

FSU
WELCOME

2024 Postdoctoral
Fall Symposium

The Office of Postdoctoral Affairs
The Graduate School | Florida State University

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The Office of Postdoctoral Affairs

Presents:



FIVE MINUTE RESEARCH

POSTDOC COMPETITION



Florida State University



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Behrouz Ghazi Esfahani

Institute of Molecular Biophysics

SPOT-RASTR: A Novel Method to Prepare CRYO EM Samples

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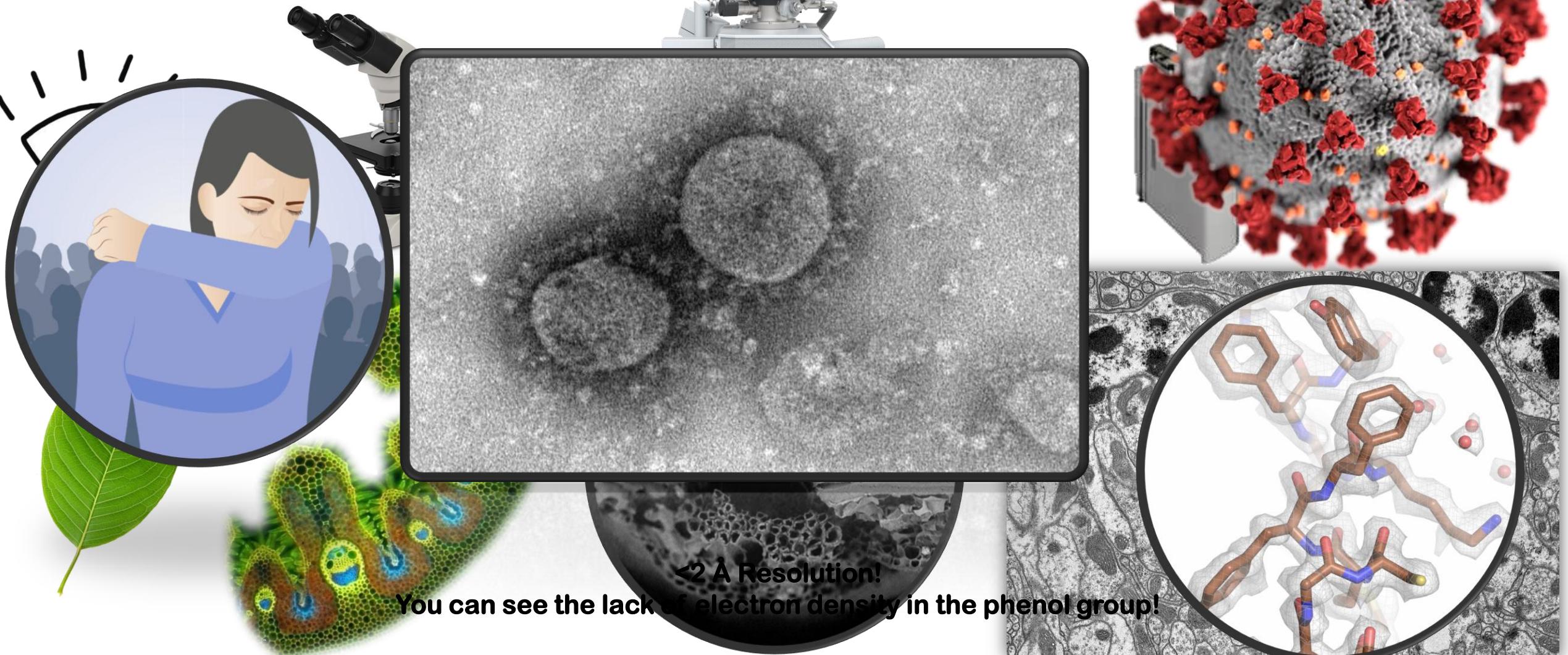
Introducing the SPOT-RASTR

- Behrouz Ghazi Esfahani
- 5-minute research
- September 27th, 2024

Well, let's look!

