



Department of
Structural Biology

Prof. Joel Sussman

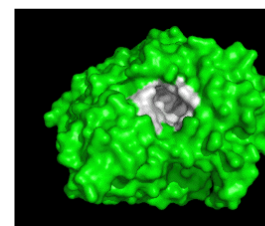
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The Morton and Gladys Pickman Professor of Structural Biology

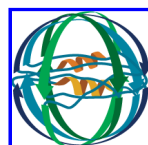


[Joel's CV](#)

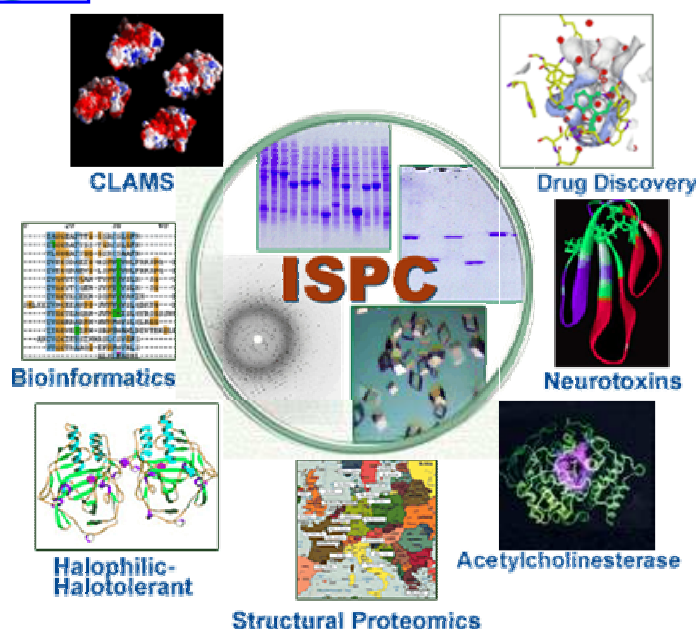
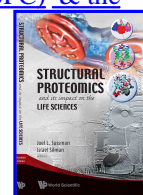
[AChE](#)

Together with Prof. Israel Silman (Neurobiology), we are studying the 3D structure/function of nervous system proteins, such as acetylcholinesterase ([AChE](#)), cholinesterase-like adhesion molecules (CLAMs), snake toxins, β -glucosidase, β -secretase & paraoxonase. Our goal is to find new leads for treating neurological disorders, including Alzheimer's Disease and autism. We are also studying *intrinsically unstructured* proteins and how proteins adapt to extreme environments, *e.g.* *halotolerant* proteins.

We've established the [Israel Structural Proteomics Center \(ISPC\)](#) & the [Jean Goldwurm 3D Visualization Theater](#) (protein structures in 3D). We're coordinating the EC [Forum for European Structural Proteomics \(FESP\)](#) and have edited: [Structural Proteomics and Its Impact on Life Sciences](#).



We've also created [Proteopedia](#), the collaborative, 3D encyclopedia of proteins and other molecules, *e.g.* see [AChE](#). For a podcast interview with Joel Sussman, see [Meet the Scientists](#).



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Comments and Suggestions: michal.harel@weizmann.ac.il

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