

INSTITUT PASTEUR COURSE - EDUCATION CENTER

Programme 2024-2025 Advanced immunology

Institut Pasteur, Paris, November 18, 2024 - January 10, 2025
Ana Cumano, Rachel Golub, Milena Hasan

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ADVANCED IMMUNOLOGY COURSE

2024 - 2025

MASTERS (M2) UNIVERSITE PARIS CITE ET SORBONNE UNIVERSITE

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

DIRECTORS OF THE COURSE

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NOVEMBER 18 TO DECEMBER 6, 2024

WEEKS 1 - 3

PRACTICAL COURSES 1ST FLOOR

CLASSROOMS 2 & 4

DECEMBER 9 TO DECEMBER 13, 2024

WEEK 4

CONFERENCES - CLASSROOM 2

DECEMBER 16 TO DECEMBER 20, 2024

WEEK 5

CONFERENCES - CLASSROOM 2 & 3 - EXCEPTED ON DECEMBER 19 IN ROOM 5

JANUARY 7, 2025

EXAM - CLASSROOM 2 & 3

JANUARY 8 TO JANUARY 10, 2025

BIBLIOGRAPHY SEMINARS - CLASSROOM 2 & 3

ADVANCED IMMUNOLOGY PRACTICAL COURSES

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)

HEAD OF PRACTICAL COURSES: Milena HASAN

See dedicated booklet for the full program of practical courses

Designed and organized by:

Laura Barrio Cano, Slobodan Culina, Stephan Fischer, Milena Hasan, Bernd Jagla, Esmá Karkení, François Le Guerroue, Isabelle Lequeutre, Carolina Moraes Cabé, Sophie Novault, Théo Putigny, Sandrine Schmutz, Valerie Seffer, Yakov Vitrenko

THURSDAY 14 NOVEMBER

11:30 - 12:30 Pre-Start (IT tools connections)  [Change link](#)

Education Center

Week 1 - Classroom 2 & 4 - Practical room 1st Floor

MONDAY, NOVEMBER 18 - INTRODUCTION - PBMC - PREPARATION AND CELL STIMULATION

09:00 - 10:00	Reception of students & Introduction	C. Corbin, I. Lequeutre, S. Malot M. Perez, V. Ponticelli, T. Putigny (Centre d'Enseignement, Institut Pasteur - Paris)
10:00 - 10:30	Presentation of students	R. Golub, A. Cumano, M. Hasan (Institut Pasteur - Paris)
10:30 - 11:30	Introduction to Practical Work	M. Hasan (Institut Pasteur - Paris)
All		
12:30 - 13:00	Presentation of laboratory rules	I. Lequeutre, T. Putigny (Institut Pasteur - Paris)
13:00 - 18:30	PBMC isolation, cell counting, freezing, immune stimulation	I Lequeutre, S. Novault Th. Putigny, S. Schmutz (Institut Pasteur - Paris)

TUESDAY, NOVEMBER 19 - CELL PHENOTYPING - FLOW CYTOMETRY

All		
09:00 - 10:00	Seminar flow cytometry	S. Schmutz (Institut Pasteur - Paris)
10:00 -13:00	Staining of cells for cytometry	S. Culina, I. Lequeutre, Th. Putigny, S. Schmutz (Institut Pasteur - Paris)
17:00 - 18:30	Collection of supernatants after O/N stimulation Freezing of supernatants and cells	I. Lequeutre, Th. Putigny (Institut Pasteur - Paris)
Group A+B		
14:00 - 15:30	Cytometer set up and sample acquisition	S. Culina, S. Schmutz (Institut Pasteur - Paris)
15:30 - 17:00	Preparation of Journal Club	
Group C+D		
14:00 - 15:30	Preparation of Journal Club	
15:30 - 17:00	Cytometer set up and sample acquisition	S. Novault, S. Schmutz (Institut Pasteur - Paris)

WEDNESDAY, NOVEMBER 20 - FLOW CYTOMETRY AND RNA EXTRACTION

All

- 09:00 - 10:00** Seminar Imaging cytometry MARK II **M. Hasan**
(Institut Pasteur - Paris)
- 10:00 - 12:00** Extraction of RNA, keep on ice **I. Lequeutre, C. Moraes Cabé**
Th. Putigny
(Institut Pasteur - Paris)
- 13:00 - 18:00** Flow cytometry data analysis, FlowJo **S. Culina, S. Schmutz**
(Institut Pasteur - Paris)

