#### Curriculum Vitae

## A. Personal Details

##### Mazor, Yuval

E-mail: ymazor@asu.edu

Phone: (480) 965-3221

Date and Place of Birth: 2/9/76, Israel

# B. Education

2005-2009 Tel Aviv University Biology PhD.

2002-2004Tel Aviv University Biology M.Sc. with honors

1998-2002 Tel Aviv University Biology B.Sc.

**C. Teaching experience:**

2016-2017: BCH598/BCH494, photosynthesis past and present.

2016-2017: BCH 561, a lecture on the structural biology of photosynthetic systems.

2006-2007: Teaching assistant, Tel Aviv University, General microbiology lab.

2004-2006: Teaching assistant, Tel Aviv University, Molecular biology lab.

2003-2003: Teaching assistant, Tel-Aviv University, advanced lab on bacterial genetics.

2002-2002: Teaching assistant, Tel-Aviv University, advanced lab on yeast genetics.

**D. Research Experience**

**2016-present** **Assistance professor** Arizona State University, School of molecular sciences. The biodesign institute.

**2009-2016 Post doc** position in the lab of Prof. Nathan Nelson, Tel Aviv University. Structural and biochemical analysis of photosystem I from cyanobacteria and higher plants.

**2005-2009 PhD thesis:** “Analysis of pathways regulating DNA repair and heterochromatin assembly in budding yeast“. Under the supervision of Prof. Marin Kupiec.

**2005-2005** "Identifying Genetic Determinants of Pattern Formation in an undomesticated strain of *Bacillus subtilis*". In Collaboration with Prof. Dave Gutnick.

**2002-2004 Master thesis project:** “The effect of *elg1* on telomere length regulation and silencing - a study in budding yeast, *S. cerevisiae*”.

Advisor: the late Dr. Anat Krauskopf and Prof. Martin Kupiec.

**2001 Undergraduate research project:** “Control of telomere length in yeast”. Advisor: Dr. Anat Krauskopf.

# E. Active Participation in Scientific Meetings

2017 Western Photosynthesis Conference – “The structure of plant photosystem I, what can we see at 2.6Å”. **Invited talk**.

2015 International Plant Molecular Biology 2015 - “Structure, Function and Evolution of Photosystem I” - Iguazo, Brazil. **Invited talk.**

2015 LCLS/SSRL Users Meeting “The structure of plant PSI - LHCI complex, a membrane super-complex” - Stanford, USA. **Invited talk.**

2015 Gordon Research Conference on photosynthesis - “High-resolution structures of plant and cyanobacterial Photosystem I” - Boston, USA. **Best poster award and a talk.**

2015 ICA - “High-resolution structures of plant and cyanobacterial Photosystem I” - poster presentation

2014 FISEB - “Structure, Function and Evolution of Photosystem I” - **Invited talk**

2011FISEB - “A CYANOVIRUS INSPIRED PROMISCUOUSPHOTOSYSTEM I COMPLEX” - poster presentation

2008 FISEB – “Stress activated MAPK regulate telomeric heterochromatin in *S. Cerevisiae” -* poster presentation

2008 Genome Stability in Health and Disease - "Non-covalent interaction between clamp loading complexes, sumo and ubiquitin" – poster presentation

2005 FISEB – "Cell Type and ploidy regulate gene silencing in the yeast *Saccharomyces cerevisiae*" – poster presentation.

2005 FISEB - “A role for calcium ions in mediating cooperative behavior in undomesticated *bacillus subtilis*" – poster presentation.