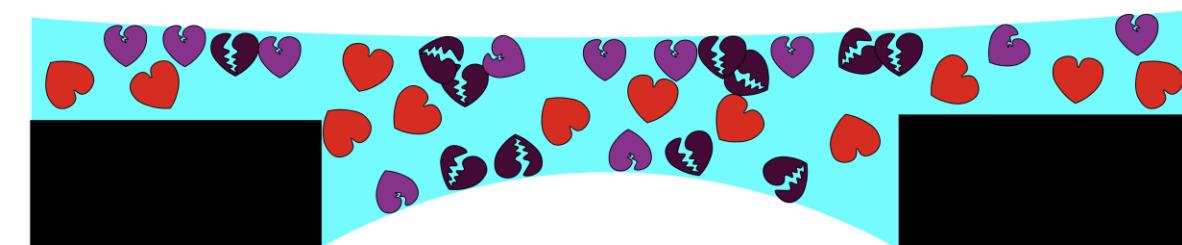
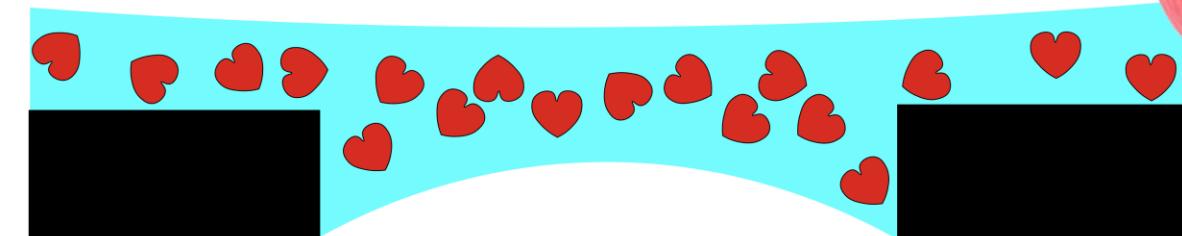
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Zooming in!



Many challenges are present in sample prep

Sample denaturation

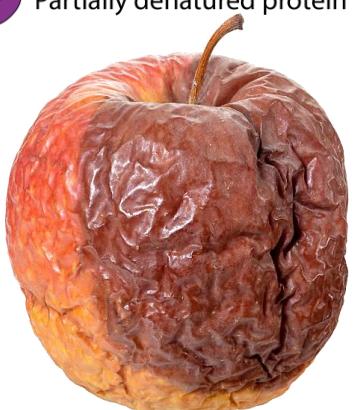
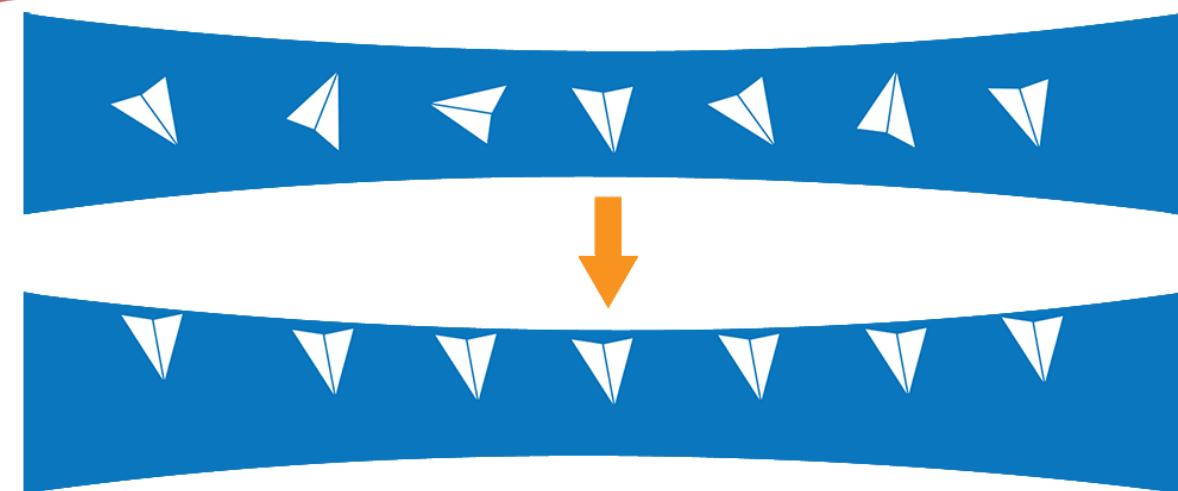


