



Gut Microbiota and OMVs: Unveiling Novel Regulatory Mechanisms in High-Altitude Myocardial Injury

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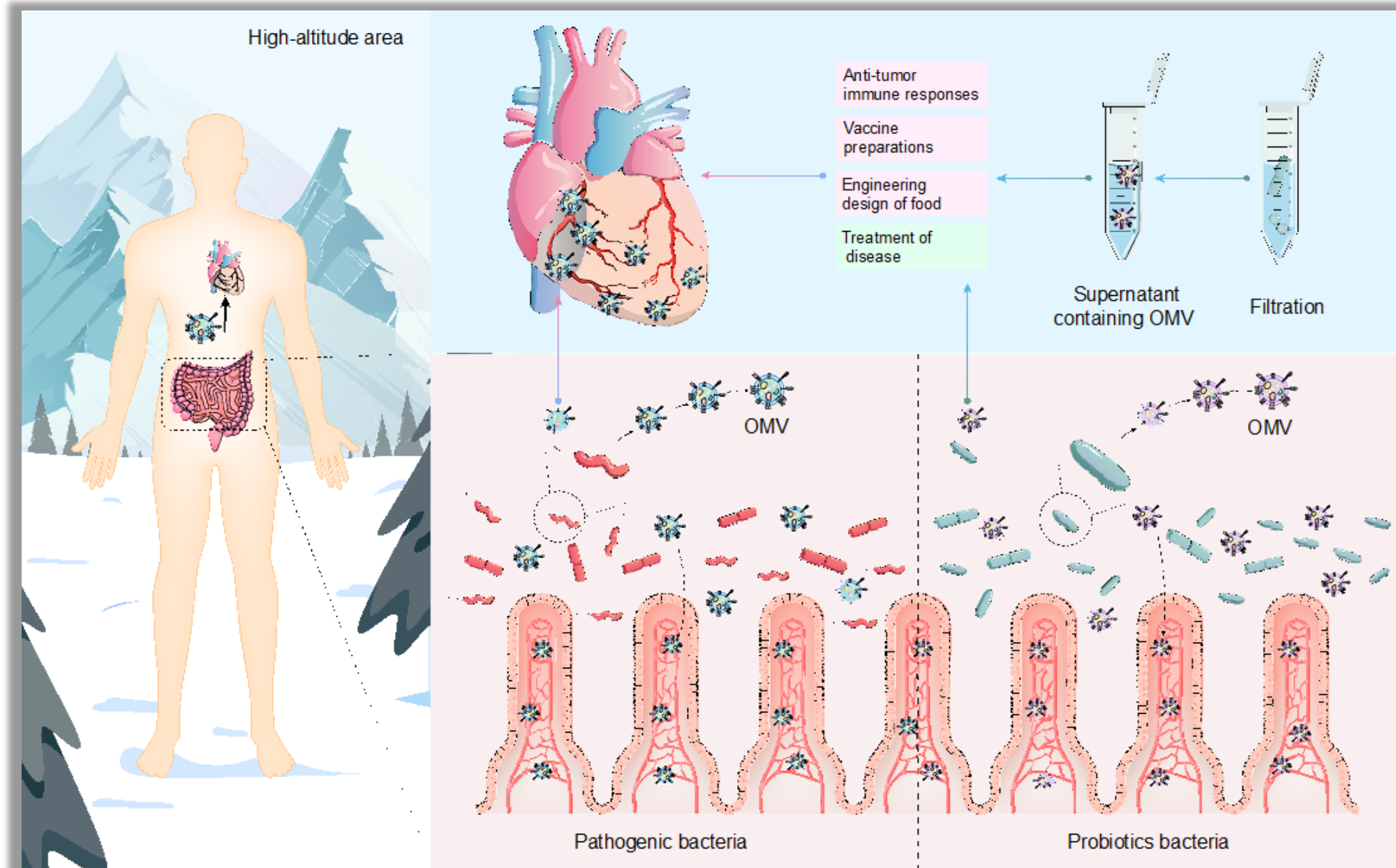
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Highlight





