ADVANCED IMMUNOLOGY COURSE
2018 - 2019

Masters (M2) of Université Paris Descartes, Sorbonne Université et Université Diderot

PROGRAM
From November 19th 2018 to January 11th 2019
ADVANCED IMMUNOLOGY COURSE
2018 - 2019

MASTERS (M2) des UNIVERSITES PARIS DESCARTES, PIERRE et MARIE CURIE et DIDEROT

THEMES

- Development of the immune system.
- Molecular basis for antigen recognition by B and T lymphocytes.
  - Repertoire selection and auto-immunity.
    - Lymphocyte interactions
  - Immune responses and immunotherapy
    - Innate immune system

The course will take place at

Education Center - Pavillon Louis MARTIN – Building N° 9
Centre d’Immunologie Humaine – Metchnikoff building
Centre d’Immunologie Humaine – François Jacob Building

Lectures and Seminars: Social building (06): rooms 4, and 5
Practical Courses: Pavillon Louis Martin building (09): 1st floor

28, rue du Docteur Roux 75724 Paris Cedex 15
MONDAY 19TH NOVEMBER –

8:30 - 10:00  Presentation  Ana CUMANO, Milena HASAN, Andrés ALCOVER,
               (Institut Pasteur - Paris)

NOVEMBER 19TH TO DECEMBER 7TH 2018

Week 1-3

PRACTICAL COURSES

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DECEMBER 10TH TO DECEMBER 21ST 2018

Week 3-4

CONFERENCES

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JANUARY 9TH TO JANUARY 11TH 2019

BIBLIOGRAPHY SEMINARS

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JANUARY 8TH 2019 EXAM

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Application of cutting edge technologies in the characterization of age-dependent differences in the immune response of healthy individuals
(supported in part by “Milieu Intérieur” LabEx project)

Director: Milena Hasan

Conferences associated to the Practical Courses:

**Tuesday 27 November**

9:00 - 10:00 Genetic determinants of the Immune response  **Lluis QUINTANA-MURCI**
(Institut Pasteur - Paris)

**Thursday 29 November**

9:00 - 10:00 From Translational Research to Personalized Medicine  **Stanislas POL**
(Institut Pasteur / Hôpital Cochin - Paris)

Designed and organized by
Murielle ALMOUSSA, Bernd JAGLA, Bruno CHARBIT Milena HASAN,
Isabelle LEQUEUTRE, Valentina LIBRI, Sophie NOVAULT, Sandrine SCHMUTZ
### ADVANCED IMMUNOLOGY CONFERENCES

**FROM MONDAY DECEMBER 10TH TO FRIDAY DECEMBER 21ST 2018**

**Module d’Ecole Doctorale**  
Advanced Immunology - 1

| **MONDAY 10 DECEMBER** | 9:00 - 12:00 | Phylogeny of the Immune System | Louis du PASQUIER  
(University of Bale, Switzerland) |
|------------------------|--------------|--------------------------------|-------------------------------------------------------------------|
|                        | 13:30 - 16:30| Stem cells, hematopoiesis and lymphopoiesis | Ana CUMANO  
(Institut Pasteur - Paris) |
| **TUESDAY 11 DECEMBER** | 9:00 - 12:00 | Lymphoid tissue development. | Tom CUPEDO  
(Erasmus University, Rotterdam, The Netherlands) |
|                        | 13:30 - 16:30| Thymus development | Nuno ALVES  
(IBMC-Porto - Portugal) |
| **WEDNESDAY 12 DECEMBER** | 9:00 - 12:00 | Antigen receptor diversity and recombination | Ludovic DERIANO  
(Institut Pasteur - Paris) |
|                        | 13:30 - 16:30| Lymphocyte dynamics. | Philippe BOUSSO  
(Institut Pasteur - Paris) |
| **THURSDAY 13 DECEMBER** | 9:00 - 12:00 | Lymphocyte activation and Immunological Synapses | Andres ALCOVER  
(Institut Pasteur-Paris) |
|                        | 13:30 - 16:30| Peripheral tolerance and autoimmunity. | Burkhard BECHER  
(University of Zurich - Switzerland) |
| **FRIDAY 14 DECEMBER** | 9:00 - 12:00 | Heterogeneity of T helper cell subsets. | Marc VELDHOEN  
(Institute of Molecular Medicine, Lisbon, Portugal) |
|                        | 13:30 - 16:30| \(\alpha/\beta\) T cell development and selection | Ludger KLEIN  
(Institute for Immunology – Munich, Germany) |
**ADVANCED IMMUNOLOGY CONFERENCES**

