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Structural biology of type VII secretion machines

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Type VII secretion systems export proteins across the mycobacterial cell envelope into the extracellular environment. While it is still unknown how proteins cross the highly impermeable outer mycobacterial membrane, our recent cryo-EM structure has provided insights into the architecture of the base of this system- the part spanning the cytoplasmic membrane. In this presentation, this structural model, its mechanistic implications and possible transport models will be discussed.

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