Clinical Medications for Hypertrophic Cardiomyopathy

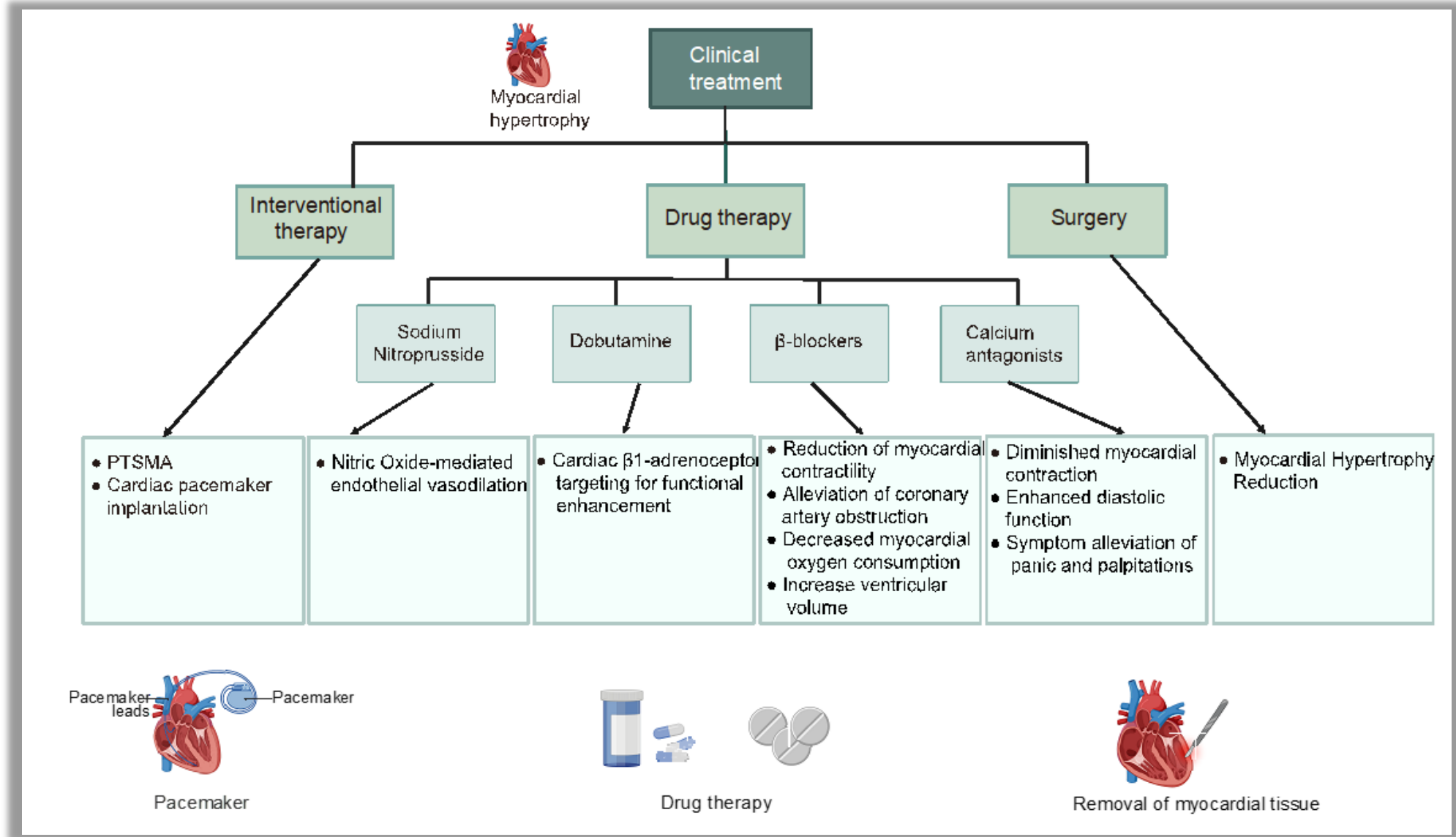


Figure 1: Treatment approaches for high-altitude myocardial injury in clinical practice



