

NAME, QUALIFICATIONS AND CONTACT DETAILS

Beatrice Charreau, PhD, PI, Transplant immunologist

CRTI Centre de Recherche en Transplantation et Immunologie UMR1064, INSERM, Université de Nantes, Nantes, France

Office : +33(0)240087410 ; Email: Beatrice.Charreau @univ-nantes.fr

EDUCATION AND EMPLOYMENT

2012 to 2016 CRTI INSERM1064 (Nantes, France). Team 5 co-leader with Pr. F Fakouri

2000 to 2011 INSERM643 (Nantes, France). Team 7 leader

2000 HDR in Immunology (University of Nantes)

1996 to 2000 INSERM437 (Nantes, France). Training: Senior Postdoctoral Fellow (Mentor Jean-Paul Souillou)

1992 to 1996 INSERM211 (Nantes, France). Training: PhD in Immunology (University of Nantes, Mentor Ignacio Anegón)

1992 ABC limited, University of Cambridge, UK, training (mentor: Dr. Neil Sullivan)

RESEARCH FUNDING

IHU-CESTI (valorisation)/ANR	B. Charreau	Tuning of human NK and T cell reactivity by novel soluble NKG2D ligands: a new checkpoint for combined immunotherapy	2017-2018	50000€
Fondation Centaure (PAC 9)	B. Charreau	Immunosignaling checkpoints in transplantation tolerance	2017-2019	40000€
LabEx IGO	B. Charreau	MICA gene polymorphism in Transplantation and cancer	2016-2019	60 000€
IHU-CESTI (PIA1)/ANR	B. Charreau	Control of endothelial dysfunction in transplantation	2013-2017	421 500€
Région Pays de la Loire- « Paris scientifiques »	B. Charreau	HYPROTEC Sélection de nouveaux actifs immunorégulateur, anti-inflammatoire ou vasoprotecteur à partir d'extraits de plantes médicinales ligériennes chimiquement modifiés	2013-2017	100 000€

HISTORY OF MENTORING AND SUPERVISION (PAST/CURRENT)

Postdoc: 2/1; PhD Students: 13/2. MSc/MD Students: 22/1. Senior Technicians/Research Associates/Project Managers: 1/1.

COMMERCIALISATION ACTIVITIES: Patents: 4.

KEY ACHIEVEMENTS AND HONOURS

Member of the **TTS** (The Transplantation Society).

Member of the **SFT** (Société francophone de Transplantation).

Member of the **ESOT** (European Society of Organ Transplantation).

Member of the **SCBF** (Société de Biologie Cellulaire de France).

Editor for Biomedical Research International (BRI) et *Frontiers* in Cardiovascular diseases/thrombosis

Regular Peer Reviewing for J Cell Biochem, Transplantation, American Journal of Transplantation, The JASN, Blood, J Cell Biol. >85 oral communications and posters / 15 communications as invited speaker

RELEVANT RECENT PUBLICATIONS (5 selected from 84 original and 6 reviews)

Total Citations: 1330; h-index: 24 (source: web of science 01/01/2017)

1. Gavlovsky PJ, Tonnerre P, Gerard N, Nedellec S, Daman AW, McFarland BJ, **Charreau B**. Alternative splice transcripts for MHC class I-like MICA encode novel NKG2D ligands with agonist or antagonist functions. *Journal of Immunology*. 2016;197:736-746.

2. Tonnerre P, Gerard N, Gavlovsky PJ, Mazalrey S, Hourmant M, Cheneau ML, Cesbron-Gautier A, Renaudin K, Bressollette-Bodin C, **Charreau B**. MICA mutant A5.1 influences BK polyomavirus reactivation and associated nephropathy after kidney transplantation. *The Journal of infectious diseases*. 2016;214:807-816.
3. Pabois A, Pagie S, Gerard N, Laboisie C, Pattier S, Hulin P, Nedellec S, Toquet C, **Charreau B**. Notch signaling mediates crosstalk between endothelial cells and macrophages via Dll4 and IL6 in cardiac microvascular inflammation. *Biochemical pharmacology*. 2016;104:95-107.
4. Tonnerre P, Gerard N, Chatelais M, Poli C, Allard S, Cury S, Bressollette C, Cesbron-Gautier A, **Charreau B**. MICA variant promotes allosensitization after kidney transplantation. *Journal of the American Society of Nephrology : JASN*. 2013;24:954-966.
5. Devalliere J, Chatelais M, Fitau J, Gerard N, Hulin P, Velazquez L, Turner CE, **Charreau B**. Lnk (SH2B3) is a key regulator of integrin signaling in endothelial cells and targets alpha-parvin to control cell adhesion and migration. *FASEB journal* 2012;26:2592-2606.