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CRCN Inserm

Institut de la Vision

Sorbonne Université / Inserm / CNRS

Team "Inflammation and Immunology in Retinal diseases"

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A. Personal Statement

I am a tenured research associate at the French National Health Institute (Inserm), where I lead a research group at the Institut de la Vision (IdV) dedicated to the study of neuroinflammatory mechanisms in central nervous system (CNS) pathologies. I have over 20 years of experience studying **immune processes in neurodegenerative diseases**, including autoimmune responses in multiple sclerosis (PhD, Sorbonne University, 2004), the role of immune cells in Alzheimer's disease and frontotemporal dementia (as a postdoctoral researcher at the University of Paris Sud and research associate at the Institut du Cerveau et de la Moelle épinière (ICM)) as well as inflammatory pathways in ocular pathologies (as a research associate at the IdV). My research on neuroimmunology has been published in a number of prestigious peer-reviewed journals including Aging Cell, Brain, Immunity, JCI, Journal of Neuroinflammation, Molecular Psychiatry and Progress in Neurobiology.

B. Degrees and Diplomas, Positions, and Honors

Degrees and Diplomas

2015: **Habilitation à diriger des recherches** (HDR), Université Paris 6

2004: **PhD** in Neurosciences, Université Paris 6

2000: **Master** in Neurosciences, Université Paris 6

Positions and Employment

Since 2018: **Research Associate** (tenure) (Team F. Sennlaub), **Institut de la Vision (IdV)** UMRS_968 INSERM/ UMR7210 CNRS /Sorbonne Université, Paris.

2009-2018: **Research Associate** (tenure) (Team B. Fontaine), **Institut du Cerveau et de la Moelle épinière (ICM)** UMRS_1127 – INSERM/ UMR7225 CNRS /UPMC, Paris.

2004-2008: **Post-doctorat** in Neuroimmunology (Team J. Kanellopoulos), **Institut de Biochimie et Biophysique Moléculaire et Cellulaire (IBBMC)** UMR8619 CNRS/Univ Paris Sud, Orsay.

2000-2003: **Master/PhD** in Neurosciences, (Team D. Pham-Dinh), **Affections de la myéline et des canaux ioniques musculaires** UMR_546 INSERM/UPMC, Paris.

Other Experience and Professional Memberships

Since 2019: **Scientific manager** of the cellular and tissular phenotyping platform of the Institut de la Vision (Part-time condition)

Since 2025: Member of the scientific "Neurodegenerative diseases" committee of the Fondation de France

Since 2022: Member of the COST action PRESTO "P2X receptors as a therapeutic opportunity" (CA211130)

Since 2021: Member of the GDR Microglia

2018-2024: Member of the research council of the Institut de la Vision (IdV)

2013-2017: Member of the administrative board of the IHU-A-ICM, Paris Institute of Translational Neuroscience

2011-2017: Member of the research council of the Institut du Cerveau et de la Moelle épinière (ICM)

Since 2000: Member of the International Society of Neuroimmunology

Expertises:

Reviewer for Brain, Molecular Psychiatry, Aging Cell, Journal of Neuroinflammation, Frontiers...

Reviewer for several grant applications (FRC, France Alzheimer, ARSEP, ITMO, FWO...)

Evaluator of numerous PhD for Doctoral school.

Honors

2007: Fellowship of Ligue Française contre la Sclérose en Plaques (LFSEP)

2004-2006: Fellowship of Association de Recherche sur la Sclérose en Plaques (ARSEP)

2004: Fellowship of Fondation pour la Recherche Médicale (FRM)

2000-2003: Fellowship of French Research Ministry

C. Grants

- 2024-2025: **IHU Foresight**: Analysis of the Immune Microenvironment of the Uveal melanoma (PI)
2024-2028: **Agence National pour la Recherche (ANR)** : Targeting P2X7 in T-cell mediated Autoimmunity (PI)
2020-2024: **Union des Aveugles et Déficiants visuels (UNADEV)** : P2X7, a novel therapeutic target in Uveitis (PI)
2016: **Institut Carnot** : A new family of cyclophilin inhibitors in neuroprotections (PI)
2014-2018: **Banque Publique d'investissement (BpiFrance)** : Role of Mastocytes in Neurology (co-PI)
2013-2017: **Agence National pour la Recherche (ANR)** : Role of the purinergic receptor P2X7 in Alzheimer's disease (PI)
2010-2012: **Association France Alzheimer** : Role of the purinergic receptor P2X7 in Alzheimer's disease (PI)

D. Supervision

1 post-doc; 5 PhD (3 ongoing); 12 Master students

E. Patent

2024: Tailored Thrombospondin-1s, which lack the properdin-like type 1 and EGF-like type2 repeats but contain the CD47-binding C-terminal domain, as agents to inhibit pathogenic inflammation

