



7th Scientific Days on Autophagy



27-29 November, 2017

Université Paris-Descartes, Paris, France

12 rue de l'Ecole de médecine, 75006 Paris

Monday, November 27th

13h00-14h15 **Arrival and Registration**

14.15-14.30 **Opening and Welcome Address**

CFATG president - **Mathias Faure**.

Dean of the Faculty of Medicine of University Paris Descartes - **Gérard Friedlander**.

Local committee coordinator - **Audrey Esclatine**.

14h30-18h00 Session I: REGULATION AND SIGNALING

Session Chair: **Patrice Codogno** (Institut Necker-Enfants Malades, INEM, Paris)

14.30-15.15

Keynote lecture

Dr Alfred Meijer,

(University of Amsterdam, Netherlands)

Title: **Amino acid regulation of Autophagy**



Session Chairs: **Etienne Morel** (Institut Necker-Enfants Malades, Paris) ; **Carine Joffre** (Centre de Recherches en Cancérologie de Toulouse, Toulouse)

15.15-15.30 **Maria Moriel-Carretero** (Institut de Génétique Humaine, Montpellier)

Control of Genome Stability by Dietary Interventions

15.30-15.45 **Caroline Mauvezin** (Bellvitge Biomedical Research Institute, Spain)

Impact of lysosomal acidification and intracellular localization on autophagosome-lysosome fusion

15.45-16.00 **Ganna Panasuyk** (Institut Necker-Enfants Malades, INEM, Paris)

Class III PI3K acts upstream of mitochondria function to control adaptation to fasting

16h00-16h30 Coffee Break

Session Chair: **Etienne Morel** (Institut Necker-Enfants Malades, Paris)

16.30-17.15

Keynote lecture

Dr Patrice Codogno

(INEM, University Paris Descartes, Paris)

Title: Dynamics and versatility in Autophagy:
Lessons from cell biology and physiology



Session Chairs: **Etienne Morel** (Institut Necker-Enfants Malades, Paris); **Carine Joffre** (Centre de Recherches en Cancérologie de Toulouse, Toulouse)

17.15-17.30 **Franck Oury** (Institut Necker-Enfants Malades, INEM, Paris)

Autophagy controls memory acquisition and reverse age-related memory decline

17.30-17.45 **Frédéric Checler** (IPMC UMR 7275 CNRS-UNS, Labex DistAlz, Valbonne)

Presenilins at the crossroad of an interplay between Parkin and Pink-1 in neurodegenerative diseases

17.45-18.00 **Manish Kumar Singh** (Institut Curie, Paris)

An imaging approach to study the relationship between spatial-temporal localization of autophagosomes and direction of cell migration

18.00-18-15 **Flash Talks Session I**

Session Chair: **Sophie Patingre** (Institut de Recherche en Cancérologie de Montpellier, Montpellier)

Pierre Vigié (Institut de biochimie et génétique cellulaires, Bordeaux)

Study of the contribution of phosphatidylethanolamine pools in yeast mitophagy induction

Laury Lescat (UMR1419 Nutrition Métabolisme Aquaculture NuMeA, Aquapôle INRA, Saint Pée sur Nivelle)

LAMP2A in the light of evolution

Marine Jacquet (UMR1098 INSERM, Besancon)

GABARAPL1 tumor suppressive function is independent of its conjugation to autophagosomes in MCF-7 breast cancer cells

Petra Paul (University of Zürich, Zürich, Switzerland)

The role of macroautophagy in the lung epithelium during Influenza A infections

18h30-23h00

Dinner finger food, Poster session I and open bar

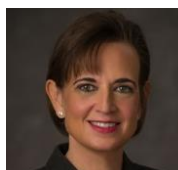
Tuesday, November 28th

9h00-11h45 **Session II: PATHOPHYSIOLOGY**

Session Chair: **Sophie Pattingre** (Institut de Recherche en Cancérologie de Montpellier, IRCM, Montpellier)

9h00-9h45 **Keynote lecture**

Dr Beth Levine
(HHMI, Dallas, USA)



Title: **Beclin 1 in Physiology and Pathophysiology**

Session Chairs: **Valerie Pierrefite-Carle** (UMR E4320 CEA/Université Nice Sophia Antipolis) ;
Sophie Pattingre (Institut de Recherche en Cancérologie de Montpellier, IRCM, Montpellier)

