo, Hungary
Post-doctoral fellow at a start-up biotech company within the framework of FP7 European Union (EU) projects

2007-2011 **Lecturer** at Ben-Gurion University of the Negev, Beer Sheva, Israel
Lecturer in **"**Genetic Engineering" laboratory course and "Molecular Biology of the Cell"

AWARDS, SCHOLARSHIPS and FELLOWSHIPS

2016-present Katzir Scholarship for excellent young investigators awarded by the Defence R&D Management committee (MAFAT), Israel

2011-2014 Marie Curie Research Fellowship, EU Initial Training Network (ITN) – IDPbyNMR project no. 264257

2013 Young Scientist Award for best young scientist presentation awarded at the 8th European Congress of Biogerontology (ECB), Beer Sheva, Israel

2011 Young Scientists Forum (YSF) Full Travel Grant (one out of 5 non-European fellowships), Federation of European Biochemical Societies (FEBS), Torino, Italy

2007-2011 Scholarship for Outstanding Doctoral Students, Kreitman School of Advanced Graduate Studies, Ben-Gurion University of the Negev, Beer Sheva, Israel

2010 Prize for Excellence in Biomedical Research, Faculty of Health Sciences, Ben-Gurion University of the Negev, Beer Sheva, Israel

2008 Keystone Symposia Scholarship (one out of 2 selected abstracts) awarded by The National Institutes of Health (NIH), USA

2008 Best Poster Award, Division of Basic Sciences, Ben-Gurion University of the Negev, Beer Sheva, Israel

CURRENT RESEARCH INTEREST

- Amelioration of soil mechanical properties using bacteria
- Chemical and biological properties of soil
- Thermal decomposition of organic solid waste
- Catalysis and zeolites for solid waste treatment

SCIENTIFIC VISITS

• Protein expression in bacteria, purification by metal ion affinity chromatography, and optimization of protein solubilisation towards NMR studies, in Magnetic Resonance Center of the University of Florence, Florence, Italy, April 2013

• Protein kinase activity by Fluorescence Resonance Energy Transfer (FRET), in the laboratory of Prof. Jonathan Chernoff, Fox Chase Cancer Center, Philadelphia, PA, USA, January 2008

SCIENTIFIC WORKSHOPS and COURSES

• Advanced course in Gas Chromatography, November 2016, provided by Bioforum, Psagot College, Rechovot, Israel

• Principles of NMR and NMR parameters used in IDP structure calculation, CNRS-IBS, Grenoble, France, August 29-30, 2013

• Small-angle X-ray scattering (SAXS) and computational techniques, EMBL, Hamburg, Germany, March 11-16, 2013

• Flow Cytometry Gallios-Navios-FC500 Application, Beckman Coulter Inc, Nyon, Switzerland, May 21-25, 2012

• Bioinformatics and Structural biology of Intrinsically Disordered Proteins, Budapest, Hungary, October 10-14, 2011

SCIENTIFIC MANAGEMENT WROKSHOPS

• Managing Life Science Projects course provided by One Nucleus, Cambridge, UK, September 29-30, 2015

• Intellectual Properties Rights and Finances, Zurich, Switzerland, September 4-6, 2013

• Scientific Writing and Project Management, Tuscany, Italy, October 25-28, 2012

• Project Management, Benchmarks and Competition in Research, St Moritz, Switzerland, February 7-10, 2012

INVITED ORAL PRESENTATIONS

• Bio-cementation of capping layers in near-surface radioactive disposal sites using microbial induced calcite precipitation, the 18th Israel Materials Engineering Conference, Dead Sea, Israel, to be held in February, 2018

• Using indigenous soil bacteria for physico-mechanical soil improvement of capping layers in near-surface radioactive disposal Sites, the 4th Conference of the Israel Society for Biotechnology Engineering (ISBE), Tel-Aviv, Israel, December, 2017

• Catalytic pyrolysis of high density polyethylene over zeolites as a method for contaminated solid waste treatment, Waste Management and Landfill Symposium, Sardinia, Italy, October 2017

