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ACADEMIC APPOINTMENTS

- Assistant Director, Cryo-Electron Microscopy, Sarafan ChEM-H

Publications

PUBLICATIONS

- **Human interferon-α autoantibody development broadens reactivity and enables functional synergy.** *Immunity*
  Groen, K., Moritz, J. A., Vasquez, S., Rubio, A. A., Kuratli, R., Jones, D., Grafl, D., Motta, M., Fontana, S., Manning, J., Costagli, S., Simonelli, L., Thakur, et al
  2026

- **Developmental and molecular features shaping broad and synergistic actions of human autoantibodies targeting IFNα.** *bioRxiv : the preprint server for biology*
  Groen, K., Moritz, J. A., Vasquez, S., Rubio, A. A., Kuratli, R., Jones, D., Grafl, D., Motta, M., Fontana, S., Manning, J., Costagli, S., Simonelli, L., Thakur, et al
  2026

- **Identifying key interactions of monoclonal antibodies that target the HuCoV-HKU1 spike using cryo-EM**
  Vasquez, S., Wang, L., Joseph, J., Wrapp, D., Eso, M. R., Kong, W., Corbett-Helaire, K. S., Barnes, C. O.
  CELL PRESS.2026

- **Oriented Multivalent Display Drives Consistent Serum Immunodominance to the Ebola Virus Glycoprotein.** *ACS central science*
  Zheng, C., Rubio, A. A., Vasquez, S., Pham, D., Pan, Z., Barnes, C. O., Kim, P. S.
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- **Oriented Multivalent Display Drives Consistent Serum Immunodominance to the Ebola Virus Glycoprotein** *ACS CENTRAL SCIENCE*
  Zheng, C., Rubio, A. A., Vasquez, S., Pham, D., Pan, Z., Barnes, C. O., Kim, P. S.
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- **Human Coronavirus HKU1 Neutralizing Monoclonal Antibodies Target Diverse Epitopes Within and Around the TMPRSS2 Receptor Binding Site.** *bioRxiv : the preprint server for biology*
  Wang, L., Joseph, J., Vasquez, S., Wrapp, D., Sheahan, T. P., Dzuvor, C. K., Rosen, O., Kirchdoerfer, R. N., Abiona, O. M., Hammond, C., Shi, W., Moak, S. P., Kong, et al
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- **Structural investigations of the cytosolic iron-sulfur cluster assembly pathway late acting proteins**
  Vasquez, S., Marquez, M. M., Buzuk, A., Drennan, C. L., Perlstein, D. L.
  CELL PRESS.2024: 446A

- **Structural and biochemical investigations of a HEAT-repeat protein involved in the cytosolic iron-sulfur cluster assembly pathway** *COMMUNICATIONS BIOLOGY*
  Vasquez, S., Marquez, M. D., Brignole, E. J., Vo, A., Kong, S., Park, C., Perlstein, D. L., Drennan, C. L.

2023; 6 (1): 1276

- **Importance of Loop L1 Dynamics for Substrate Capture and Catalysis in Pseudomonas aeruginosa D-Arginine Dehydrogenase** *BIOCHEMISTRY*
  Ouedraogo, D., Souffrant, M., Vasquez, S., Hamelberg, D., Gadda, G.
  2017; 56 (19): 2477-2487