

BIOGRAPHICAL SKETCH

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NAME: Binshtein, Elad

eRA COMMONS USER NAME (credential, e.g., agency login): BINSHTE

POSITION TITLE: Senior Staff Scientist (Cryo-EM)

EDUCATION/TRAINING (*Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.*)

INSTITUTION AND LOCATION	DEGREE (if applicable)	END DATE MM/YYYY	FIELD OF STUDY
Ben Gurion University of the Negev, Beer Sheva, ISRAEL	BS	09/2002	Biochemistry
Ben Gurion University of the Negev, Beer Sheva, ISRAEL	MS	09/2006	Biochemistry and Structure biology
Ben Gurion University of the Negev, Beer Sheva, ISRAEL	PHD	09/2010	Biochemistry and Structure biology
Vanderbilt University, Nashville, TN	Postdoctoral Fellow	08/2016	Structure biology

A. Personal Statement

Structural biologist and biochemist with strong expertise in protein expression (bacteria and insects cell), protein purification and cryo-EM. Experience in structure determination, protein analytic characterization using calorimetry and other analytical techniques and biochemical assays for enzyme kinetics. Cryo-EM: More than 10 years of single particle (SPA) negative stain and cryo-EM experience. I have mastered all aspects of structure determination by single particle cryo-EM. I have obtained <3.0Å maps of "real" sample by cryo-EM on Krios/K3 and <2Å for Apoferritin on Krios/K3. Set up the pipelines from sample preparation to EM auto-data collection, and processing. I had been worked on a variety of samples including macro-molecule complex, membrane proteins, toxins, viruses and Fab-proteins complexes. I had supervised and trained graduate students, postdocs and PI from various backgrounds on their cryo-EM projects.

B. Positions, Scientific Appointments and Honors**Positions and Scientific Appointments**

2019 -	Senior Staff Scientist (Cryo-EM), Vanderbilt University Medical Center, Vanderbilt Center for Antibody Therapeutics (VCAT), Nashville, TN
2016 - 2019	Cryo-EM specialist - Senior Staff Scientist, Vanderbilt University Center for Structure Biology (CSB), Nashville, TN
2011 - 2016	Research fellow, Department of cell and Development, Vanderbilt University, Nashville, TN
2005 - 2010	Teaching assistant and laboratory instructor in Microbiology, Ben Gurion University, Beer Sheva
2005 - 2010	Teaching assistant and laboratory i nstructor in Microbiology, Achva Academic College

Honors

2009	Young Scientist Forum (YSF) , FESB
2008	Best Poster Presentation Award, 7th International Conference on Mechanisms and Physiology of Thiamine

2002	Scholarship for excellence in academic achievements, Ben Gurion University
2001	Scholarship for excellence in academic achievements, Achva Academic College
1999	Israeli Defense Force Scholarship for Outstanding Officers, IDF

C. Contribution to Science