• Using Reference Standards to analyse the sensitivity and specificity of assays optimised for cell-free DNA detection, Circulating Biomarkers Conference, Dundee, Scotland, October 2014

• Epiblast stem cells: new tools and possibilities, Annual Marie Curie intensive training for PhD student and postdocs - State-of-the-art cellular methods training, Biotalentum Ltd, Godollo, Hungary, November 2013

• From human stem cells to intrinsically disordered proteins, Magnetic Resonance Center of the University of Florence, Florence, Italy, April 2013

• Cancer stem cells networks and protein misfolding, European Congress of Biogerontology (ECB), Beer Sheva, March 2013

• Interplay between two upstream Open Reading Frames (uORFs): role in stress-induced translational regulation, the 11th Young Scientist Forum on Biochemistry for Tomorrow's Medicine, Torino, Italy, June 2011

LANGUAGES

Fluent in English and Hebrew

COMPUTER SKILLS

Proficient in MS Office Suite (Word, Excel, PowerPoint, Project, Publisher & Outlook), GraphPad/Prism (scientific graphing and biostatistics), ImageJ

Completed an Excel 2010 Advanced Course by FROG Training, 22 September 2015, Cambridge, UK

KEY SCIENTIFIC PUBLICATIONS

- Baronti L, Hosek T, Gil-Caballero S, **Raveh-Amit H**, Calcada EO, Ayala I, Dinnyes A, Felli IC, Pierattelli R, Brutscher B. Fragment-Based NMR Study of the Conformational Dynamics in the bHLH Transcription Factor Ascl1. Biophys J. (2017) Apr 11;112(7):1366-1373.
- Takacs E, Boto P, Simo E, Csuth TI, Toth BM, **Raveh-Amit H**, Pap A, Kovacs EG, Kobolak J, Benkö S, Dinnyes A, Szatmari I. Immunogenic Dendritic Cell Generation from Pluripotent Stem Cells by Ectopic Expression of Runx3. J Immunol. (2017) Jan 1;198(1):239-248.
- Bock I, **Raveh-Amit H**, Losonczi E, Carstea AC, Feher A, Mashayekhi K, Matyas S, Dinnyes A, Pribenszky C. Controlled hydrostatic pressure stress downregulates the expression of ribosomal genes in preimplantation embryos: a possible protection mechanism? Reprod Fertil Dev. (2016) Apr;28(6):776-84.
- Cedeno C, **Raveh-Amit H**, Dinnyes A, Tompa P. Towards Understanding Protein Disorder In-Cell. Adv Exp Med Biol. (2015);870:319-34.
- Santos Franco S, **Raveh-Amit H**, Kobolak J, Alqahtani MH, Mobasheri A, Dinnyes A. The crossroads between cancer stem cells and aging. BMC Cancer. (2015);15 Suppl 1:S1. doi: 10.1186/1471-2407-15-S1-S1.
- **Raveh-Amit H**, Berzsenyi S, Vas V, Ye D, Dinnyes A. Tissue resident stem cells: till death do us part. Biogerontology. (2013) Dec;14(6):573-90.
- ¥Phanthong P, **¥Raveh-Amit H**, Li T, Kitiyanant Y, Dinnyes A. Is aging a barrier to reprogramming? Lessons from induced pluripotent stem cells. Biogerontology. (2013) Dec;14(6):591-602. **¥equal contribution**
- Shahaf G, Rotem-Dai N, Koifman G, **Raveh-Amit H**, Frost SA, Livneh E. PKCη is a negative regulator of AKT inhibiting the IGF-I induced proliferation. Exp Cell Res. (2012) Apr 15;318(7):789-99.
- **Raveh-Amit H**, Hai N, Rotem-Dai N, Shahaf G, Gopas J, Livneh E. Protein kinase Cη activates NF-κB in response to camptothecin-induced DNA damage. Biochem Biophys Res Commun. (2011) Aug 26;412(2):313-7.
- **Raveh-Amit H**, Maissel A, Poller J, Marom L, Elroy-Stein O, Shapira M, Livneh E. Translational control of protein kinase Ceta by two upstream open reading frames. Mol Cell Biol. (2009) Nov;29(22):6140-8.