F. Publications - <https://pubmed.ncbi.nlm.nih.gov/?term=delarasse>

44 publications (PubMed), h-index = 25, >2500 citations

<https://orcid.org/0000-0001-9739-4306>

Relevant publications within the last five years

- Yang T, Ronning KE, Augustin S, Blond F, Nous C, Argyriou F, Touhami S, **Delarasse C***, Guillonnet X, Sennlaub F. Chronic intermittent hypoxia disrupts protective microglial responses in ischemic proliferative retinopathy. *J Neuroinflammation*. 2025. *Co-last author*
- Carracedo S, Launay A, Dechelle-Marquet PA, Faivre E, Blum D, **Delarasse C**, Boué-Grabot E. Purinergic-associated immune responses in neurodegenerative diseases. *Prog Neurobiol*. 2024
- Mathis T, Baudin F, Mariet AS, Augustin S, Bricout M, Przegralka L, Roubex C, Benzenine É, Blot G, Nous C, Kodjikian L, Maugé-Fayssé M, Sahel JA, Plevin R, Zeitz C, **Delarasse C**, Guillonnet X, Creuzot-Garcher C, Quantin C, Hunot S, Sennlaub F. DRD2 activation inhibits choroidal neovascularization in patients with Parkinson's disease and age-related macular degeneration. *J Clin Invest*. 2024.
- Roubex C, Nous C, Augustin S, Ronning KE, Mathis T, Blond F, Lagouge-Roussey P, Crespo-Garcia S, Sullivan PM, Gautier EL, Reichhart N, Sahel JA, Burns ME, Paques M, Sørensen TL, Strauss O, Guillonnet X, **Delarasse C***, Sennlaub F*. Splenic monocytes drive pathogenic subretinal inflammation in age-related macular degeneration. *J Neuroinflammation*. 2024. *Co-last & Corresponding-author*
- Blot G, Karadayi R, Przegralka L, Sartoris TM, Charles-Messance H, Augustin S, Negrier P, Blond F, Muñoz-Ruvalcaba FP, Rivera-de la Parra D, Vignaud L, Couturier A, Sahel JA, Acar N, Jimenez-Corona A, **Delarasse C**, Garfias Y, Sennlaub F, Guillonnet X. Perilipin 2-positive mononuclear phagocytes accumulate in the diabetic retina and promote PPARγ-dependent vasodilation. *J Clin Invest*. 2023.
- Carvalho K, Martin E, Ces A, Sarrazin N, Lagouge-Roussey P, Nous C, Boucherit L, Youssef I, Prigent A, Faivre E, Eddarkaoui S, Gauvrit T, Vieau D, Boluda S, NeuroCEB Brain Bank, Huin V, Fontaine B, Buée L, Delatour B, Dutar P, Sennlaub F, Guillonnet X, Blum D, **Delarasse C**. P2X7-deficiency improves plasticity and cognitive abilities in a mouse model of Tauopathy. *Prog Neurobiol*. 2021 *Last & Corresponding-author*
- Douguet L, Janho D, Hreich S, Benzaquen J, Seguin L, Juhel T, Dezitter X, Duranton C, Ryffel B, Kanellopoulos J, **Delarasse C**, Renault N, Furman C, Homerin G, Féral C, Cherfils-Vicini J, Millet R, Adriouch S, Ghinet A, Hofman P, Vouret-Craviari V. A small-molecule P2RX7 activator promotes anti-tumor immune responses and sensitizes lung tumor to immunotherapy. *Nat Commun*. 2021
- Conart JB, Blot G, Augustin S, Millet-Puel G, Roubex C, Beguier F, Charles-Messance H, Touhami S, Sahel JA, Berrod JP, Léveillard T, Guillonnet X, **Delarasse C***, Sennlaub F*. Insulin inhibits inflammation-induced cone death in retinal detachment. *J Neuroinflammation*. 2020. *Co-corresponding-author*
- Beguier F, Housset M, Roubex C, Augustin S, Zagar Y, Nous C, Mathis T, Eandi C, Benchaboune M, Drame-Maigné A, Carpentier W, Chardonnet S, Touhami S, Blot G, Conart JB, Charles-Messance H, Potey A, Girmens JF, Paques M, Blond F, Léveillard T, Koertvely E, Roger JE, Sahel JA, Sapieha P, **Delarasse C**, Guillonnet X, Sennlaub F. The 10q26 Risk Haplotype of Age-Related Macular Degeneration Aggravates Subretinal Inflammation by Impairing Monocyte Elimination. *Immunity*. 2020.