The role of gut microbiota in high-altitude environments

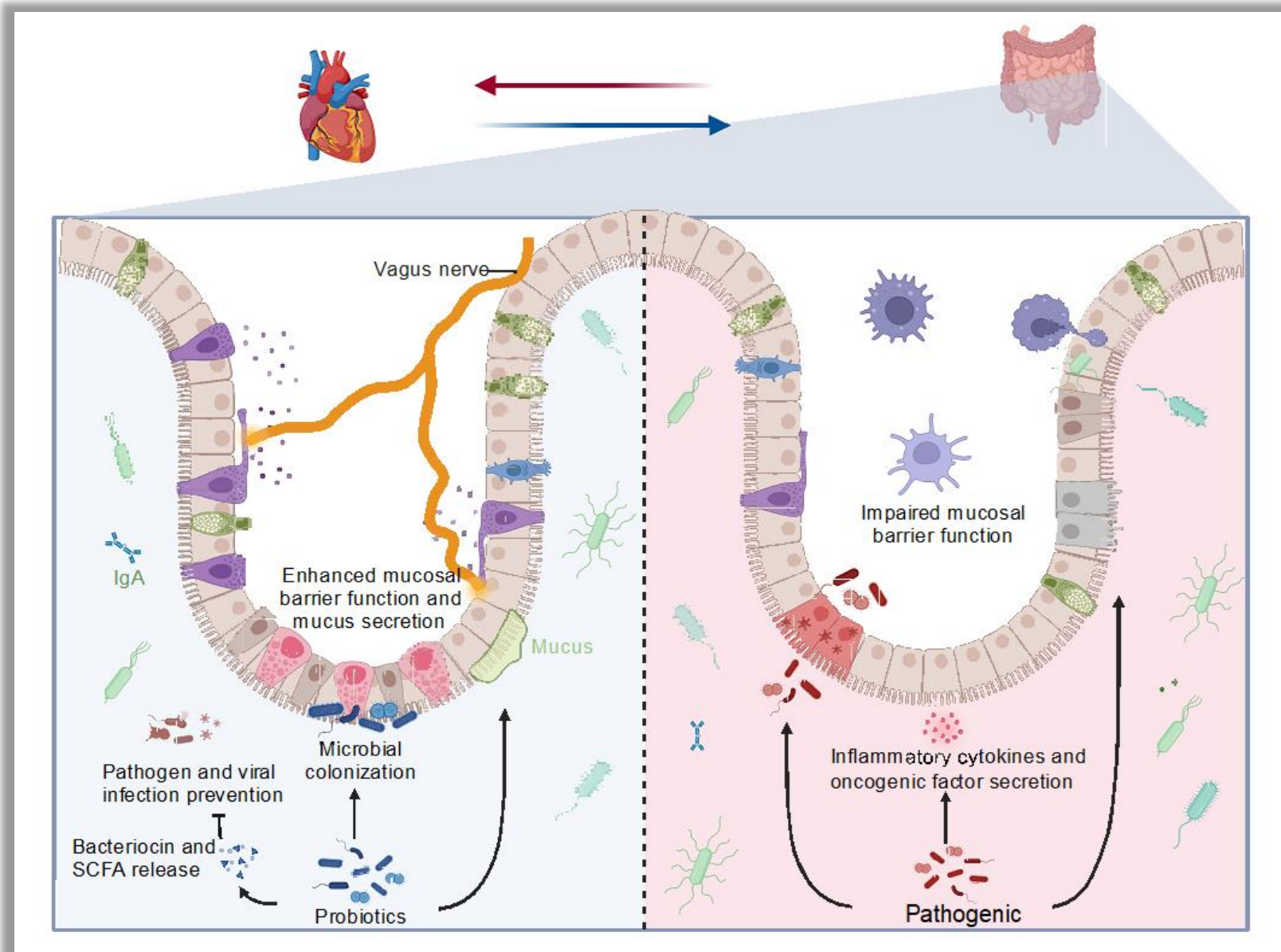


Figure 2: The role of the gut microbiota in high-altitude areas



