

Annual Report of the Synchrotron Radiation Protein Crystallography Facility

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Abstract

Synchrotron Radiation Protein Crystallography Facility (SPXF) is an excellent national core facility in Taiwan that helps local users conducting state-of-the-art research in biomedical field from structural biology to drug design. Since the opening of our core facility in 2006, the number of our user groups, as well as the quantity and quality of papers published by our users, increases steadily. Currently, there are 50 domestic and 15 international active user groups. The international ones are from Singapore, Thailand, Hong Kong, China, Japan and South Korea. This core facility is built by National Synchrotron Radiation Research Center (NSRRC), one of a few research institutes in Taiwan having the capability of building and managing large scientific facilities. Currently, three tunable beamlines and one fixed-energy beamline have been provided to users. In addition, one micro-focus protein crystallography beamline is now under commissioning. To effectively increase the efficiency of beam time usage and success rate of experiment for users, 12 members of user support team are assembled and trained to provide on-site user support. Beamline automation and remote access functions are also available to help users reduce their cost of the experiment. Detailed performance of SPXF will be reported in the meeting:

Keywords - Synchrotron Radiation, Protein Crystallography, Structural Biology, Drug Design, Biomedical Research.