

COLLOQUIA IN PHYSIOLOGY AND VASCULAR BIOLOGY

Venue: Medical University Vienna, Center for Physiology and Pharmacology, Institute of Pharmacology, Währingerstraße 13a, 1090 Vienna, "**Leseraum**"
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Bart Everts (host: G. Schabbauer)

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"Metabolic control of dendritic cell-driven immune polarization"

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Abstract:

DCs are key regulators of both immunity and tolerance by controlling activation and polarization of effector T cells and regulatory T cell responses. Only recently it has become clear that changes in immune cell activation and function are coupled to and underpinned by profound changes in cellular metabolism. Nonetheless, still relatively little is known about the metabolic processes that support DC activation or about the metabolic requirements for DCs to drive different effector T cell or Treg responses. I will discuss our recent in vitro and in vivo observations regarding the metabolic requirements for DCs to prime and polarize T cell responses.