**MODULE D’ÉCOLE DOCTORALE**
**ADVANCED IMMUNOLOGY -2**

**MONDAY 17 DECEMBER**

9:00 - 12:00  B cell memory
Thierry DEFRANCE
(Center for Infectiology Res., Lyon)

13:30 - 16:30  γ/δ T cells: development and function.
Adrian HAYDAY
(Francis Crick Institute- London, UK)

**TUESDAY 18 DECEMBER**

9:00 - 12:00  Innate lymphoid cells
James DI SANTO
(Institut Pasteur - Paris)

13:30 - 16:30  Dendritic cells
Philippe PIERRE
(Centre d’Immunologie Marseille-Luminy)

**WEDNESDAY 19 DECEMBER**

9:00 - 12:00  Commensals, the Immune System and the Brain
Gerard EBERL
(Institut Pasteur - Paris)

13:30 - 16:30  Leukemia pathogenesis
Ralf KÜPPERS
(University of Duisburg - Essen - Germany)

**THURSDAY 20 DECEMBER**

9:00 - 12:00  Molecular Basis of Immune-deficient diseases
Alain FISCHER
(Institut Imagine - Paris)

13:30 - 16:30  Fc receptors and allergy
Marc DAERON
(Centre d’Immunologie Marseille-Luminy)

**FRIDAY 21 DECEMBER**

9:00 - 12:00  Vaccine development in the 21st century
Philippe Sansonetti
(Institut Pasteur - Paris)

13:30 - 16:30  Control of Disease Susceptibility
Miguel SOARES
(Gulbenkian Institute, Oeiras, Portugal)
Tuesday, JANUARY 8, 2019

9h00 - 13h00  EXAM (Auditorium François JACOB)

14h30 – 17h30  Answers to the exam’s questions. Interactive feedback session
                (Amphithéatre Duclaux)

ADVANCED IMMUNOLOGY BIBLIOGRAPHY SEMINARS

WEDNESDAY JANUARY 9

9:30 - 12:30  SEMINAR 1
  Antibodies in health and disease
  Organizers:  Friederique JÖNSSON (Institut Pasteur - Paris)
                Hugo MOUQUET (Institut Pasteur - Paris)

14:00 - 17:00  SEMINAR 2
  Lymphocyte Trafficking
  Organizers:  Idan MILO (Institut Pasteur - Paris)
                Emmanuel DONNADIEU (Institut Cochin - Paris)

THURSDAY JANUARY 10

9:30 - 12:30  SEMINAR 3
  Lymphocyte activation and transcriptional regulation.
  Organizers:  Elisabetta BIANCHI (Institut Pasteur - Paris)
                Jerome DELON (Institut Cochin - Paris)

14:00 - 17:00  SEMINAR 4
  T cell responses.
  Organizers:  Corinne TANCHOT
                (Hôpital Européen Georges Pompidou - Paris)
                Christine BOURGEOS
                (Faculté de Médecine. Université Paris Sud)
FRIDAY JANUARY 11

9:30 - 12:30  **SEMINAR 5**  
Innate immunity  
**Organizers:** Florence NIEDERGANG (Institut Cochin - Paris)  
Molly INGERSOLL (Institut Pasteur – Paris)

14:00 - 17:00  **SEMINAR 6**  
Molecular basis of B cell differentiation.  
**Organizers:** Paulo VIEIRA (Institut Pasteur- Paris)  
Isabelle ANDRÉ-SCHMUTZ (Institut Imagine - Paris)

17:30  **PARTY**