## F. List of Publications

**Peer reviewed journals:**

1. **Mazor Y**, Borovikova A, Caspy I, Nelson N. (2017) “The structure of plant photosystem I supercomplex at 2.6 Å resolution.” Nature plants, 3, 17014.
2. **Mazor Y**, Borovikova A, Nelson N. (2015) “The structure of plant photosystem I super-complex at 2.8 Å resolution.” eLife, e07433.
3. **Mazor Y,** Nataf D, Toporik H, Nelson N. (2014) “Crystal structures of virus-like photosystem I complexes from the mesophilic cyanobacterium Synechocystis PCC 6803.” eLife, e01496.
4. **Mazor Y,** Greenberg I, Toporik H, Beja O, Nelson N. (2012) “The evolution of photosystem I in light of phage-encoded reaction centres.". Phil. Trans. R. Soc. B, 367(1608)3400:5.
5. **Mazor Y**, Toporik H, Nelson N. (2012) "Temperature-sensitive PSII and promiscuous PSI as a possible solution for sustainable photosynthetic hydrogen production". BBA, 1817(8):1122-6.
6. Omer S**,** Kovacs A, **Mazor Y,** Gophna U. (2009) "Complex integration does not impair fitness in an experimental model of lateral gene transfer." Mol Biol Evol, 27(11):2441-5.
7. **Mazor Y**, Kupiec M. (2009) "Developmentally regulated MAPK pathways modulate heterochromatin in *Saccharomyces cerevisiae".* NAR, Vol. 37(14):4839-49.
8. [Parnas O](http://www.ncbi.nlm.nih.gov/sites/entrez?db=pubmed&cmd=search&term=%2522parnas%2520o%2522%255bauthor%255d&itool=entrezsystem2.pentrez.pubmed.pubmed_resultspanel.pubmed_discoverypanel.pubmed_rvabstractplus), [Zipin-Roitman A](http://www.ncbi.nlm.nih.gov/sites/entrez?db=pubmed&cmd=search&term=%2522zipin-roitman%2520a%2522%255bauthor%255d&itool=entrezsystem2.pentrez.pubmed.pubmed_resultspanel.pubmed_discoverypanel.pubmed_rvabstractplus)**,** [Mazor Y](http://www.ncbi.nlm.nih.gov/sites/entrez?db=pubmed&cmd=search&term=%2522mazor%2520y%2522%255bauthor%255d&itool=entrezsystem2.pentrez.pubmed.pubmed_resultspanel.pubmed_discoverypanel.pubmed_rvabstractplus), [Liefshitz B](http://www.ncbi.nlm.nih.gov/sites/entrez?db=pubmed&cmd=search&term=%2522liefshitz%2520b%2522%255bauthor%255d&itool=entrezsystem2.pentrez.pubmed.pubmed_resultspanel.pubmed_discoverypanel.pubmed_rvabstractplus), [Ben-Aroya S](http://www.ncbi.nlm.nih.gov/sites/entrez?db=pubmed&cmd=search&term=%2522ben-aroya%2520s%2522%255bauthor%255d&itool=entrezsystem2.pentrez.pubmed.pubmed_resultspanel.pubmed_discoverypanel.pubmed_rvabstractplus), [Kupiec M](http://www.ncbi.nlm.nih.gov/sites/entrez?db=pubmed&cmd=search&term=%2522kupiec%2520m%2522%255bauthor%255d&itool=entrezsystem2.pentrez.pubmed.pubmed_resultspanel.pubmed_discoverypanel.pubmed_rvabstractplus). (2009) "The ELG1 clamp loader plays a role in sister chromatid cohesion." PLoS ONE 4(5): e5497.
9. Smolikov S, **Mazor Y,** Krauskopf A. (2004) *"ELG1*, a regulator of genome stability, has a role in telomere length regulation and in silencing." Proc Natl Acad Sci U S A. 101: 1656-1661

**Chapters in books:**

1. “"Higher Plant and Cyanobacterial Photosystem I: Connected Cytochrome Pathways" **Mazor Y** and Nelson N. in “Cytochrome Complexes: Evolution, Structures, Energy Transduction, and Signaling”, Advances in Photosynthesis and Respiration, Volume 41, 2016.

## G. Awards

2005 The Joan and Jaime Constantiner Travel Scholarship.