

Dipartimento di Biotecnologie e Bioscienze – UNIMIB

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Notch signaling and control of Regulatory T cell function in tissue inflammation

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Chronic tissue inflammatory diseases, triggered by pathogens or in the context of autoimmune and degenerative diseases, represent a huge medical and societal burden. Initiation and persistence of these diseases can be due to subversion of T regulatory cell (Treg) function, due to disease-associated mechanisms dysregulating regulatory function of Treg that could be targeted to develop effective therapies. I will present the critical role of TR cell-intrinsic Notch signaling in licensing tissue inflammation in viral and autoimmune diseases, showing that individual receptors direct Treg responses depending on the inflammatory triggers so promoting inflammation in a tissue-specific manner.

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