09.45-10.00 **Matias Simons** (Institut Imagine, Paris)

Mutations in ATP6AP2 cause autophagic liver disease in humans

10.00-10.15 **Nicolas Dupont** (Institut Necker-Enfants Malades, INEM, Paris)

Non-cell autonomous autophagy regulates kidney epithelium homeostasis

10.15-10.30 **Stéphanie Gayral** (INSERM UMR 1048, I2MC, EQ5 Toulouse)

Targeting phosphoinositide 3-kinase CII α impairs the interplay between primary cilium and autophagy in endothelial cell: a role in atherosclerosis development

10h30-11h00 **Coffee Break**

11.00-11.15 **Manon Moulis** (Institut des Maladies Métaboliques et Cardiovasculaires, I2MC, Toulouse)

Role of mitochondria-associated membranes as a sub-cellular hub for the regulation of cell death and mitophagy in vascular smooth muscle cell

11.15-11.30 **Emmanuel Weiss** (Centre de recherche sur l'inflammation CRI - UMR 1149, Paris)

LC3-associated phagocytosis as a protective pathway against systemic inflammation in patients with cirrhosis

11.30-11.45 **Ana Negulescu** (Institut du Cerveau et de la Moelle épinière, Paris)

Impaired TBK1 kinase activity can lead to ALS disease due to defective autophagy

11.45-12.00 **Flash Talks Session II**

Session Chair: **Marion Lussignol** (Institut de Biologie Intégrative de la Cellule, I2BC, Gif-sur-Yvette)

Jennifer Beauvarlet (Université de Bordeaux, INSERM U1218, Bordeaux)

Inhibition of autophagy and ATM in cancer cells switch senescence to apoptosis in response to a G-quadruplex ligand

Cecily Lucas (M2iSH, UMR 1071 Inserm, Clermont-Ferrand)

Autophagy inhibits protumoral effects induced by colibactin-producing colorectal cancer-associated *Escherichia coli*.

Olivia Lenoir (Paris-Centre de Recherche Cardiovasculaire, PARCC, Paris)

Angiotensin II-modulated autophagy in hypertensive nephropathy

Edor Kabashi (Institut du Cerveau et de la Moelle épinière, Paris)

Deciphering the function and mechanisms of C9ORF72 in amyotrophic lateral sclerosis

12h00-14h00 Lunch Break - Poster Session II

14h00-16h45 Session II : PATHOPHYSIOLOGY

Session Chair: **Renaud Legouis** (Institut de Biologie Intégrative de la Cellule, I2BC, Gif-sur-Yvette)

14h00-14h45

Keynote lecture

Dr Malene Hansen

(Sanford-Burnham Med Res Institute, La Jolla, USA)

Title: Cellular recycling: role of autophagy in aging and disease



Session Chairs: **Renaud Legouis** (Institut de Biologie Intégrative de la Cellule, I2BC, Gif-sur-Yvette) ; **Mojgan Djavaheri-Mergny** (Université de Bordeaux, INSERM U1218, Bordeaux)

14.45-15.00 **Coralie Trentesaux** (Institut Cochin, Paris)

Role of autophagy in intestinal stem cell homeostasis

15.00-15.15 **Mario Tschan** (Institute of Pathology, Division of Experimental Pathology, Berne, Switzerland)

Inverse regulation of Chaperone-Mediated Autophagy and non-canonical macroautophagy during retinoic acid therapy of acute myeloid leukemia cells

15.15-15.30 **Fengjuan Wang** (Université de Strasbourg, UPR 3572 Immunopathologie et chimie thérapeutique, Strasbourg)

Targeting autophagy and lysosomal function for autoimmune diseases

15h30-16h00 Coffee Break

Session Chair: **Sylviane Muller** (Institut de Biologie Moléculaire et Cellulaire, IBMC, Strasbourg)

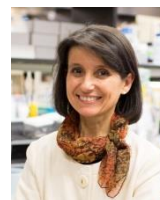
16h00-16h45

Keynote lecture

Dr Ana-Maria Cuervo

(A. Einstein College, New York, USA)

