

CONFÉRENCE

Dr Cheolho Cheong

Directeur

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Harnessing Dendritic Cells for Human Diseases

My Laboratory studies the biology of dendritic cells and translational research directed toward better vaccines to cure infectious diseases, autoimmunity, and tumor. My short-term interests focus on understanding the new class of dendritic cells originated from monocytes upon microbial infections: their generation, functions, and differential capacity to handle antigens in the setting of non-sterile inflammation (atherosclerosis, autoimmunity, and cancer) and sterile inflammation (microbial infection). We have devoted much effort to understanding the role of c-type lectin receptors (pattern recognition receptors) on immune cells, especially dendritic cells and macrophages and we are actively involved in efforts to develop therapeutic antibodies, transgenic mice and reagents to contribute immunology field.

Using these reagents, we have been able to elucidate the *in vivo* pathway generating monocyte-derived dendritic cells. To extend our knowledge on monocyte-derived dendritic cells, I am also developing new genetic reagents (reporter mice marking these cells fluorescently and deleter mice with diphtheria toxin). In addition, I utilize SCID-hu mice models to recapitulate human immune system and study human DC subsets. These experimental models will facilitate development of therapeutics in human harnessing dendritic cells.

Vendredi 8 février 2013 à 11 h 30
Pavillon Claire McNicoll, salle Z-260

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