

**Dipartimento di Biotecnologie e Bioscienze – UNIMIB**

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# **Modulation of the intestinal immune responses by the microbiota**

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**Abstract:** The mucosae are the site of potential entry of pathogens and they are safeguarded by the mucosal immune system, functionally deputed to distinguish among what is self (to protect) from what is non-self (to eliminate). Tissue homeostasis is thus achieved through the balance of immune cells, epithelium and the vast community of microorganisms colonizing mucosal tissues. However, the mechanisms that regulate the dialogue between the immune system and the microbiota are not yet fully known. Thanks to the use of ex vivo, in vitro and in vivo systems and through the manipulation of the microbiota we aim at providing the missing knowledge to understand how these complex systems interact and to intervene by personalized microbiota-mediated treatments in those pathological conditions where immune system-microbiota interactions are altered.

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