Title: Chaperone-mediated autophagy, beyond cellular cleaning



17.00-18.00 Annual General CFATG Meeting (CFATG Members only)

20h00

Gala Dinner at restaurant Bouillon Racine

3 rue Racine 75006 Paris



Wednesday, November 29th

9h00-12h00 Session III: CANCER

Session Chair: **Beth Levine** (HHMI, Dallas, USA)

9h00-9h45 **Keynote lecture**
Dr Guido Kroemer
(IGR, University Paris Descartes, Villejuif)
Title: Autophagy induction for combating age-associated diseases



Session Chairs: **Svetlana Dokudovskaya** (Institut Gustave Roussy, Villejuif) ; **Patrick Auberger** (Université de Nice Sophia Antipolis, Nice)

09.45-10.00 **Stéphane Rocchi** (Centre Méditerranéen de Médecine Moléculaire, Nice)
New anti-melanoma compounds targeting endoplasmic reticulum stress and autophagy

10.00-10.15 **Lucie Brisson** (Nutrition, croissance et cancer, UMR 1069 Inserm, Tours)
Lactate dehydrogenase B controls lysosome activity and autophagy in cancer

10.15-10.30 **Arnaud Besson** (Centre de Recherches en Cancérologie de Toulouse, CRCT, Toulouse)
Control of Ragulator and mTOR activity by p27 in amino acid deprivation-induced autophagy

10.30-10.45 **Guillaume Robert** (Centre Méditerranéen de Médecine Moléculaire, Nice)
LAMP2 expression dictates azacytidine response and prognosis in MDS/AML

10h45-11h15 Coffee Break

11h15-12h00 Session IV: INFECTION AND IMMUNITY

Session Chairs: **Lucile Espert** (Institut de Recherche en Infectiologie à Montpellier, IRIM, Montpellier) ; **Pierre Lapaquette** (Université de Bourgogne Franche Comté, UMR A PAM, Dijon)

11.15-11.30 **Arnaud Moris** (Centre d'Immunologie et Maladies Infectieuses CIMI, Paris)
Autophagy receptors in the presentation of viral antigens by MHC-II molecules

11.30-11.45 **Laure-Anne Ligeon** (University of Zürich, Zürich, Switzerland)
Molecular mechanisms of LC3-associated phagocytosis during MHC class II presentation

11.45-12.00 **Anaïs Larabi** (M2iSH, UMR 1071 Inserm, Clermont-Ferrand)
Exosomes released from intestinal epithelial cells infected with Crohn's disease-associated adherent-invasive E. coli transfer miRNAs into recipient cells to inhibit autophagy

12h00-14h00 Lunch Break - Poster Session III

14h00-17h00

Session IV: INFECTION AND IMMUNITY

Session Chairs: **Lucile Espert** (Institut de Recherche en Infectiologie à Montpellier, IRIM, Montpellier) ; **Pierre Lapaquette** (Université de Bourgogne Franche Comté, UMR A PAM, Dijon)

14.00-14.15 **Franck Lafont** (Institut Pasteur, Lille)

Involvement of LC3 in the cell response to internal membrane damage

14.15-14.30 **Marianne Dore Hansen** (Faculty of Medicine and Health Sciences, Trondheim, Norway)

Hepatitis C virus triggers Golgi fragmentation and autophagy through the immunity-related GTPase M

14.30-14.45 **Mathieu Clavière** (Centre International de Recherche en Infectiologie, CIRI, Lyon)

Escapement of bacteria from autophagy in virus co-infected cells

14.45-15.00 **Elena Muscolino** (Heinrich Pette Institute, Hamburg, Germany)

Murine cytomegalovirus recruits the retromer complex to promote NEMO degradation by autophagy

15h00-15h30 Coffee Break

Session Chair: **Mathias Faure** (Centre International de Recherche en Infectiologie, CIRI, Lyon)

15h30-16h15 Keynote lecture

Dr Christian Münz

(University of Zürich, Switzerland)

Title: Autophagy proteins in endocytosis and exocytosis



16.15-16.30 Closing ceremony and final remarks

16h30-16h45 Awards: best « short talk », best « poster » and best « flash talk »

16h45 End of meeting