Heart Intact protein

Heart with a crack Partially denatured protein

Heart with multiple cracks Completely denatured protein

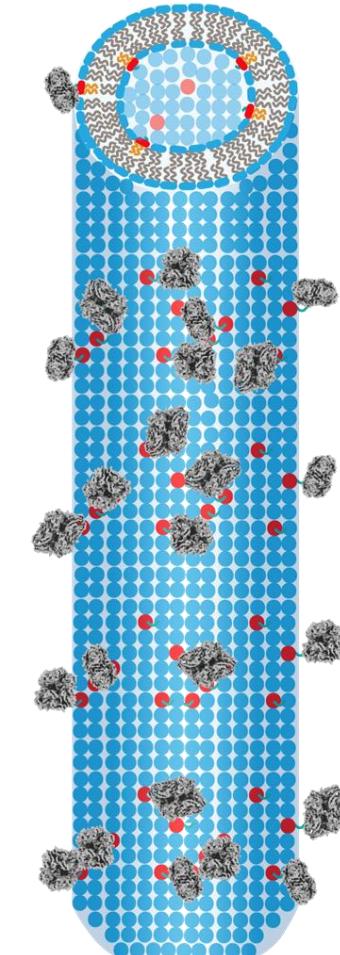
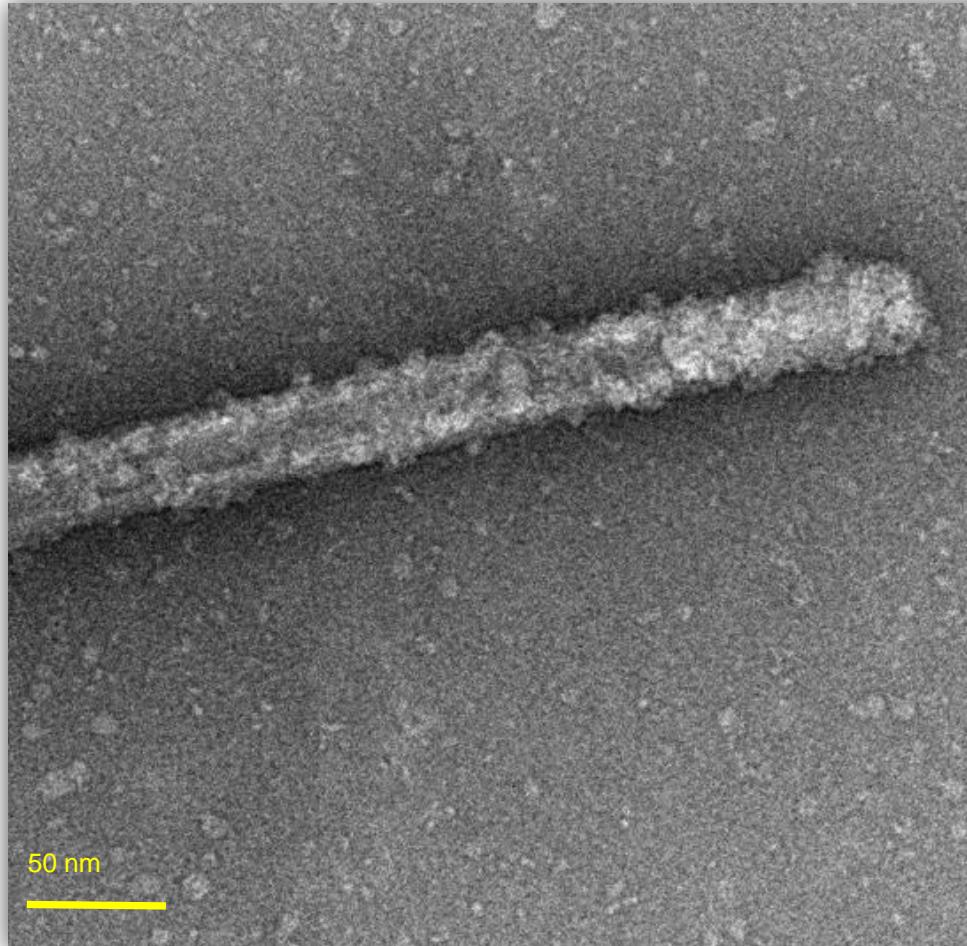
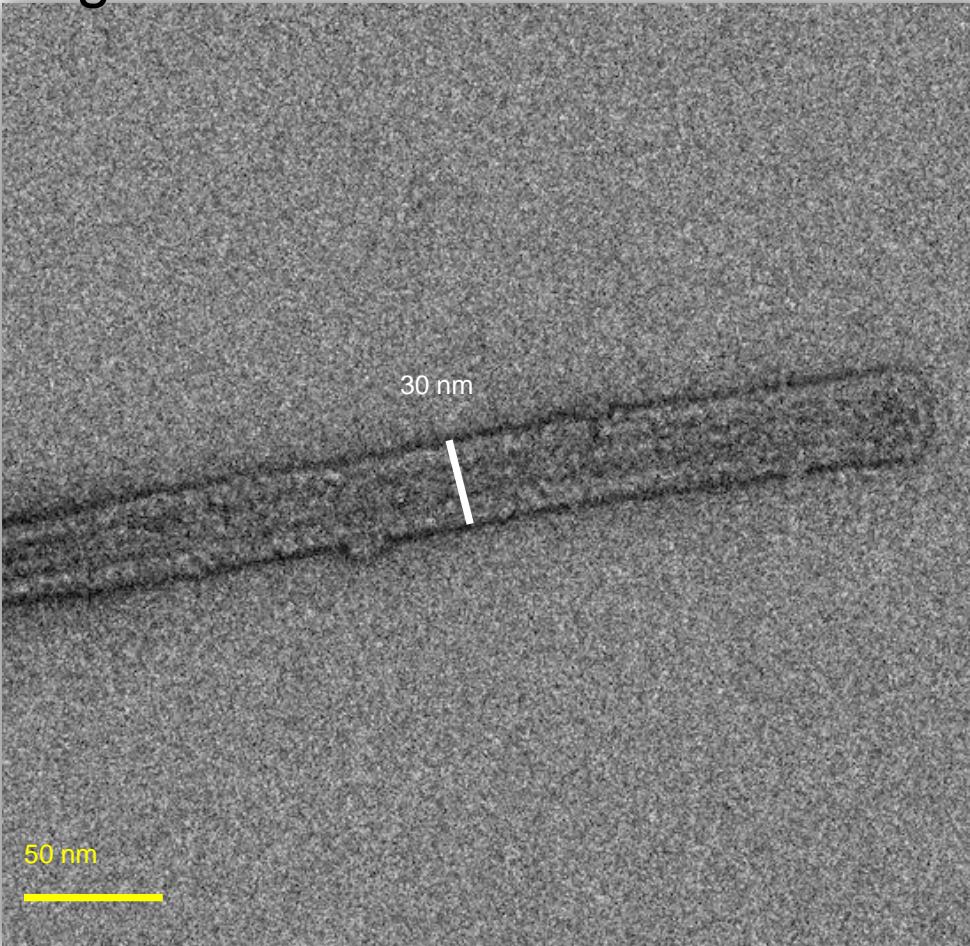
Preferred orientation



