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# Macromolecular Crystallography With Synchrotron Radiation

**MACROMOLECULAR CRYSTALLOGRAPHY WITH SYNCHROTRON RADIATION** - *Macromolecular Crystallography With Synchrotron Radiation (FREE)* In particle accelerators the beamline is usually housed in a tunnel and/or underground, cased inside a concrete housing for shielding purposes. The beamline is usually a cylindrical metal pipe, typically called a beam pipe, and/or a drift tube, evacuated to a high vacuum so there are few gas molecules in the path for the beam of accelerated particles to hit, which otherwise could scatter them ... - Sun, 14 Apr 2019 16:34:00 GMT X-ray crystallography - Wikipedia A small-molecule fusion inhibitor of influenza virus is ... Accelerating pharmaceutical structure-guided drug design ... An area of significant innovation has been the development of detectors for use at synchrotron beamlines. Starting during the 1990s, the detector of choice was the charge-coupled device (CCD) area X-ray detectors, which were deployed at synchrotron beamlines for protein crystallography. Structure of the Angiotensin Receptor Revealed by Serial ... Angiotensin II type 1 receptor (AT 1 R) is a G protein-coupled receptor that serves as a primary regulator for blood pressure maintenance. Although several anti-hypertensive drugs have been developed as AT 1 R blockers (ARBs), the structural basis for AT 1 R ligand-binding and regulation has remained elusive, mostly due to the difficulties of growing high-quality crystals for structure ... DNA-Directed Assembly of Gold Nanohalo for Quantitative ... Plasmonic imaging under a dark-field microscope (DFM) holds great promise for single-particle analysis in bioimaging, nanophotonics, and nanocatalysis. Here, we designed a DNA-directed programmable assembly strategy to fabricate a halo-like Au nanostructure (nanohalo) that couples plasmonic large gold nanoparticles (L-AuNPs) with catalytically active small AuNPs (S-AuNPs) in a single ... XDS – a practical view - Crystallography and Structural ... How to use XDS? Prepare a single input file XDS.INP with parameters describing data reduction XDS.INP often written by beamline software Parameters and their keywords have the form e.g. DETECTOR\_DISTANCE= 120. There are about 30 relevant parameters, but only about 15 are required (and may change between projects). Structural basis for perception of diverse chemical ... The taste receptor type 1 (T1r) family perceives 'palatable' tastes. These receptors function as T1r2-T1r3 and T1r1-T1r3 heterodimers to recognize a wide array of sweet and umami (savory ... Chemical Management for Colorful, Efficient, and Stable ... Chemically tuned inorganic–organic hybrid materials, based on  $\text{CH}_3\text{NH}_3(\text{MA})\text{Pb}(\text{I}_{1-x}\text{Br}_x)_3$  perovskites, have been studied using UV–vis absorption and X-ray diffraction patterns and applied to nanostructured solar cells. The band gap engineering brought about by the chemical management of  $\text{MAPb}(\text{I}_{1-x}\text{Br}_x)_3$  perovskites can be controllably tuned to cover almost the entire visible spectrum ... Computational design of trimeric influenza-neutralizing ... Many viral surface glycoproteins and cell surface receptors are homo-oligomers 1,2,3,4, and thus can potentially be targeted by geometrically matched homo-oligomers that engage all subunits ...

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