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OSNAT HERZBERG

Biography



CONTACT INFORMATION

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 ☐ Group Website

Professor

Education

Ph.D. Biochemistry, Weizmann Institute, 1982

Research Interests

Structural Biology, Protein Crystallography.

We are Structural Biologists interested in the relationship between the function and structure of proteins. We use X-ray crystallography to determine the structures of our molecules of interest, and various computational tools to analyze these structures. Some of our projects include:

Mechanisms of complex human disease

Structure and function of Myovirus phage CBA120 tailspike proteins

Giardia Drug Targets – structure, function and inhibitor design.

The pyruvate phosphate dikinase and Enzyme I molecular machines: Spare parts and swiveling domain mechanism.

Publications

Thakur M, Sharma K, Chao K, Smith AA, Herzberg O, Pal U. 2017. "A protein-protein interaction dictates Borrelial infectivity". Sci Rep. 7:2932.

Chao, K. L., L. Kulakova, and O. Herzberg. 2017. "Gene polymorphism linked to increased asthma and IBD risk alters gasdermin–B structure, a sulfatide and phosphoinositide binding protein." Proc Natl Acad Sci U S A 114(7):E1128–E1137.

Pal, L. R., K. L. Chao, J. Moult, and O. Herzberg. 2017. "Reply to HU et al.: On the interpretation of gasdermin-B expression quantitative trait loci data". Proc Natl Acad Sci U S A 114(38):E7863-E7864.



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