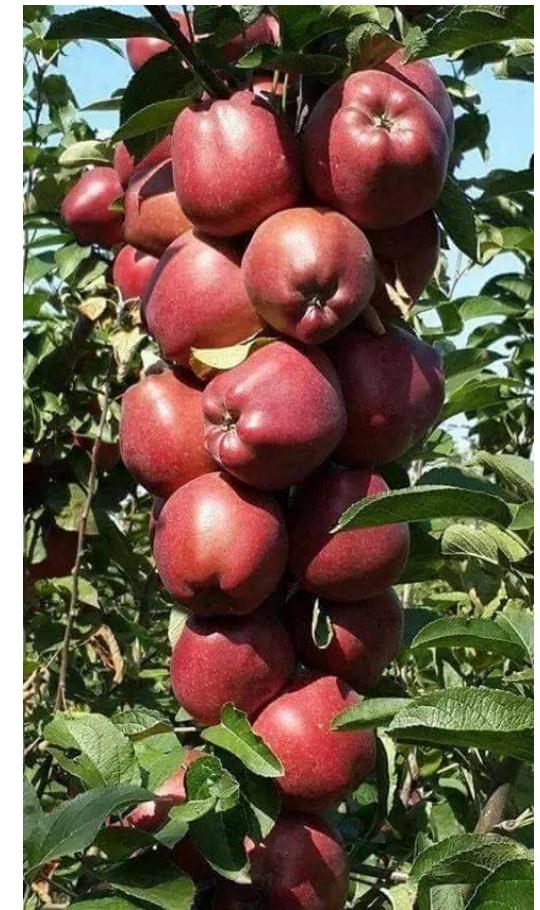
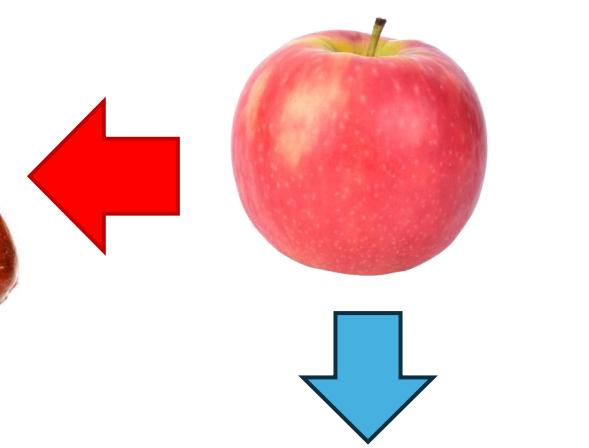
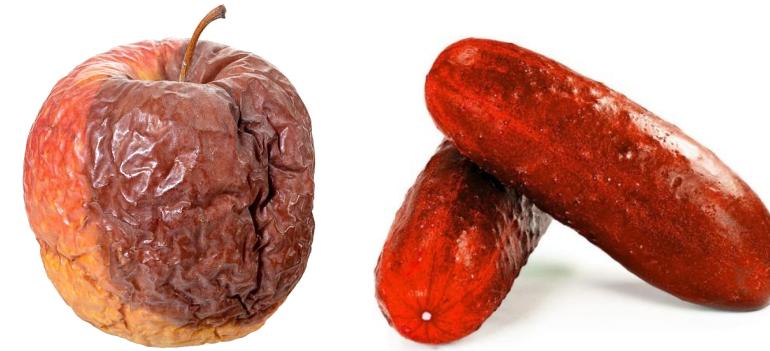
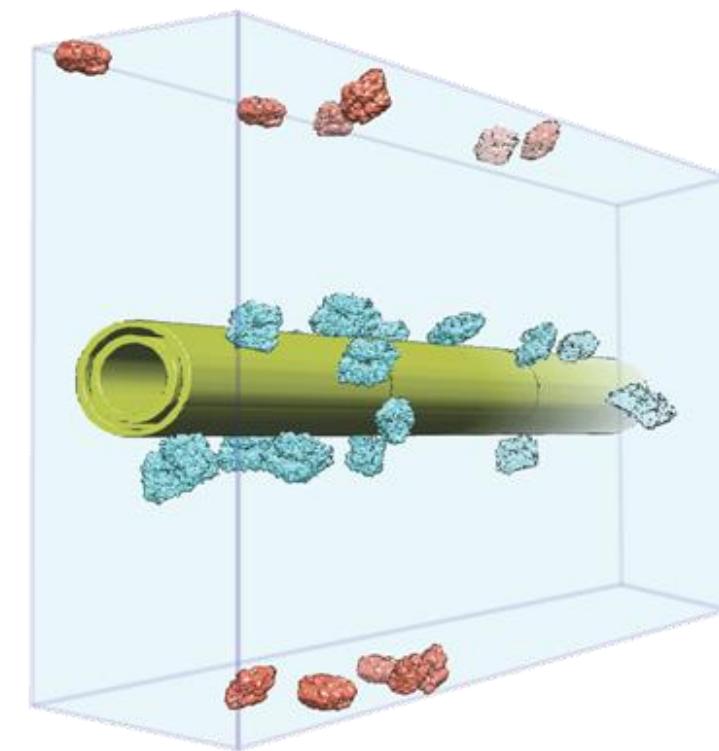
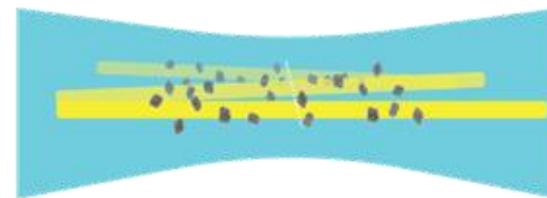
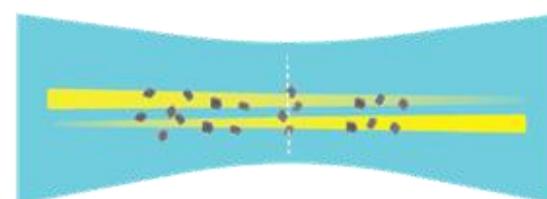
