



Julien Verdier

Head of Neuroimmunology research | Servier



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EXPERIENCE

Head Of Neuroimmunology Research • Servier | 2025 - Now

- Define and implement the research initiatives and strategy while fostering innovation, managing the team and ensuring compliance with regulations and deadlines.

Project Leader & Disease Biology Expert • Servier | 2023 - 2025

- As a **Disease Biology Expert**, providing an expertise in immunology to projects transversally
- **Project leader** of a core team for the development of an **antibody drug** against an immune checkpoint in autoimmune diseases (target identification and validation, duration 18 months before asking for the project to stop)
- **Project leader** of a core team for the investigation of biological activities of a potential target in neuroimmunology
- Co-orchestrating a meeting to **gather « bad unfeasible ideas » across the organization** and share them collectively, which led to three drug project launched in less than 6 months (still ongoing) • **Member of Servier's Target Innovation Group** (Boston, US/Ballerup, Denmark) to optimize innovation • **Member of Servier's immunogenicity group** and creation of a repository of immunogenicity questions in past and current projects
- **Industrial mentor** for an externalized innovation project between Servier and a research team at BiomedX « Selective depletion of autoreactive plasma cells » • **Manager and supervisor** of a PhD student working on immunogenicity together with Pr. Marc Pallardy in Paris-Saclay University • Supervisor of an intern for the development of a Python-based analysis and visualization of the drug-disease landscape that became an early target assessment platform
- Co-organizer and keynote speaker for an 'Autoimmunity Day' at Servier in 2024 (talk title : Immunology and Autoimmunity : grand concepts)

Post-doctoral Scientist • SERVIER • France • June 2021-Feb 2023

- Proposition and evaluation of new drug targets in immuno-inflammation
 - ✓ Exploration of private and public transcriptomic databases
 - ✓ Presentation of new targets to the business units
- Computational immunology
 - ✓ Analysis of publicly available single-cell RNA-seq datasets
 - ✓ Facilitating and clarifying interactions between immunologists, computer scientists/bioinformaticians and translational medicine
- Immunogenicity group
 - ✓ Providing guidelines for *in vitro* / *in silico* immunogenicity predictions
 - ✓ Interactions with KOLs and CROs in this domain

Post-doctoral Scientist • Inserm • France • 2017-2020

- Single-cell analysis of circulating immune cell populations in autoimmunity using mass cytometry (CyTOF)
 - ✓ Designed the experiments, set up conditions
 - ✓ Data cleaning, data analysis, and data visualization using Python
- Role of the gut microbiota in auto-immunity (with Pasteur Institute)
 - ✓ Designed the experiments and obtained funding
 - ✓ Initiated collaborations
- Grants
 - ✓ Helped writing the proposal to obtain funding for the Hyperion Imaging System (335 k€)
 - ✓ Obtained a grant to study the role of the gut microbiota in autoimmunity (18 k€)

Post-doctoral Scientist • SysmedIBD / RWTH • Germany • 2013-2016

- Impact of oscillations of the transcription factor NF-κB in inflammatory bowel diseases
 - ✓ Set up a flow cytometry-based method to monitor NF-κB activity
 - ✓ Kinetic of innate immune responses to bacterial antigens for RNA-seq
- Screening fecal micro-RNAs in inflammatory bowel diseases
 - ✓ Setting-up and performing the Nanostring screen
 - ✓ Analyzed results, wrote the manuscript and got it published

PhD • Institut Necker • France • 2006-2011

- Role of interleukin-17 in inflammatory bowel diseases
- Immune responses to *Candida albicans*
- Immune response to *Mycobacterium avium paratuberculosis* in inflammatory bowel diseases

PUBLICATIONS AND SCIENTIFIC COMMUNICATIONS

2023 **Antibody-mediated neutralization of galectin-3 as a strategy for the treatment of systemic sclerosis** C Ortega-Ferreira, P Soret, G Robin, S Speca, S Hubert, M Le Gall, E Desvaux, M Jendoubi, J Saint-Paul, L Chadli, A Chomel, S Berger, E Nony, B Neau, B Fould, A Licznar, F Levasseur, T Guerrier, S Elouej, S Courtade-Gaiani, N Provost, TQ Nguyen, J Verdier, D Launay, F De Ceuninck [Nature Communications, 2023 Aug 31;14\(1\):5291.](#)

Single-cell mass cytometry on peripheral cells in Myasthenia Gravis identifies dysregulation of innate immune cells J Verdier, OM Fayet, E Hemery, F Truffault, N Pinzón, S Demeret, A Behin, E Fadel, J Guihaire, A Corneau, C Blanc, S Berrih-Aknin, R Le Panse [Frontiers in immunology, 2023 Jan 30:14:1083218](#)

2020 **Comparative analysis of thymic and blood Treg in myasthenia gravis: thymic epithelial cells contribute to thymic immunoregulatory defects** F Truffault *, D Nazzal *, J Verdier *, A Gradolatto, E Fadel, R Roussin, B Eymard, R Le Panse, S Berrih-Aknin (* co-authors) [Frontiers in immunology, 2020 May 6; 11:782](#)

Fecal micro-RNA screening in inflammatory bowel diseases, Verdier J *, Breunig I *, Groner S, Roubrocks S, Roy S, Streetz K, Trautwein C, Roderburg C, Sellge G (* co-authors) [J Crohns Colitis. 2020 Jan 1;14\(1\):110-117](#)

2019 **Subcellular antigen localization in commensal *E. coli* is critical for T cell activation and induction of specific tolerance** Bennek E, Mandic A, Roubrocks S, Verdier J, Kufer T, Liedtke C, Trautwein C, Sellge G [Mucosal Immunology, 2019 Jan;12\(1\):97-107](#)

