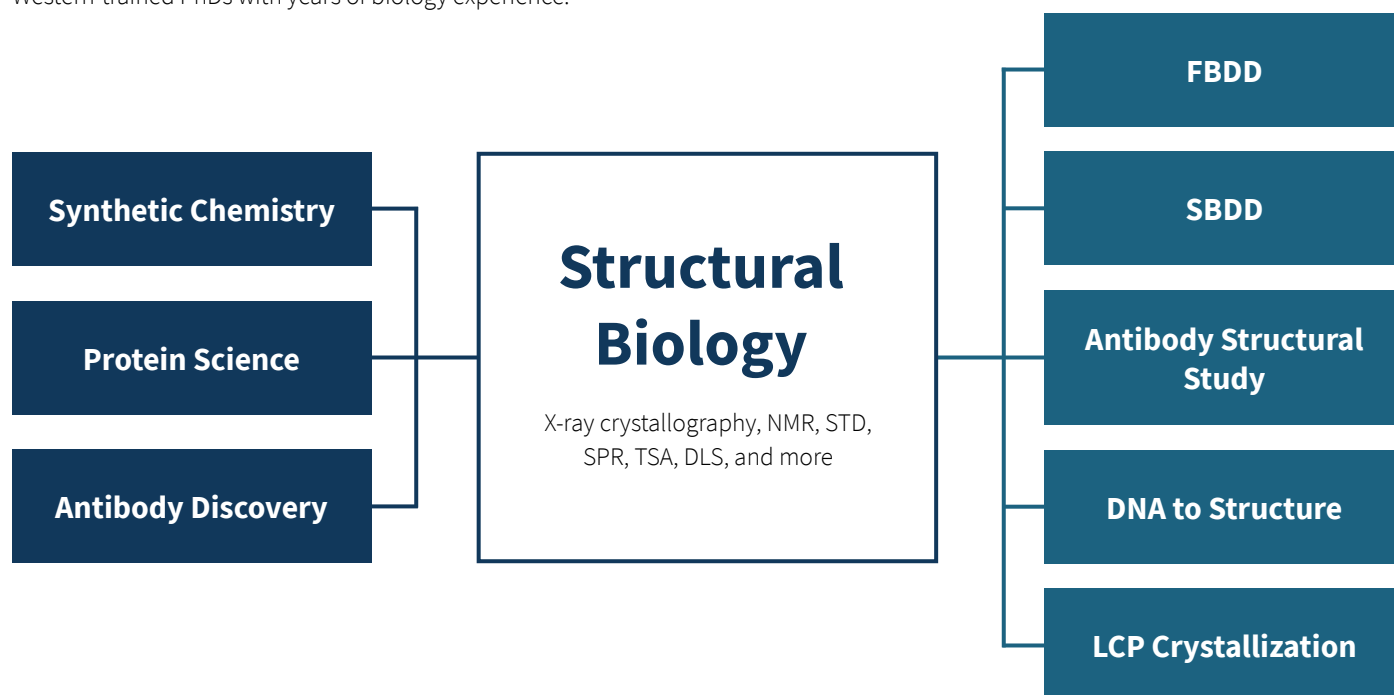


STRUCTURAL BIOLOGY

Scientific Expertise

The Structural Biology group at ChemPartner is equipped with state-of-the-art technology, such as X-ray crystallography, STD, NMR, SPR, TSA, DLS, and more.

This elite team is predominantly made up of scientists with masters degrees and led by Western-trained PhDs with years of biology experience.



CASE STUDY: FBDD Project

	PROTEIN 1	PROTEIN 2
Fragments Received	140 (17 batches)	18
Crystals Screened	982	78
Datasets Collected	221	19
Structures Delivered	77	15
Turnaround (best batch/overall)	15/30 days	15/15 days
Average Success Rate	55%	93.3%

- Regular and easy access to Shanghai Synchrotron Radiation Facility (SSRF)
- High quality structural data
- Fast and steady turnaround

CASE STUDY: Ab-Antigen Complex Structural Study

Crystal structure of antibody and antibody-antigen complex

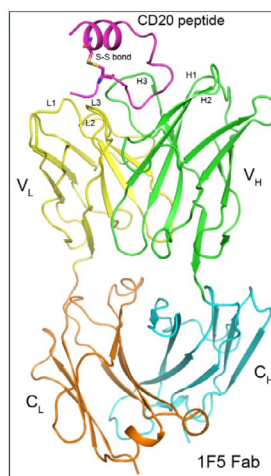
- In-house developed Ab-specific screening kits
- Structural Modeling

Model based humanization design

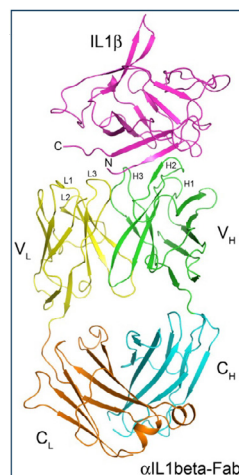
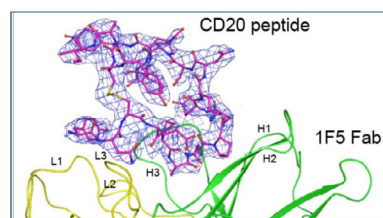
- Antigen modeling
- Epitope prediction

Bioinformatics Platform

- Stability prediction
- Immunogenicity prediction



DIFFRACTION DATA STATISTICS	
Space group	P2 ₁ 2 ₁ 2 ₁
Unit cell (Å)	a=86.76 b=164.06 c=296.38
Resolution (Å)	50.00-2.95 (3.00-2.95)
Completeness (%)	16.3 (41.9)
Rmerge (%)	6.159E-11
I/s<I>	6.0 (1.8)
Redundancy	3.8 (2.4)



DIFFRACTION DATA STATISTICS	
Space group	I 4122
Unit cell (Å)	a=98.632 b=98.632 c=377.541
Resolution (Å)	50.00-2.75 (2.82-2.75)
Completeness (%)	95.7 (80.0)
Rmerge (%)	18.9 (45.7)
I/s<I>	9.6 (1.85)
Redundancy	7.7 (2.6)

