

Chapter 3

General

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Active transport

ATP-binding cassette (ABC) pathway

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Tripartite ATP-independent periplasmic (TRAP) transporters

Group translocation

Iron uptake and siderophores

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TonB-dependent active transport across the outer membrane in Gram-negative bacteria

Multidrug efflux pump

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Protein translocation

General secretion pathway (GSP)

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Twin-arginine translocation (TAT) pathway

Protein translocation through the ABC pathway

Revilla-Guarinos, A. *et al.* (2020). ABC transporter DerAB of *Lactobacillus casei* mediates resistance against insect-derived defensins. *Applied & Environmental Microbiology* **86**(14), e00818-20. <https://aem.asm.org/content/aem/86/14/e00818-20.full.pdf>

Protein translocation through the cell wall in Gram-positive bacteria

Protein translocation in Gram-negative bacteria

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Type VI secretion system

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Type VII secretion system

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Export of polysaccharides and components of surface structures

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Protein secretion in Archaea

Metallochaperones

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