THURSDAY, NOVEMBER 21 - IMAGING CYTOMETRY AND CELL METABOLISM

All

- 09:30 - 10:00** Seminar seahorse **L. Barrio Cano, F. Le Guerroue**
(Institut Pasteur - Paris)

Group A

- 10:00 - 13:00** Seahorse experiment **L. Barrio Cano, F. Le Guerroue**
(Institut Pasteur - Paris)

Group B

- 10:00 - 13:00** MARK II experiment **M. Hasan, E. Karkeni**
(Institut Pasteur - Paris)

Group C+D

- 10:00 - 13:00** Flow cytometry data analysis

Group A+B

- 14:00 - 17:00** Flow cytometry data analysis

Group C

- 14:00 - 17:00** Seahorse experiment **L. Barrio Cano, F. Le Guerroue**
(Institut Pasteur - Paris)

Group D

- 14:00 - 17:00** MARK II experiment **M. Hasan, E. Karkeni**
(Institut Pasteur - Paris)

FRIDAY, NOVEMBER 22 - CELL SORTING AND CELL METABOLISM

Group A+B

10:00 - 13:00 Journal Club preparation

Group C

10:00 - 13:00 MARK II experiment

M. Hasan, E. Karkeni
(Institut Pasteur - Paris)

Group D

10:00 - 13:00 Seahorse experiment

L. Barrio Cano, F. Le Guerroue

Group A

14:00 - 17:00 MARK II experiment

M. Hasan, E. Karkeni
(Institut Pasteur - Paris)

Group B

14:00 - 17:00 Seahorse experiment

L. Barrio Cano, F. Le Guerroue
(Institut Pasteur - Paris)

Group C+D

14:00 - 17:00 Journal Club preparation

Week 2 - Classroom 2 & 4 - Practical room 1st Floor

MONDAY, NOVEMBER 25 - RNA SEQUENCING - LIBRARY PREPARATION

All

09:00 - 18:00 Library preparation

**I. Lequeutre, Th. Putigny
Y. Vitrenko**
(Institut Pasteur - Paris)

TUESDAY, NOVEMBER 26 - IMAGING CYTOMETRY AND CELL METABOLISM AND JOURNAL CLUB

All

09:00 - 12:00 MARK II data analysis

M. Hasan, E. Karkeni
(Institut Pasteur - Paris)

13:00 - 15:30 Seahorse data analysis

L. Barrio Cano, F. Le Guerroue
(Institut Pasteur - Paris)

15:30 - 17:30 Journal Club: Present an article
Goup A,B, C,D

**L. Barrio Cano, S. Fischer,
M. Hasan, B. Jagla,
I. Lequeutre, C. Moraes Cabé,
S. Novault, Th. Putigny,
S. Schmutz, V. Seffer, Y. Vitrenko**
(Institut Pasteur - Paris)

WEDNESDAY, NOVEMBER 27 – MULTIPLEX PROTEIN PROFILING

All

09:00 - 09:30 Seminar protein profiling - ELISA / xMAP

E. Karkeni
(Institut Pasteur - Paris)

09:30- 11:30 Bioplex200 experiment

E. Karkeni, V. Seffer
(Institut Pasteur - Paris)

12:30 - 18:00 Bioplex200 experiment (+ Prism software)

E. Karkeni, V. Seffer
(Institut Pasteur - Paris)

THURSDAY, NOVEMBER 28 - MULTIPLEX PROTEIN PROFILING AND RNA SEQUENCING

All

- 09:00 - 12:00** Bioplex200 experiment data analysis **E. Karkeni**
(Institut Pasteur - Paris)
- 12:15 - 12:40** PHOTO
- 13:15 - 14:30** Seminar sequencing
+ summary of the wetlab experiment **Y. Vitrenko**
(Institut Pasteur - Paris)
- 14:30 - 15:30** Seminar single cell transcriptomics **C. Moraes Cabé**
(Institut Pasteur - Paris)
- 15:30 - 18:00** RNA sequencing (+ RNA-Seq) data analysis: intro **S. Fischer, B. Jagla**
(Institut Pasteur - Paris)

