Curriculum Vitae

Tommer Ravid, PhD

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##### Higher Education:

1988-1991 BSc, Biology, the Hebrew University of Jerusalem, Faculty of Science, Jerusalem, Israel.

1992-1994 MSc, Tel-Aviv University, George S. Wise Faculty of Life Science, Department of Biochemistry, Tel Aviv, Israel.

1995-2000 PhD, Tel Aviv University, Sackler School of Medicine, Department of Clinical Biochemistry, Tel-Aviv, Israel.

2000-2003 Post-Doctorate with Dr Tzipora Goldkorn, University of California, Davis, UC Davis Medical School Division of Pulmonary and Critical Care Medicine.

2003-2007 Post-Doctorate /Associate Research Scientist with Dr Mark Hochstrasser, Yale University, Yale Medical School, Department of Molecular Biochemistry & Biophysics.

**Appointments:**

2007-2015 Senior Lecturer, Department of Biological Chemistry, Faculty of Life Sciences.

2015-2016 Visiting Scholar with Dr B. Craig, University of Wisconsin Madison, USA

2016-present Associate Professor, Department of Biological Chemistry, Faculty of Life Sciences.

**Research atatement**

My Lab research aims at deciphering the mechanisms of quality control associated proteolysis by the ubiquitin-proteasome system. In particular, we are interested in elucidating how misfolded proteins are targeted for degradation, which includes:

* Identity of the degradation signals (degrons) and their cognate E3 ligases
* The precise role of molecular chaperones in misfolded protein degradation/aggregation
* Endoplasmic Reticulum Associated Proteolysis

**SELECTED PUBLICATIONS:**

* + Mashahreh B, Armony S, Johansson KE, Chapelbaum A, Friedman, N, Gardner RG, Hartmann-Petersen R, Lindorff-Larsen K, and Ravid T. (2022). *Nat Comms* 13(1), 7588.
  + Johansson KE, Mashahreh B, Hartmann-Petersen R, Ravid T, and Lindorff-Larsen K. (2023). Prediction of quality-control degradation signals in yeast proteins. *J Mol Biol,* 435(2) 167915
  + Nielsen SV, Lindemose S, Caregnato A, Ravid T, Stein A, Teilum K, Lindorff-Larsen K, & Hartmann-Petersen R. (2022). Disease-linked mutations cause exposure of a protein quality control degron. *Structure*, S0969-2126(22)00190-3.
  + Ella, H, Reiss, Y, & Ravid, T (2019). The hunt for degrons of the 26S proteasome. Biomolecules 9 (6), 230 (Review).
* Enam C, Geffen Y, Ravid T and Gardner RG. (2018) Protein Quality Control Degradation in the Nucleus. *Ann. Rev. Biochem.* 87(1) 725-749. (Review)
* Geffen Y, Appleboim A, Gardner RG & **Ravid, T**. (2018). Integrated proteogenomic approach for identifying degradation motifs in eukaryotic cells.
* Geffen Y, Appleboim A, Gardner RG, Sadeh A, Friedman N and Ravid T. (2016) Mapping the landscape of a eukaryotic degronome. *Mol. Cell* 63 (6), 1055-1065.
* Weber A, Cohen I, Popp O, Dittmar, G, Reiss Y, Sommer T, Ravid T and Jarosch E. (2016) Sequential Poly-ubiquitylation by Specialized Conjugating Enzymes Expands the Versatility of a Quality Control Ubiquitin Ligase. *Mol. Cell* 63(5) 827-839.
* Cohen I, Wiener R, Reiss Y, and Ravid T. (2015) Distinct activation of an E2 ubiquitin-conjugating enzyme by its cognate E3 ligases. *Proc Natl Acad Sci U S A* 112, E625-632
* Cohen I, Geffen Y Ravid G and Ravid T (2014). A reporter-based assay for systematic investigation of protein degradation. J. Vis. Exp. 6(93), e52021.
* Ravid T, and Hochstrasser M. (2008) Diversity of degradation signals in the ubiquitin-proteasome system. *Nat Rev Mol Cell Biol* 9, 679-690 (Review)