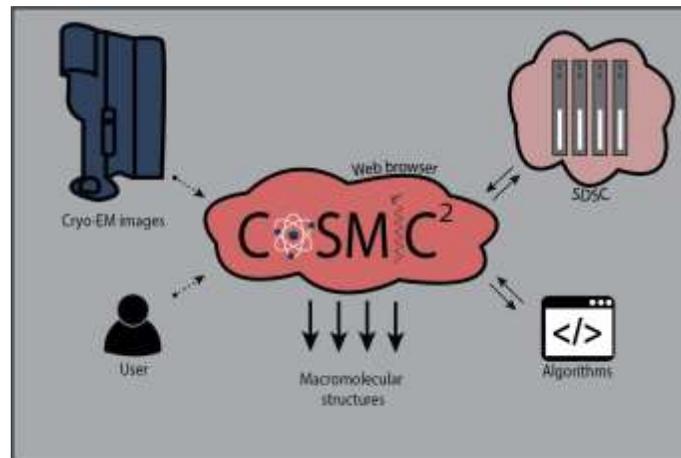




## CryoEM Current Practices Webinar

### *Cloud computing tools for cryoEM*



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**12PM EDT / 9AM PDT Thursday, January 28, 2021**

Single-particle cryoEM has become a go-to technique for structural biologists across a wide range of biological disciplines. Continued investments in national and regional cryoEM instrumentation now provides access for increased numbers of labs. Despite these improvements, access to data processing resources remains a hurdle as users navigate an ever-changing landscape of software and analysis routines. To address this limitation, I have helped to build cloud computing resources on public cloud resources (Amazon Web Services) and an NSF-funded supercomputing center (San Diego Supercomputer Center). In this talk, I will discuss the cloud computing landscape and our recent efforts at building a freely available data processing platform at the San Diego Supercomputer Center via the platform, COSMIC2. By integrating big data moving services alongside cryoEM algorithms for particle stacks and 3D volumes, we facilitate cryoEM job submission to supercomputers without the need of a command line. This gateway lowers the barrier to high-performance computing tools and facilitates the growth of cryo-EM to become a routine tool for structural biology. For more information, please learn more about COSMIC2 by following this URL: [cosmic-cryoem.org](https://cosmic-cryoem.org)

All are welcome to attend. Registration is at no-cost, but sign-up is required:  
[https://us02web.zoom.us/webinar/register/WN\\_IEspnQhGQwao\\_tqm5CFmVQ](https://us02web.zoom.us/webinar/register/WN_IEspnQhGQwao_tqm5CFmVQ)

This webinar series is jointly hosted by the NIH Transformative High Resolution CryoEM Program Service Centers: the National Center for CryoEM Access and Training (NCCAT), the Pacific Northwest Center for CryoEM (PNCC), and the Stanford-SLAC CryoEM Center (S2C2) who provide no-cost access to cryoEM instrumentation and training. In this monthly series, we will highlight cryoEM methods and use the Q&A session after the seminar to stimulate discussion of best practices and interesting challenges that will be helpful to researchers new to the field. Representatives from all three service centers will also be on hand to answer questions about the cryoEM resources available to biomedical researchers and how to access them.