

Seminar

CMWS Centre for Molecular
Water Science

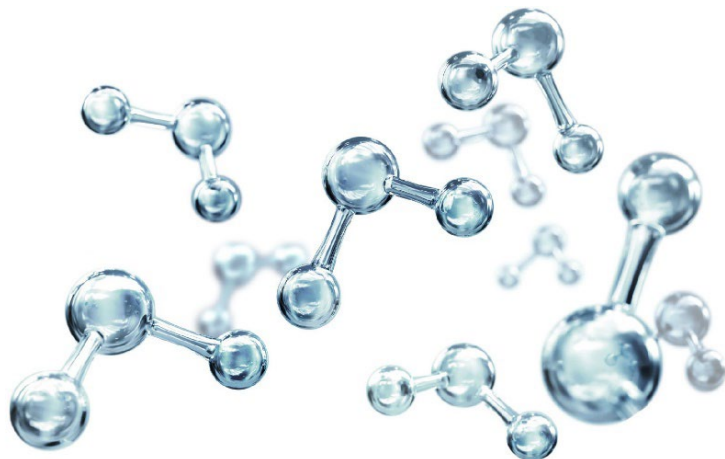
3rd of November 2022
17:00 h

Zoom Virtual Meeting:

<https://tuhh.zoom.us/j/82631283465>

Meeting-ID: 826 3128 3465

Password: 978444



Valeria Molinero

Henry Eyring Center for Theoretical Chemistry, The University of Utah, Salt Lake City, USA

Ice-binding proteins: from ice nucleation to antifreeze

Bacteria, insects and fish that thrive at subfreezing temperatures produce proteins that bind to ice and manage its formation and growth. Ice binding proteins include antifreeze proteins, that stop the formation of ice, and ice-nucleating proteins, that promote it. This presentation will discuss what makes proteins so outstanding at recognizing and binding ice, what distinguishes ice nucleating and antifreeze proteins, and how the size and aggregation of the proteins impact their function and efficiency.