



## Jesus Gerardo Galaz Montoya

Basic Life Research Scientist

Bioengineering

 NIH Biosketch available Online

### Bio

---

#### ACADEMIC APPOINTMENTS

- Basic Life Science Research Associate, Bioengineering

#### PROFESSIONAL EDUCATION

- Ph.D., Baylor College of Medicine , Biochemistry and Molecular Biology (2014)
- Bachelor of Science, Universidad De Sonora (2007)

### Publications

---

#### PUBLICATIONS

- **Multi-scale 3D Cryo-Correlative Microscopy for Vitrified Cells.** *Structure (London, England : 1993)*  
Wu, G. H., Mitchell, P. G., Galaz-Montoya, J. G., Hecksel, C. W., Sontag, E. M., Gangadharan, V. n., Marshman, J. n., Mankus, D. n., Bisher, M. E., Lytton-Jean, A. K., Frydman, J. n., Czymbek, K. n., Chiu, et al  
2020
- **Neutralizing Antibodies Inhibit Chikungunya Virus Budding at the Plasma Membrane** *CELL HOST & MICROBE*  
Jin, J., Galaz-Montoya, J. G., Sherman, M. B., Sun, S. Y., Goldsmith, C. S., O'Toole, E. T., Ackerman, L., Carlson, L., Weaver, S. C., Chiu, W., Simmons, G.  
2018; 24 (3): 417-+
- **Visualizing Adsorption of Cyanophage P-SSP7 onto Marine Prochlorococcus** *SCIENTIFIC REPORTS*  
Murata, K., Zhang, Q., Galaz-Montoya, J. G., Fu, C., Coleman, M. L., Osburne, M. S., Schmid, M. F., Sullivan, M. B., Chisholm, S. W., Chiu, W.  
2017; 7
- **The advent of structural biology in situ by single particle cryo-electron tomography** *Biophysics Reports*  
Galaz-Montoya, J. G., Ludtke, S. J.  
2017; 3 (1): 17-35
- **Chaperonin TRiC/CCT Modulates the Folding and Activity of Leukemogenic Fusion Oncoprotein AML1-ETO.** *The Journal of biological chemistry*  
Roh, S. H., Kasembeli, M. n., Galaz-Montoya, J. G., Trnka, M. n., Lau, W. C., Burlingame, A. n., Chiu, W. n., Tweardy, D. J.  
2016; 291 (9): 4732-41
- **Chaperonin TRiC/CCT Recognizes Fusion Oncoprotein AML1-ETO through Subunit-Specific Interactions.** *Biophysical journal*  
Roh, S. H., Kasembeli, M. M., Galaz-Montoya, J. G., Chiu, W. n., Tweardy, D. J.  
2016; 110 (11): 2377-85
- **Quantifying Variability of Manual Annotation in Cryo-Electron Tomograms.** *Microscopy and microanalysis : the official journal of Microscopy Society of America, Microbeam Analysis Society, Microscopical Society of Canada*  
Hecksel, C. W., Darrow, M. C., Dai, W. n., Galaz-Montoya, J. G., Chin, J. A., Mitchell, P. G., Chen, S. n., Jakana, J. n., Schmid, M. F., Chiu, W. n.  
2016; 22 (3): 487-96

- **Alignment algorithms and per-particle CTF correction for single particle cryo-electron tomography.** *Journal of structural biology*  
Galaz-Montoya, J. G., Hecksel, C. W., Baldwin, P. R., Wang, E. n., Weaver, S. C., Schmid, M. F., Ludtke, S. J., Chiu, W. n.  
2016; 194 (3): 383–94
- **Dimeric Organization of Blood Coagulation Factor VIII bound to Lipid Nanotubes** *SCIENTIFIC REPORTS*  
Dalm, D., Galaz-Montoya, J. G., Miller, J. L., Grushin, K., Villalobos, A., Koyfman, A. Y., Schmid, M. F., Stoilova-McPhie, S.  
2015; 5: 11212
- **Single particle tomography in EMAN2** *JOURNAL OF STRUCTURAL BIOLOGY*  
Galaz-Montoya, J. G., Flanagan, J., Schmid, M. F., Ludtke, S. J.  
2015; 190 (3): 279–90
- **Structural Mechanisms of Mutant Huntingtin Aggregation Suppression by the Synthetic Chaperonin-like CCT5 Complex Explained by Cryoelectron Tomography.** *The Journal of biological chemistry*  
Darrow, M. C., Sergeeva, O. A., Isas, J. M., Galaz-Montoya, J. G., King, J. A., Langen, R. n., Schmid, M. F., Chiu, W. n.  
2015; 290 (28): 17451–61
- **TRiC's tricks inhibit huntingtin aggregation** *ELIFE*  
Shahmoradian, S. H., Galaz-Montoya, J. G., Schmid, M. F., Cong, Y., Ma, B., Spiess, C., Frydman, J., Ludtke, S. J., Chiu, W.  
2013; 2
- **Interfacial behavior of N-nitrosodiethylamine/bovine serum albumin complexes at the air-water and the chloroform-water interfaces by axisymmetric drop tensiometry** *JOURNAL OF PHYSICAL CHEMISTRY B*  
Juarez, J., Galaz, J. G., Machi, L., Burboa, M., Gutierrez-Millan, L. E., Goycoolea, F. M., Valdez, M. A.  
2007; 111 (10): 2727–35