FRIDAY, NOVEMBER 29 - SEQUENCING - DATA ANALYSIS, JOURNAL CLUB

All

- 09:00 - 10:00** Seminar "Genetic determinants
of the Immune response" **L. Quintana-Murci**
(Institut Pasteur - Paris)
- 10:00 - 12:00** RNA sequencing - data analysis **S. Fischer, B. Jagla**
(Institut Pasteur - Paris)
- 14:15 - 17:30** RNA sequencing - data analysis **S. Fischer, B. Jagla**
(Institut Pasteur - Paris)

Week 3 - Classroom 2 & 4 - Practical room 1st Floor

MONDAY, DECEMBER 2 - SINGLE CELL REAL TIME PCR AND IMAGING CYTOMETRY

All

- 09:00 - 10:00 **Seminar** “The human spleen filtering red blood cells and their vacuoles: malaria, transfusion, sickle cell disease” **P. Buffet**
(Institut Pasteur - Paris)
- 10:00 - 12:00 RNA-seq - data analysis **S. Fischer, B. Jagla**
(Institut Pasteur - Paris)
- 13:30 - 17:30 RNA-seq - data analysis
Module on scRNA-Sq) **S. Fischer, B. Jagla**
(Institut Pasteur - Paris)

TUESDAY, DECEMBER 3 - SINGLE CELL SORTING AND TRANSCRIPTOMICS

All

- 09:00 - 10:00 seminar cell sorting **S. Novault**
(Institut Pasteur - Paris)
- 10:00 - 12:00 Staining of cells for sorting **I. Lequeutre, S. Novault**
Th. Putigny
(Institut Pasteur - Paris)

Group A+B

- 13:00 - 14:30 single cell sorting **S. Novault, S. Schmutz**
(Institut Pasteur - Paris)
- 14:30 - 15:00 Single cell partitioning for scRNA-seq **C. Moraes Cabé**
(Institut Pasteur - Paris)

- 15:00 - 17:00 Preparation of presentations

Group C+D

- 13:00 - 15:00 Preparation of presentations
- 15:00 - 16:30 single cell sorting **S. Novault, S. Schmutz**
(Institut Pasteur - Paris)
- 16:30 - 17:00 Single cell partitioning for scRNA-seq **C. Moraes Cabé**
(Institut Pasteur - Paris)

WEDNESDAY, DECEMBER 4 - CONFERENCE ASSOCIATED TO THE PRACTICAL COURSES

09:00 - 10:00 **Seminar** "Human samples for research"

E. Mottez
(Inserm - Paris)

10:00 - 18:00 Preparation of presentations

THURSDAY, DECEMBER 5 - CONFERENCE ASSOCIATED TO THE PRACTICAL COURSES

09:00 - 10:00 **Seminar** "the IL-23 pathway in inflammatory diseases, from basic biology to therapy and back"

L. Rogge
(Institut Pasteur - Paris)

10:00 - 18:00 Preparation of presentations

hand in presentations by midnight

FRIDAY, DECEMBER 6

All

09:00 - 16:30 Presentation of the TP results (per pair)

L. Barrio Cano, S. Fischer
M. Hasan, B. Jagla
I. Lequeutre, C. Moraes Cabé
S. Novault, T. Putigny
S. Schmutz, V. Seffer, Y. Vitrenko
(Institut Pasteur - Paris)

17:00 Concluding remarks & Party

L. Barrio Cano, S. Fischer
M. Hasan, B. Jagla
I. Lequeutre, C. Moraes Cabé
S. Novault, Th. Putigny
S. Schmutz, V. Seffer, Y. Vitrenko
(Institut Pasteur - Paris)

Week 4- Classroom 2

MONDAY, DECEMBER 9

09:00 - 12:00 Phylogeny of the Immune System **L. du Pasquier**
(University of Basel - Switzerland)

13:30 - 16:30 Dendritic cells **A.-M. Lennon**
(Institut Curie - Paris)

TUESDAY, DECEMBER 10

09:00 - 12:00 Origin of antigen receptor diversity and recombination **L. Deriano**
(Institut Pasteur - Paris)

