

NAME, QUALIFICATIONS AND CONTACT DETAILS

Nicolas Degauque, PhD

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EDUCATION AND EMPLOYMENT

- 10/14 to Pres CRTI INSERM1064 (Nantes, France). Position: Researcher CR1
10/10 to 09/14 CRTI INSERM1064 (Nantes, France). Position: Researcher CR2
01/08 to 10/10 INSERM643 (Nantes, France). Training: Senior Postdoctoral Fellow (Mentor Jean-Paul Souillou)
02/05 to 12/07 BIDMC, Harvard Medical School (Boston, USA). Training: Postdoctoral Fellow (Mentor Terry B Strom)
10/01 to 12/04 INSERM437 (Nantes, France). Training: PhD (Mentor Jean-Paul Souillou)

RESEARCH FUNDING (2012-present, selected from a total of 10 grant awards totaling €1,334,600)

CURRENT

1. VISICORT: Adverse Immune Signatures and their Prevention in Corneal Transplantation (WP leader, Co-investigator). Funding Body: European Commission (FP7). Direct Costs : 710k€, 04/14 – 03/19.
2. CD8+CD28NEG T cells, a threat to transplantation (Principal Investigator/Coordinator). Funding Body: Labex IGO; Direct Costs : 256k€, 2016-2019
3. Define the endothelium damage induced by TEMRA CD8 T cells from kidney transplant recipients (Principal Investigator). Funding Body: CENTAURE; Direct Costs : 50k€, 2016-2018
4. Dynamic of CD8 T cell selection in blood and biopsy of patients with subclinical intragraft inflammatory infiltrates (Principal Investigator). Funding Body: CENTAURE; Direct Costs : 50k€, 2015-2017

COMPLETED

1. Projets de recherche translationnelle sur des cohortes et des biotiques (Principal Investigator/Coordinator). Funding Body: ITMO Sant Publique; Direct Costs : 30k€, 2013-2015
2. Progreffe International Fellowship (Principal Investigator). Funding Body: CENTAURE; Direct Costs : 96k€, 2012-2015
3. Study of direct alloreactive CD8 T+ cells in the evolution of kidney graft (Principal Investigator). Funding Body: ESOT; Direct Costs : 35k€, 2012-2015

HISTORY OF MENTORING AND SUPERVISION (PAST/CURRENT)

PhD Students: 5/0. MSc/MD Students: 11/1. Undergrad Students: 8/1. Senior Technicians/Research Associates/Project Managers: 2/2.

COMMERCIALISATION ACTIVITIES: Patents: 1.

KEY ACHIEVEMENTS AND HONOURS

Mentor-Mentee Award (TTS) 2013; Post-doctoral Fellowship from TTS (Transplantation Society) 2008 -2010; Young Investigator Award (ATC) 2007. Peer Reviewer for >10 Scientific Journals. Invited Lectures (2006-Pres.): 12. Presentations at National/International Meeting as Presenting or Senior Author (2000-Pres.): 27 Oral and 38 Posters.

RELEVANT RECENT PUBLICATIONS (selected from 52 original and 14 reviews/book chapters)

Total Citations to September 2019: 2283. h-index: 26

1. Neel A, Bucchia M, Neel M, Tilly G, Caristan A, Yap M, Rimbart M, Bruneau S, Cadoux M, Agard C, Hourmant M, Godmer P, Brouard S, Bressolette-Bodin C, Hamidou M, Josien R, Fakhouri F, Degauque N. B cell depletion therapy dampens CD8 T cell response in ANCA-associated vasculitis. *Arthritis & Rheumatism*. 2018 Oct 19.
2. Belarif L, Mary C, Jacquemont L, Mai H-L, Danger R, Hervouet J, Minault D, Thepenier V, Nerriere-Daguin V, Nguyen E, Pengam S, Largy E, Delobel A, Martinet B, Le Bas-Bernardet S, Brouard S, Souillou J-P, Degauque N, Blancho G, Vanhove B, Poirier N. IL-7 receptor blockade blunts antigen-specific memory T cell responses and chronic inflammation in primates. *Nat Commun. Nature Publishing Group*; 2018 Oct 26;9(1):4483. PMID: 30367166
3. Tilly G, Doan-Ngoc T-M, Yap M, Caristan A, Jacquemont L, Danger R, Cadoux M, Bruneau S, Giral M, Guerif P, Nicol B, Garcia A, Laplaud DA, Brouard S, Pecqueur Hellman C, Degauque N. IL-15 Harnesses Pro-inflammatory Function of TEMRA CD8 in Kidney-Transplant Recipients. *Front Immunol. Frontiers*; 2017 Jun 30;8:778. PMCID: PMC5492498
4. Yap M, Boeffard F, Clave E, Pallier A, Danger R, Giral M, Dantal J, Foucher Y, Guillot-Gueguen C, Toubert A, Souillou J-P, Brouard S, Degauque N. Expansion of highly differentiated cytotoxic terminally differentiated effector memory CD8+ T cells in a subset of clinically stable kidney transplant recipients: a potential marker for late graft dysfunction. *J Am Soc Nephrol*. 2014 Aug;25(8):1856–1868. PMCID: PMC4116064
5. Degauque N, Mariat C, Kenny J, Zhang D, Gao W, Vu MD, Alexopoulos S, Oukka M, Umetsu DT, DeKruyff RH, Kuchroo V, Zheng XX, Strom TB. Immunostimulatory Tim-1-specific antibody deprograms Tregs and prevents transplant tolerance in mice. *J Clin Invest*. 2008 Feb;118(2):735–741. PMCID: PMC2129234