

## ***RNA structural Biology***

The Protein-Nucleic Acid Interaction Section (PNAI), the Structural Biophysics Laboratory (SBL) of National Cancer Institute (NCI), National Institutes of Health (NIH), seeks a **postdoctoral candidate** with training/expertise in RNA structural biology/biochemistry or/and macromolecular X-ray crystallography. The candidate should have expertise and research experience in the structural biology or/and biochemistry of RNA or proteins, which includes: 1) Sample preparation and crystallization techniques, 2) Theory and practice of X-ray diffraction methods, and processing crystallographic data, and 3) Structure determination, analysis, and refinement. Experience with RNA or RNA:protein complexes is preferred. Applicants are expected to have a strong background in physical chemistry and/or physics with excellent analytical and computational skills. The ideal candidates should have a number of years of research experience in the relevant fields with strong problem-solving skills, be willing to work cooperatively with teams of structural biologists and biologists, and be self-motivated to conduct research independently.

The PNAI section operates a high-end in-house diffractometer and small angle X-ray scattering core facility, with regular access to synchrotron beamlines at the Argonne National Laboratory. We are well equipped with two crystallization robots, as well as a Rock Imager for efficient crystal detection, which includes UV-absorption, UV-fluorescence, and SONICC imaging. In addition, the SBL Biophysics Core Facility contains an array of instruments for biophysical characterization of solution and crystalline samples.

The PNAI section is currently at the forefront of developing, exciting, state-of-the-art technologies and methods for biomacromolecule structure determination. We apply X-ray free electron laser and serial femtosecond crystallography, micro electron diffraction, together with traditional X-ray crystallography to study the structure and dynamics of challenging RNA molecules of great biological significance. We are looking for an enthusiastic, talented and dedicated scientist to join our exciting research team. Salary is commensurate with experience and achievements. Interested applicants should send their applications via email to **Yun-Xing Wang, Ph.D.**: [wangyunx@mail.nih.gov](mailto:wangyunx@mail.nih.gov) (301-846-5985). More information about PNAI can be found at: <https://ccr.cancer.gov/Structural-Biophysics-Laboratory/yun-xing-wang>

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