The formation of outer membrane vesicles

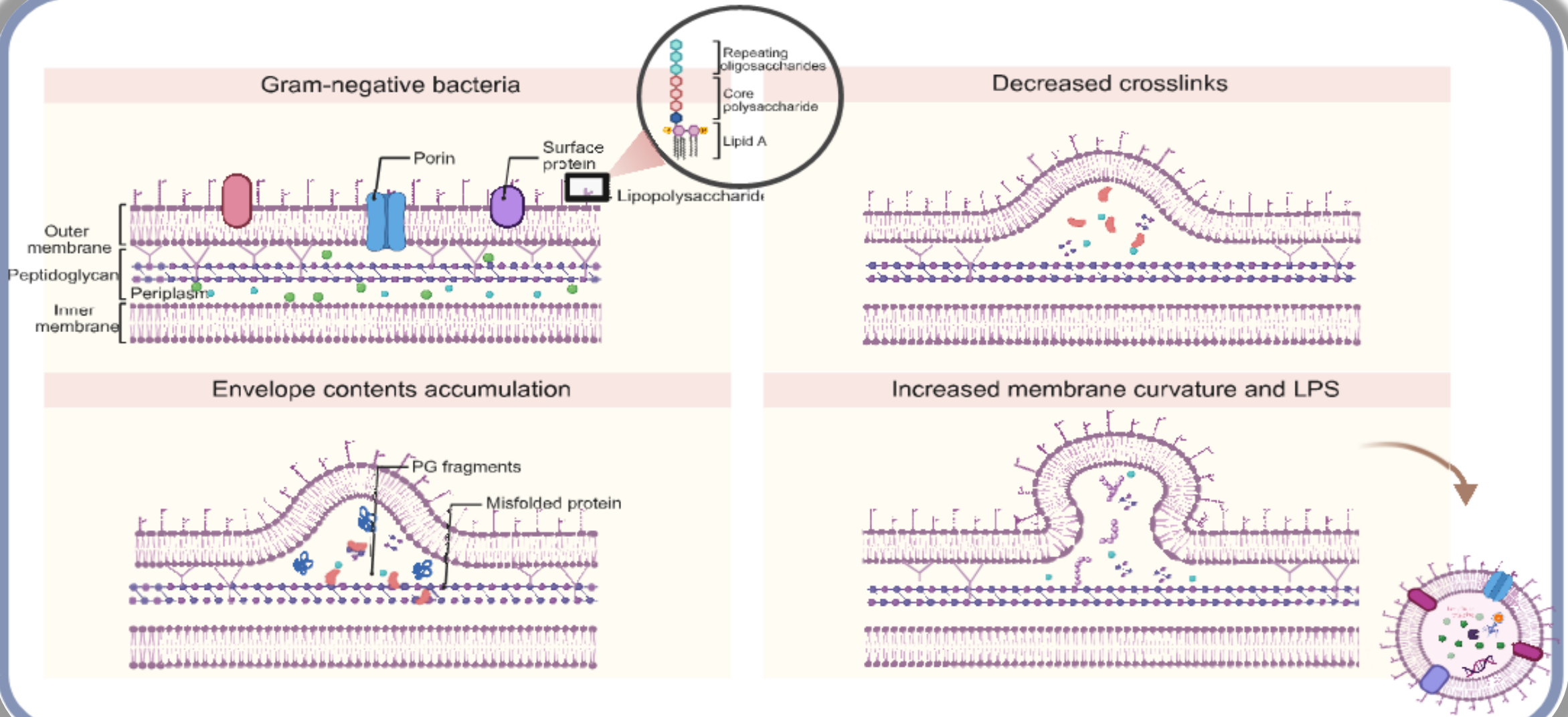


Figure S1. Mechanisms of outer membrane vesicles formation in gram-negative bacteria



