



## Kevin Rose

Postdoctoral Scholar, Structural Biology

### Bio

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#### STANFORD ADVISORS

- Peter Dahlberg, Postdoctoral Faculty Sponsor

### Publications

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#### PUBLICATIONS

- **In situ cryo- ET visualization of mitochondrial depolarization and mitophagic engulfment** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
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- **Correlating physiology and structure with fluorescent biosensors and cryo-ET**  
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- **A RAB7A phosphoswitch coordinates Rubicon Homology protein regulation of Parkin-dependent mitophagy.** *The Journal of cell biology*  
Tudorica, D. A., Basak, B., Puerta Cordova, A. S., Khuu, G., Rose, K., Lazarou, M., Holzbaur, E. L., Hurley, J. H.  
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- **Tau fibrils induce nanoscale membrane damage and nucleate cytosolic tau at lysosomes.** *Proceedings of the National Academy of Sciences of the United States of America*  
Rose, K., Jepson, T., Shukla, S., Maya-Romero, A., Kampmann, M., Xu, K., Hurley, J. H.  
2024; 121 (22): e2315690121
- **In vitro reconstitution of calcium-dependent recruitment of the human ESCRT machinery in lysosomal membrane repair.** *Proceedings of the National Academy of Sciences of the United States of America*  
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- **When in Need of an ESCRT: The Nature of Virus Assembly Sites Suggests Mechanistic Parallels between Nuclear Virus Egress and Retroviral Budding (vol 13, 1138, 2021)** *VIRUSES-BASEL*  
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- **From Capsids to Complexes: Expanding the Role of TRIM5 $\alpha$  in the Restriction of Divergent RNA Viruses and Elements.** *Viruses*  
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- **Budding of a Retrovirus: Some Assemblies Required.** *Viruses*  
Rose, K. M., Hirsch, V. M., Bouamr, F.  
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- **A helical assembly of human ESCRT-I scaffolds reverse-topology membrane scission.** *Nature structural & molecular biology*  
Flower, T. G., Takahashi, Y., Hudait, A., Rose, K., Tjahjono, N., Pak, A. J., Yokom, A. L., Liang, X., Wang, H. G., Bouamr, F., Voth, G. A., Hurley, J. H.  
2020; 27 (6): 570-580
- **Selection of 2'-Deoxy-2'-Fluoroarabino Nucleic Acid (FANA) Aptamers That Bind HIV-1 Integrase with Picomolar Affinity.** *ACS chemical biology*  
Rose, K. M., Alves Ferreira-Bravo, I., Li, M., Craigie, R., Ditzler, M. A., Holliger, P., DeStefano, J. J.  
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