



Contribution ID: 201

Type: **Talk**

Direct interaction of a chaperone-bound type three secretion substrate with the export gate

Wednesday, 16 March 2022 09:20 (20 minutes)

Type III secretion systems (T3SS) are bacterial molecular assemblies employed to inject effector proteins in host cells. We present the structure of a T3S export gate with a substrate:chaperone complex. Following a divide-and-conquer strategy, we first determined the structure of the previously uncharacterized substrate:chaperone complex at higher resolution. Our ternary complex marks the first instance where the substrate directly binds to the export gate instead of mediation by the chaperone.

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Session Classification: Biocrystallography: Signalling and Macromolecular Complexes

Track Classification: Main conference: Biologic Structure, Function, Reactivity, and Regulation