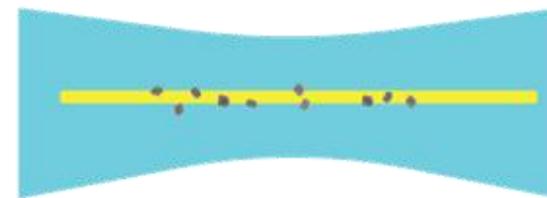
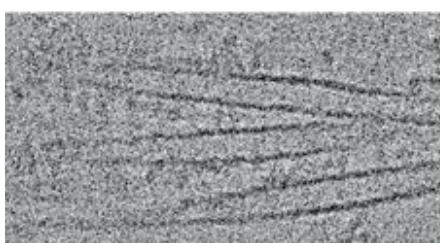
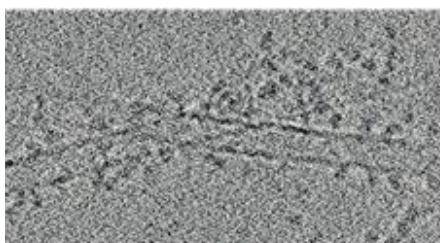
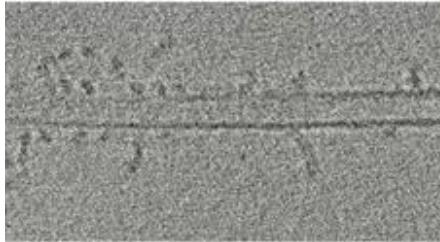
Proposing SPOT-RASTR to prevent the issues



