What is necessary about the structural properties of a SBDD target?

 Homology models less trustworthy can still be useful, perhaps to guide structure determination Experimental structures/homology models can be refined by molecular dynamics simulation

High-resolution structure available

Resolution of < 2.5 Å [1]

Unique structural motifs, favoring specificity

 cavities or pockets comparing physicochemical and geometric properties of pocket with known druggable targets as a caveat, concept is about history and does not account for innovation

"Druggable"

structure-based

precedence - previously targeted

[1] Anderson, A. C. The Process of Structure-Based Drug Design. Chemistry & Biology 2003, 10 (9), 787–797. https://doi.org/10.1016/j.chembiol.2003.09.002.

What is necessary about the structural properties of a SBDD target?

- High-resolution structure available
 - Resolution of < 2.5 Å [1]
 - Homology models less trustworthy
 - can still be useful, perhaps to guide structure determination
 - Experimental structures/homology models can be refined by molecular dynamics simulation
- Unique structural motifs, favoring specificity
- "Druggable"
 - precedence previously targeted
 - structure-based
 - cavities or pockets
 - comparing physicochemical and geometric properties of pocket with known druggable targets
 - as a caveat, concept is about history and does not account for innovation

What is desirable about the structural properties of a SBDD target?