

TRANSAUTOPHAGY

European Network for Multidisciplinary Research on Autophagy

Quarterly Newsletter - Spring 2018 -

<http://cost-transautophagy.eu/>



Words from the Management Committee

- TRANSAUTOPHAGY presentations at: *XI Annual Meeting CIBERER*, March 2018, Castelldefels, ES (M. Moran);



◀ *LS2 Annual Meeting*, February 2018, Lausanne, CH. (M. Tschan);

Gordon Research Conference, March 2018, Lucca, IT. (C. Vindis & J. Murray) ▶



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Publications/Videos

Special issue from COST TRANSAUTOPHAGY members:

- Oxidative Medicine and Cellular Longevity:
Transautophagy: Research and Translation of Autophagy Knowledge.
- Journal of Experimental Botany (Issue 6): *Plant Autophagy: Mechanisms and Functions.*



Other reviews from COST TRANSAUTOPHAGY members in winter 2018:

- Multiscale and multimodal approaches to study autophagy in model plants.* Cells
- Autophagy in stem cells: repair, remodelling and metabolic reprogramming.* Development
- Genetic aberrations in macroautophagy genes leading to diseases.* Biochim Biophys Acta
- Targeting autophagy for the treatment of cancer.* Biol Chem • *Membrane trafficking in autophagy.* Int Rev Cell Mol Biol

Webinar from COST TRANSAUTOPHAGY member:

- Patrice Codogno (INSERM/INEM, Paris, FR): *To watch*



PhD/Postdoc/Job opportunities

- Center for Research on Inflammation, S. Lotersztajn Laboratory, Paris, FR
Postdoc: *Role of autophagy in immune cells during chronic liver diseases.* Contact: sophie.lotersztajn@inserm.fr
- Centre d'Immunologie de Marseille-Luminy, P. Pierre Laboratory, Marseille, FR
Postdoc, PhD: *Autophagy, ER stress and immunity.* Contacts: pierre@ciml.univ-mrs.fr; gatti@ciml.univ-mrs.fr



Upcoming Autophagy Meetings/Workshops

COST TRANSAUTOPHAGY as co-organizer:

- 3-7 June 2018, Warwickshire, UK. *83rd Harden conference: Autophagy - from Molecules to Disease II.*
Co-organized with the Biochemical Society
- 5-8 August 2018, Montpellier, FR. WG3 annual meeting at: *12th Congress of the International Plant Molecular Biology.*
- 4-7 September 2018, Vienna, AT. *21st European Network of Plant Endomembrane Research.*
Co-organized with University of Natural Resources and Applied Life Sciences, and Gregor Mendel Institute



Other autophagy meeting open for registration:

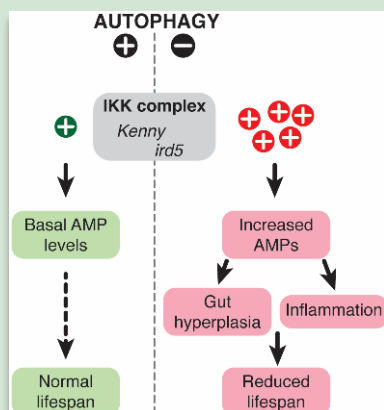
- *2nd Frankfurt Conference on Quality Control in Life Processes and 8th International p63/p73 Workshop.* Frankfurt, DE



Discovery/Training

Kenny mediates selective autophagic degradation of the IKK complex to control innate immune responses

Nat Commun. 2017, 8:1264

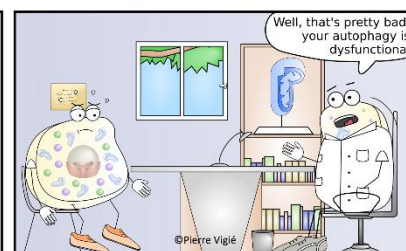
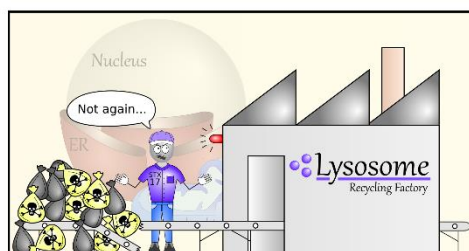
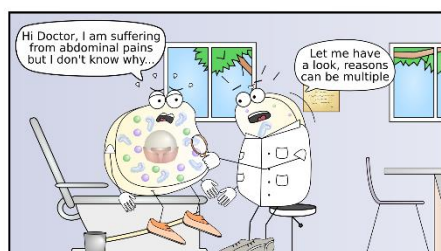


Principal Investigator: I. Nezis (University of Warwick, UK)

Collaboration with COST TRANSAUTOPHAGY member: T. Johansen (Tromsø, NO)

First authors: Radu Tusco (PhD student) and Anne Claire Jacomin (Postdoc)

One of the phenotypic hallmarks of ageing cells is chronic, systemic inflammation in the absence of any apparent infection, and is a significant risk factor for mortality in the elderly. We discovered that a protein called Kenny, which participates in the control of inflammation, is selectively degraded by autophagy. We used the fruit fly *Drosophila melanogaster* as a genetically modifiable model organism to understand at the molecular level how selective autophagy regulates inflammation. These mechanisms are very similar between fruit flies and humans, so the results will have direct relevance to human health.



Comic courtesy of Pierre Vigie (PhD student, Supervisor: N. Camougrand, IBGC, Bordeaux, FR)

To be continued