SFI 2019 (Nantes, France)

Poster “Characterization of circulating immune cells in Myasthenia gravis using mass cytometry”

Myology 2019 (Bordeaux, France)

Poster “Characterization of circulating immune cells in Myasthenia gravis using mass cytometry”

Journée Thématische Cytométrie de masse (Paris, France)

Oral presentation “Characterization of circulating immune cells in a rare autoimmune disease using mass cytometry”

2018 **Pathophysiological mechanisms of autoimmunity** Sudres MA, Verdier J, Truffault F, Le Panse R, Berrih-Aknin S [Ann N Y Acad Sci. 2018 Feb;1413\(1\):59-68](#)

Journée Technologique Inter-Centres de la Pitié-Salpêtrière (Paris, France)

Oral presentation “Characterization of circulating immune cells in a rare autoimmune disease : Myasthenia gravis”

Oral presentation “Hyperion Imaging System”

Single-cell symposium (Paris, France) | organized by Curie institute

Poster “Characterization of circulating immune cells in a rare autoimmune disease:Myasthenia gravis”

2017 **c-Jun N-terminal kinase 2 promotes enterocytes survival and goblet cell differentiation in the inflamed intestine** Mandic A, Bennek E, Verdier J, Zhang K, Roubrocks S, Davis R, Denecke B, Gassler N, Streetz K, Hornef M, Cubero FJ, Trautwein C, Sellge G *Mucosal Immunol.* 2017 Sep;10(5):1211-1223

2016 **Anti-food and anti-microbial IgG subclass antibodies in inflammatory bowel disease** Jansen A, Mandic A, Bennek E, Frehn L, Verdier J, Tebrügge I, Lutz H, Streetz K, Trautwein C, Sellge G *Scand J Gastroenterol.* 2016 Dec;51(12):1453-1461

1st Conference of the European Association of Systems Medicine (EASyM)
(Berlin, Germany)

Poster “Fecal micro-RNAs in Inflammatory Bowel Diseases”

2015 **Biliary Mucosal Barrier and Microbiome** Verdier J, Luedde T, Sellge G. *Viszeralmedizin.* 2015 Jun;31(3):156-61.

Haematopoietic cell-derived Jnk1 is crucial for chronic inflammation and carcinogenesis in an experimental model of liver injury Cubero FJ, Zhao G, Nevzorova YA, Hatting M, Al Masaoudi M, Verdier J, Peng J, Schaefer FM, Hermanns N, Boekschoten MV, Grouls C, Gassler N, Kiessling F, Muller M, Davis RJ, Liedtke C, Trautwein C. *J Hepatol.* 2015 Jan;62(1):140-9.

2014 **Distinct patterns of IgG and IgA against food and microbial antigens in serum and feces of patients with inflammatory bowel diseases** Frehn L, Jansen A, Bennek E, Mandic AD, Temizel I, Tischendorf S, Verdier J, Tacke F, Streetz K, Trautwein C, Sellge G. *PLoS One.* 2014 Sep 12;9(9):e106750.

2013 **Molecular mechanisms and cell targets of Th17 cells in the gastrointestinal tract: an innate sense of adaptivity** Verdier J, Ruemmele FM. *Int Rev Immunol.* 2013 Oct-Dec;32(5-6):475-92.

Specific IgG response against *Mycobacterium avium paratuberculosis* in children and adults with Crohn's disease Verdier J, Deroche L, Allez M, Loy C, Biet F, Bay S, Matysiak-Budnik T, Reyrat JM, Heyman M, Cerf-Bensussan N, Ruemmele FM, Ménard S. *PLoS One.* 2013 May 2;8(5):e62780.

2012 **Compartmentalized expression of Th1 and Th17 cytokines in pediatric inflammatory bowel diseases** Verdier J, Begue B, Cerf-Bensussan N, Ruemmele FM. *Inflamm Bowel Dis.* 2012 Jul;18(7):1260-6.

2011 **Defective IL10 signaling defining a subgroup of patients with inflammatory bowel disease** Begue B, Verdier J, Rieux-Lauzier F, Goulet O, Morali A, Canioni D, Hugot JP, Daussy C, Verkarre V, Pigneur B, Fischer A, Klein C, Cerf-Bensussan N, Ruemmele FM. *Am J Gastroenterol.* 2011 Aug;106(8):1544-55.

2010 **Reduced expression of FOXP3 and regulatory T-cell function in severe forms of early-onset autoimmune enteropathy** Moes N, Rieux-Lauca F, Begue B, Verdier J, Neven B, Patey N, Torgerson TT, Picard C, Stolzenberg MC, Ruemmele C, Rings EH, Casanova JL, Piloquet H, Biver A, Breton A, Ochs HD, Hermine O, Fischer A, Goulet O, Cerf-Bensussan N, Ruemmele FM. *Gastroenterology*. 2010 Sep;139(3):770-8.

Journées Françaises d'Hépatologie et d'Oncologie Digestive (Paris, France)
Poster "Induction de la voie Th17 par *Candida albicans* chez l'homme" **Best poster award**

Journées de l'école doctorale (JED, Paris, France)
Poster "Characterization of the components of *Candida albicans* implicated in the Th17 response in humans"

2009 **Journées de l'école doctorale (JED, Paris, France)**
Oral presentation "IL-17 and intestinal inflammation in humans: protective or deleterious?" **Best oral communication award**

2008 **The cytokine interleukin 21: a new player in coeliac disease?**
Meresse B, Verdier J, Cerf-Bensussan N. *Gut*. 2008 Jul;57(7):879-81.

