

Symposium Institut Cochin
Long COVID and other Post-Acute Infections:
From symptoms to mechanisms

December 5, 2025

Amphi Luton, UFR Médecine Cochin - 24, rue du Fg St-Jacques, Paris 14

09:00 - 09:10 Welcome. **Florence Niedergang** (Director of Institut Cochin, Paris, France),
Morgane Bomsel (Institut Cochin, Paris, France)

Session 1 - Variety of Post-Infectious Syndromes

Chaired by Dominique Salmon, Molly Ingersoll

09:10 - 09:40 **Olivier Robineau** (CHU Tourcoing, France)
Similarities and differences between COVID-19 and other post infectious syndromes: epidemiology, risk factors, clinical symptoms

09:40 - 10:10 **Valentino D'Onofrio** (Center for Vaccinology, Ghent University, Gent, Belgium)
Sex differential responses to viral infection and COVID- 19

Session 2 - Viral persistence

Chaired by Sarah Gallois-Montbrun, Florence Margottin

10:10 - 10:40 **Morgane Bomsel** (Institut Cochin, Paris, France)
SARS-CoV-2 persistence in tissues, megakaryocytes and platelets

10:40 - 11:10 **Bruce K. Patterson** (IncellDx Inc, Hayward, US)
Long COVID diagnostic with differentiation from chronic Lyme disease using machine learning and cytokine hubs

11:10- 11:40 *Break*

Session 3 - Immune Dysregulation

Chaired by Daniela Tudor, Véronique Witko

11:40 - 12:10 **Nicolas Huot** (Institut Pasteur, Paris, France)
Decoding NK Cell Dysfunction in Long COVID: Implications for SARS-CoV-2 Reservoir Persistence

12:10 - 12:40 **Elisabeth Dulfer** (Radboud university medical center, Nijmegen, the Netherlands)
Trained immunity in Long Covid and Lyme diseases

12:40 - 13:10 **Jérôme Estaquier** (Inserm U1124, Université Paris Cité, Paris, France)
Immunological dysfunctions in Long COVID

13:10 - 14:40 *Lunch (Rosalind Franklin room, 22 rue Méchain)*

Session 4 - Neuropathogenesis

Chaired by Sandrine Bourdoulous, Yonatan Ganor

14:40 - 15:10 **Nicolas Vodovar** (Cardiovascular endocrinology (CARE), Hôpital Lariboisière, Paris, France)
Perturbation of Serotonin metabolism in Long COVID and other diseases

15:10 - 15:40 **Lindsay Mc Alpine** (Yale School of Medicine, New Haven, US)
The Brain in Long COVID and Post-Acute Infection Syndromes

15:40 - 16:00 *Break*

Session 5 - Mitochondrial dysfunction

Chaired by Frédéric Bouillaud, Catherine Postic

16:00 - 16:30 **Marta Camici** (INMI L. Spallanzani, IRCCS, Roma, Italy)
A vagus nerve- hypothalamic-pituitary- adrenal-mitochondrial axis dysfunction in Long COVID

16:30 - 17:00 **Tibor Pankotai** (Hungarian Centre of Excellence for Molecular Medicine, Szeged, Hungary)
Mitochondrial dysfunction in long COVID patients

Session 6 - Biomarkers

Chaired by Morgane Bomsel, Agnès Lehuen

17:00 - 17:30 **Mireille Laforge** (NeuroDiderot, Université Paris Cité, Inserm, Paris, France)
The immunometabolic signatures of plasma and T lymphocytes in long-COVID patients place the mitochondria at the centre of the physiopathology

17:30 - 18:00 **Amy Proal** (PolyBio Research Foundation, Medford, MA, US)
Potential biomarkers in long COVID: avenues and limits

Conclusion

18:00 - 18:20 **Dominique Salmon** (Institut Fournier, Paris, France)
Title to be announced