The functional characteristics of outer membrane vesicles

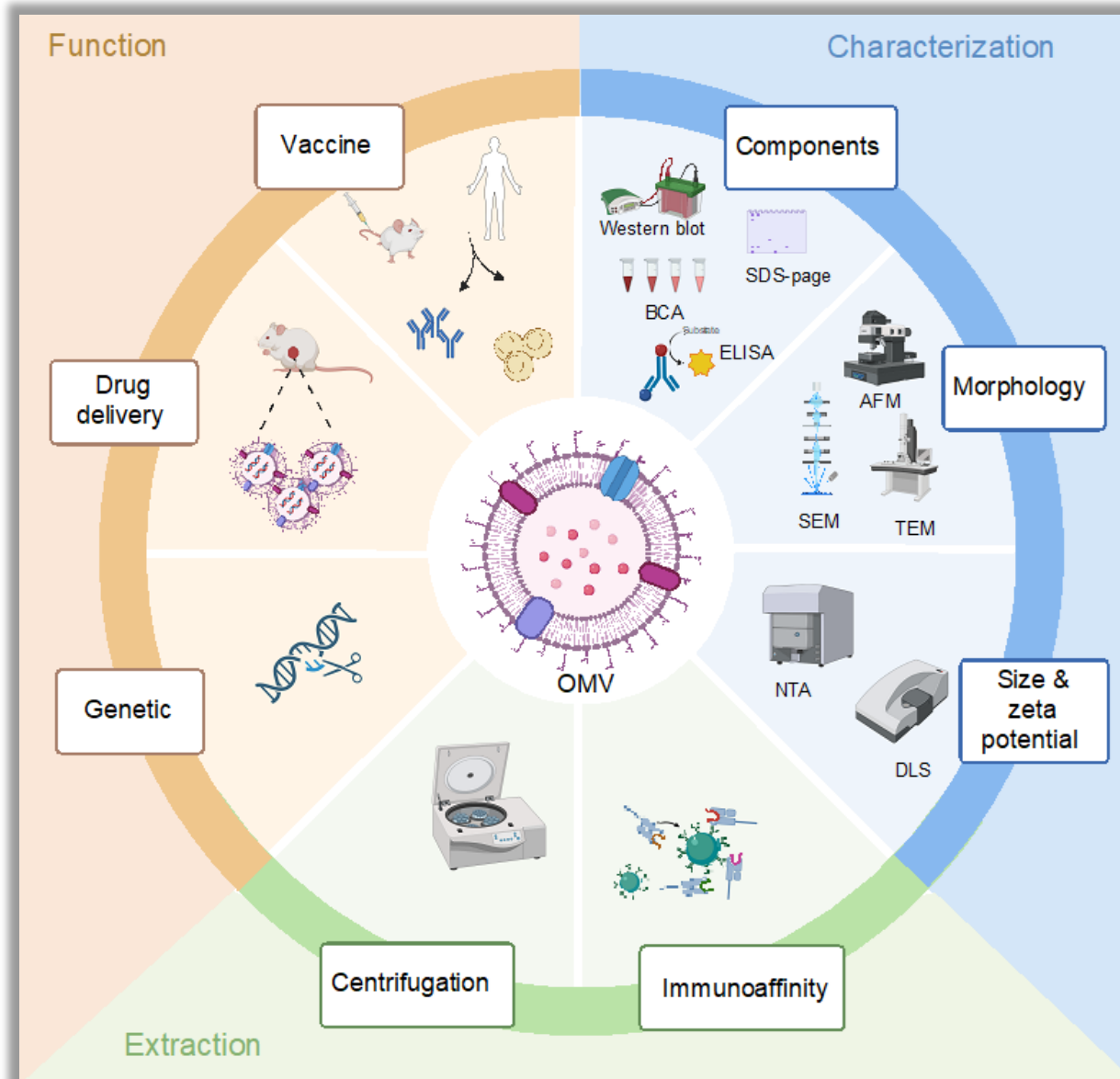


Figure S2. Extraction, separation and function of outer membrane vesicles



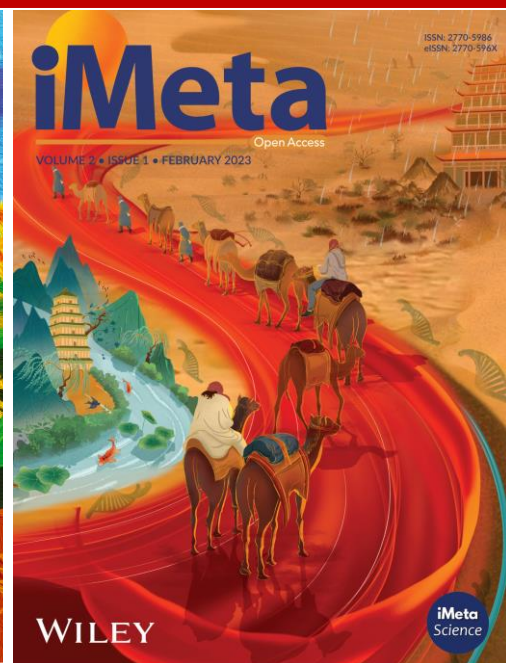
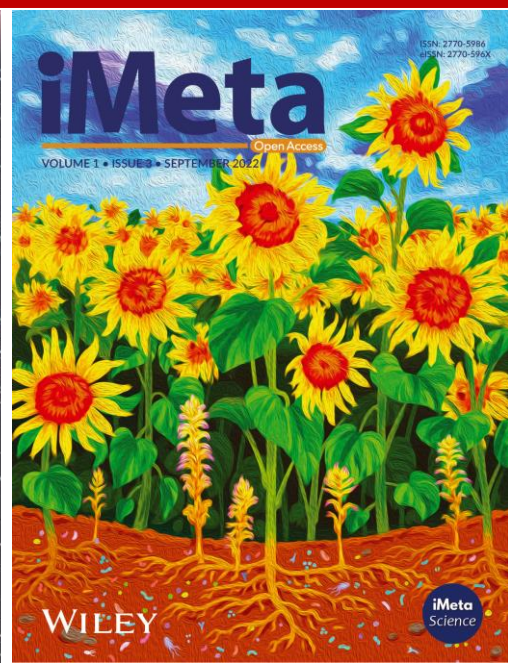
Summary

- ❑ In this study, we have discovered that outer membrane vesicles secreted by the gut microbiota represent a novel target for high-altitude myocardial injury.
- ❑ Currently, the mechanisms of formation and pathogenicity of outer membrane vesicles have not yet been fully elucidated. We will continue to explore their pathogenic targets in myocardial injury.
- ❑ Develop new targeted therapies for myocardial injury based on the drug delivery characteristics of outer membrane vesicles.
- ❑ Provide new approaches to improve the health level of people in high-altitude areas.

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