



ISTITUTO PASTEUR ITALIA

FONDAZIONE CENCI BOLOGNETTI

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**SSAS, Building D
Auditorium 101**

Immune regulation of CCR7⁺ dendritic cells in tumors

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Abstract

Dendritic cells (DC) are central orchestrators of immune responses in solid tumors. Among them, tumor-resident CCR7-expressing DC located in perivascular niches of the tumor stroma are pivotal in licensing incoming T cells to perform antitumor functions. Accordingly, their presence has been linked to improved survival rates and immunotherapy responses in cancer patients. Given the critical role of intratumoral CCR7⁺ DC in shaping antitumor immunity, we aimed to uncover fundamental mechanisms governing their spatial positioning and functional regulation. The results highlight key factors involved in the establishment and modulation of intratumoral CCR7⁺ DC and provide potential avenues for optimizing immunotherapeutic strategies.