

## 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**

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

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### **Multidrug efflux pump**

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### **Protein translocation**

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### **Twin-arginine translocation (TAT) pathway**

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### **Protein translocation through the ABC pathway**

### **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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