13:30 - 16:30 Hematopoiesis **A. Cumano**
(Institut Pasteur - Paris)

WEDNESDAY, DECEMBER 11

09:30 - 12:00 Lymphocyte dynamics **Ph. Bousso**
(Institut Pasteur - Paris)

13:30 - 16:30 α/β T cell development and selection **L. Klein**
(Institute for Immunology - Munich, Germany)

THURSDAY, DECEMBER 12

09:00 - 12:00 Thymus development **G. Anderson**
(University of Birmingham - UK)

13:30 - 16:30 Peripheral tolerance and autoimmunity. **B. Becher**
University of Zurich - Switzerland)

FRIDAY, DECEMBER 13

09:00 - 12:00 Heterogeneity of T helper cell subsets **M. Veldhoen**
(Institute of Molecular Medicine - Lisbon - Portugal)

13:30 - 16:30 Innate lymphoid cells **J. di Santo**
(Institut Pasteur - Paris)

Week 5 - DECEMBER 16-20, 2024

Week 5 - Classroom 2 - Excepted on December 19 in Room 5

MONDAY, DECEMBER 16

09:00 - 12:00 Immune response and vaccination strategies to Plasmodium **R. Amino**
(Institut Pasteur - Paris)

13:30 - 16:30 γ/δ T cells: development and function **B. Silva Santos**
(Institute of Molecular Medicine, Lisbon, Portuga)

TUESDAY, DECEMBER 17

09:00 - 12:00 Lymphoid tissue development **T. Cupedo**
(Erasmus University - Rotterdam - The Netherlands)

13:30 - 16:30 Lymphocyte activation and Immunological synapses **A. Alcover**
(Institut Pasteur - Paris)

WEDNESDAY, DECEMBER 18

09:00 - 12:00 Commensals, the Immune System and the Brain **G. Eberl**
(Institut Pasteur - Paris)

13:30 - 16:30 Lymphoma pathogenesis **R. Küppers**
(University of Duisburg - Essen - Germany)

THURSDAY, DECEMBER 19

09:00 - 12:00 Genetic basis of Immune Pathologies **V. Beziat**
(Institut Imagine - Paris)

13:30 - 16:30 Effector funtions of antibodies **M. Daeron**
(Centre d'Immunologie Marseille - Luminy)

FRIDAY, DECEMBER 20

09:00 - 12:00 Neuroimmunology **M. Schwartz and A. Deczkowska**
(The Weizmann Institute - Rehovot - Israel and Institut Pasteur - Paris)

13:30 - 16:30 B cell memory **D. Calado**
(Francis Crick Institute - London - UK)

Week 6 - JANUARY 6 - 10, 2025

Week 6- Classroom 2 & 3

TUESDAY, JANUARY 7, - CLASSROOM 2 & 3

09:00 - 13:00 **EXAM**

BIBLIOGRAPHY SEMINARS

WEDNESDAY, JANUARY 8

09:30 - 12:30 **SEMINAR 1**: Lymphocyte activation and transcriptional regulation

E. Bianchi (Institut Pasteur - Paris)

V. di Bartolo (Institut Pasteur - Paris)

14:00 - 17:00 **SEMINAR 2**: Lymphocyte Trafficking

E. Donnadieu (Institut Cochin - Paris)

L. Dupré (Toulouse University)

THURSDAY, JANUARY 9

09:30 - 12:30 **SEMINAR 3**: Molecular basis of B cell differentiation

S. Mancini (Université Rennes)

P. Vieira (Institut Pasteur - Paris)

14:00 - 17:00 **SEMINAR 4**: T cell responses

Ch. Bourgeois (Faculté de Médecine - Université Paris Sud)

C. Tanchot (Hôpital Européen Georges Pompidou - Paris)

FRIDAY, JANUARY 10

09:30 - 12:30 **SEMINAR 5**: Innate immunity

S. Faure-Dupuy (Institut Cochin - Paris)

M. Rousseau (INSERM - Paris)

14:00 - 17:00 **SEMINAR 6**: Antibodies in health and disease

F. Jönsson (Institut Pasteur - Paris)

H. Mouquet (Institut Pasteur - Paris)

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