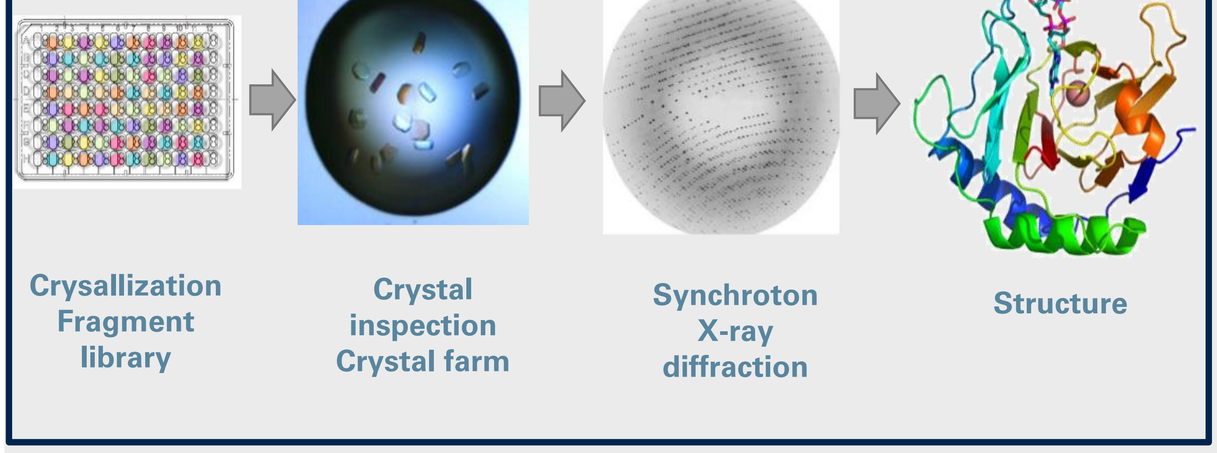
ALBA Synchrotron: A Cutting-Edge Resource for Pharmaceutical Companies

ALBA Synchrotron enables high-resolution visualization of the atomic structure of matter and in-depth analysis of its properties, **particularly appropriate for the pharmaceutical sector**

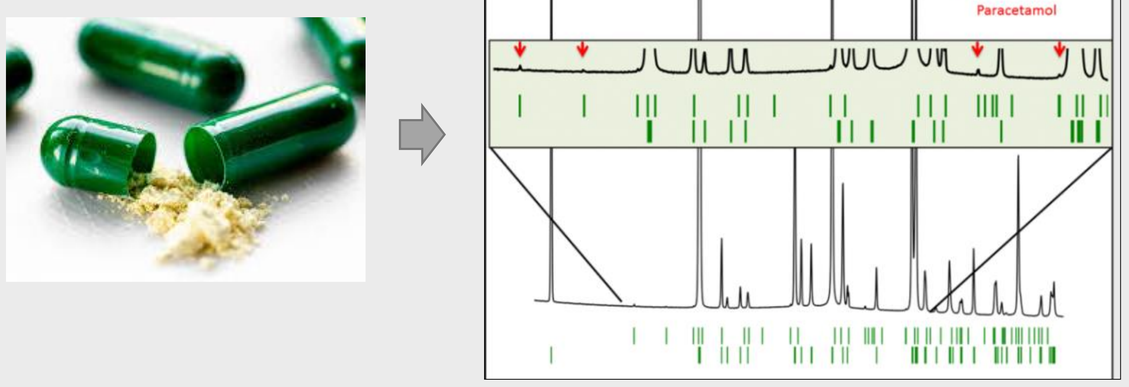
DRUG DISCOVERY

X-ray crystallography and cryo-EM enable **atomic visualization of macromolecular** structures, such as antibodies, protein-protein and protein-drug complexes. It accelerates the **drug design** process.



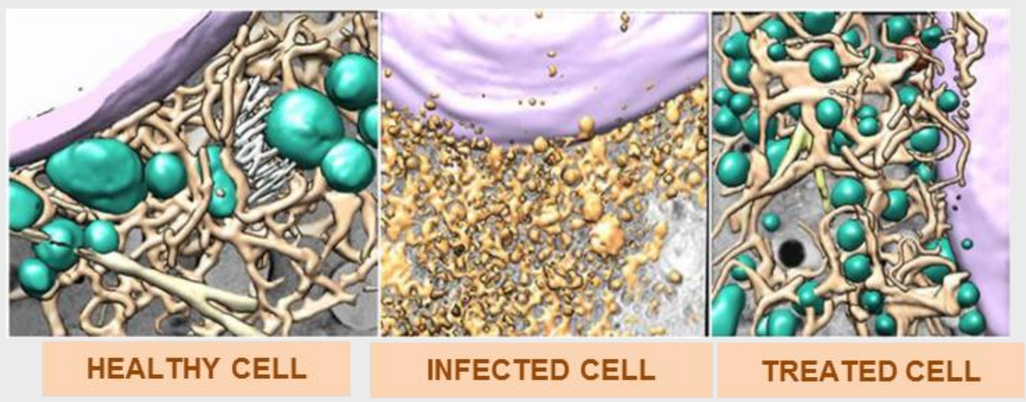
DRUG DEVELOPMENT

Synchrotron X-ray powder diffraction gives information of **crystallinity, polymorphism** of APIs and formulations providing **low detection limits** and **high peak resolution.**



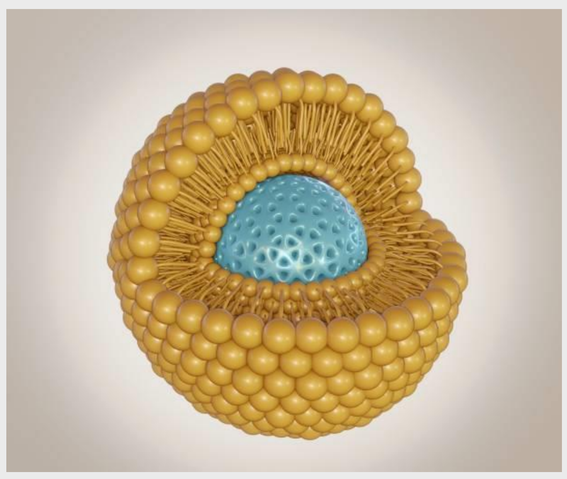
DRUG EFFICACY

Soft X-ray cryo-tomography provides a novel approach for studying the **architecture of cells in near-native state** at medium resolution (50-60 nm). It allows the assessment of the **potential effect of drug** on the cell structure.



DRUG DELIVERY

Small-Angle X-ray Scattering (SAXS) analyzes the size, shape, and internal structure of nanoparticles, liposomes, including **drug delivery systems**. **Time resolved measurements** are possible (pH, temperature…).



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