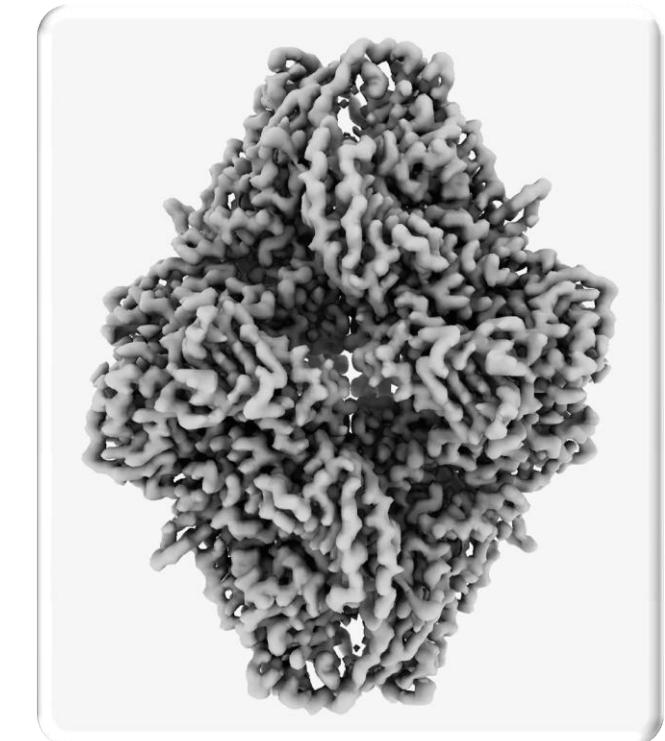
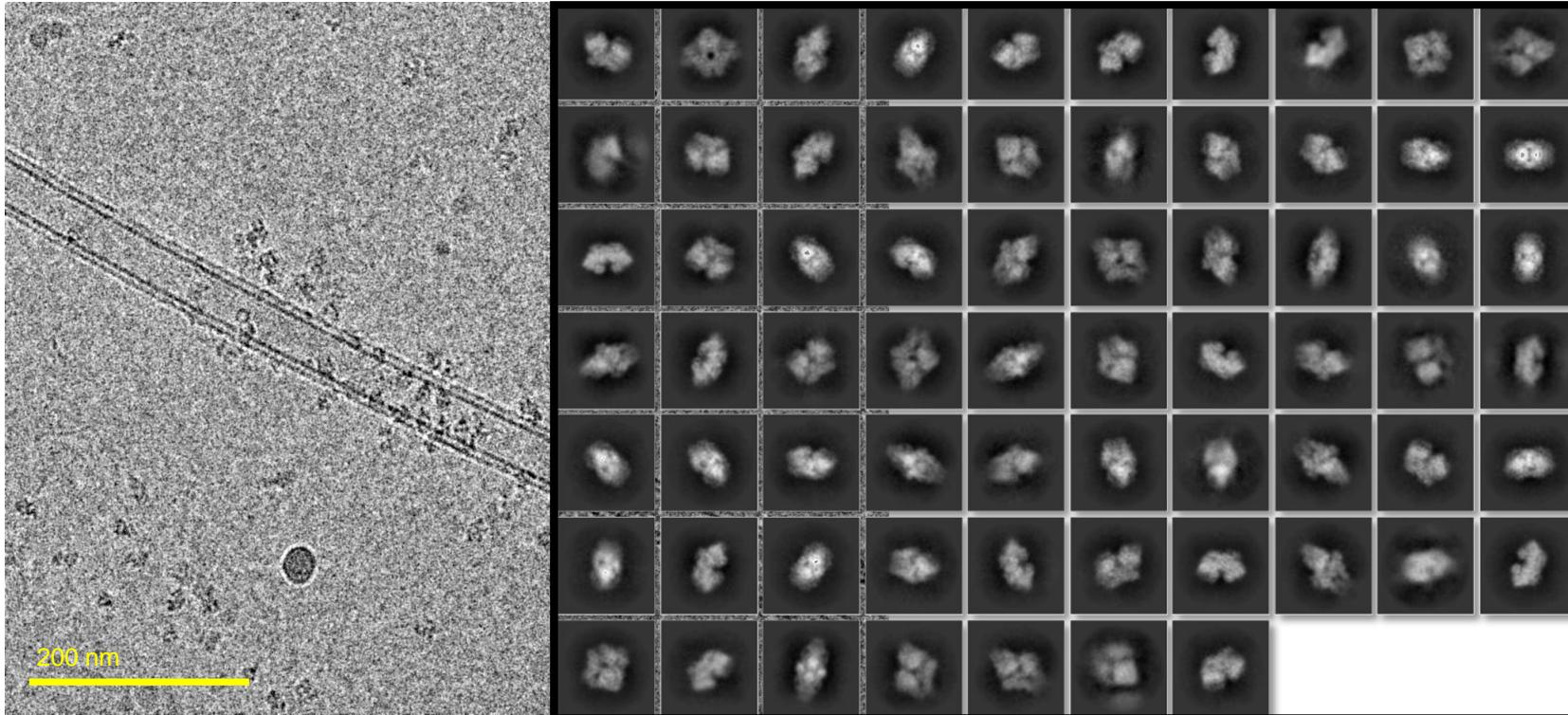
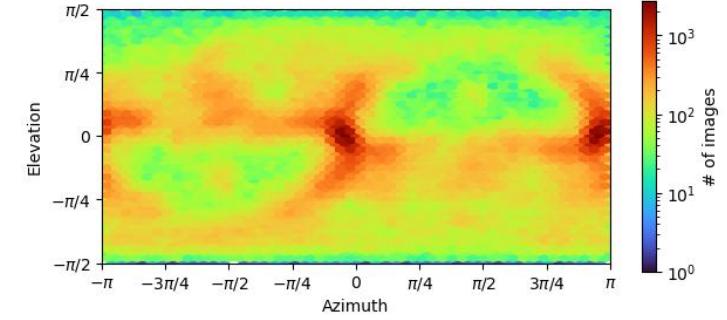
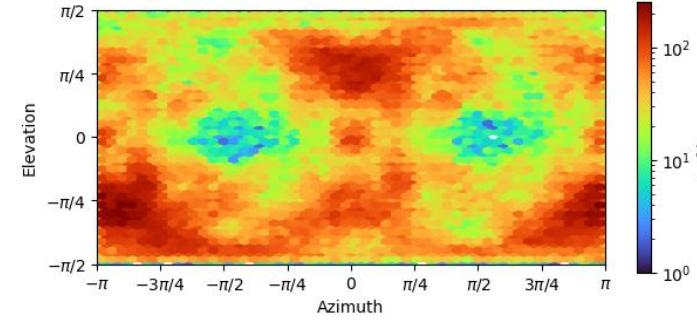
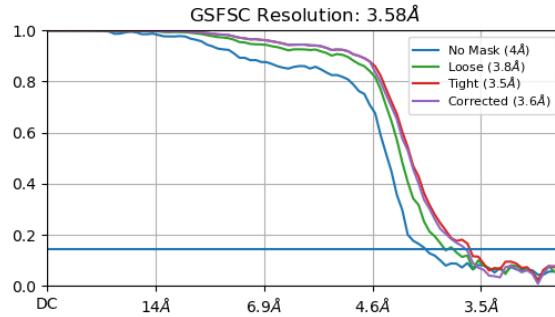
Sample Preparation On Tubes - Reconstruction of Azimuthal Subtracted Tubular Regions



