



Les Séminaires de l'IPBS

*Auditorium Fernand Gallais (bât. LCC)
Campus CNRS, 205 route de Narbonne - TOULOUSE*

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Jeudi 5 mars 2009 à 11 h.

“Innate Myeloid Derived Suppressor Cells counterbalanced by neutrophils are recruited in skin early after Mycobacterium bovis/ BCG vaccination to exert NO-mediated T-cell dampening”

Monocyte recruitment and impact on /Mycobacterium bovis/ BCG vaccination is still unknown. Here we describe a balance establishing between inflammatory and suppressive cells during early stages of BCG dermal vaccination. Indeed, a small population of suppressive myeloid cells counterbalances the massive recruitment of inflammatory neutrophils in the site of BCG injection. This myeloid cell subset shows a similar phenotype and function observed in myeloid derived suppressor cells (MDSC) accumulating lymphoid organs in tumor-bearing mice. They are able to suppress T cell responses in vitro and in vivo through nitric oxide production and their recruitment is dependent on MyD88 and BCG specific signals.

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