Proof of concept



Data processing to high resolution!



Acknowledgements



Jing Wang
Dean and Professor
PhD, MPH, RN, FAAN



Hye Jin Park
Associate Professor
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Data Scientist



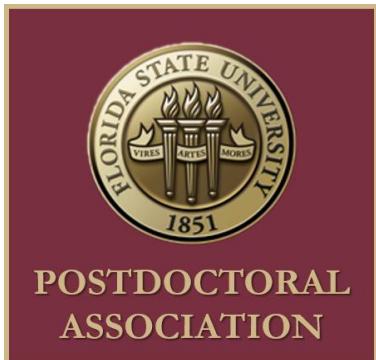
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2 - Behrouz Ghazi Esfahani

SPOT-RASTR: A Novel Method To Prepare CRYO-EM Samples

3 - Herschel Chawdhry

Particle Physics and the Quest for High Precision

4 - Kasey Longley

Caring for Grandparent Caregivers: Identifying Support Needs for Older Adults Raising their Grandchildren

5 - Katherine Odegaard

A Matter of Taste: Unveiling the "New" Region in Taste Processing

6 - Li Guo

How Does Overnutrition Lead to Diabetes?

7 - Pearl Rivers Key

Mate Choice Under the Sea: Exploring the Genetic Blueprint of Reproduction in Sea Urchins

8 - Shannon Griffin

Engineering Superconducting Magnets via Structural Simulations

9 - Stephen Yuwono

How Electrons Dance When Things Go Heavy and Fast

10 - Yijiong Yang

Addressing ADRD and COVID-19 Vaccination Hesitancy: Strategies for Enhancing Health Outcomes



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Please join us for refreshments
and award presentations

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PROGRAM END

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