

The First International Symposium on Immunology and Tissue Regeneration in Okayama / 12th URA International Seminar

DATE OCTOBER 24th, 2018; TIME 14:00- 18:10

VENUE AT JUNKO FUKUTAKE HALL (J HALL) AT OKAYAMA UNIV. SHIKATA-CAMPUS

HTTP://J-HALL.MED.OKAYAMA-U.AC.JP

LUPUS: a challenging world-wide disease

I - Dysregulation of autophagy plays a mechanistic role in the pathogenesis of Lupus

Professor Sylviane Muller, Strasbourg University and CNRS – France



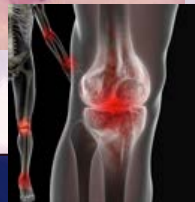
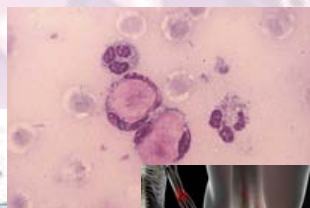
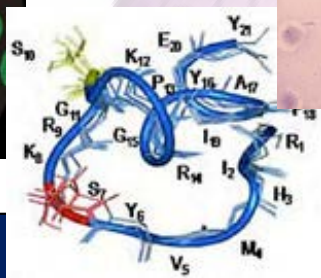
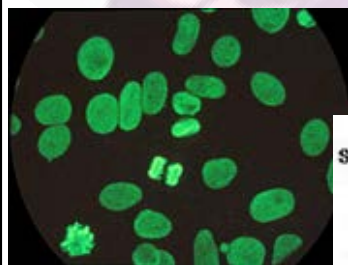
ABSTRACT

Autophagy is a catabolic process consisting in the formation of cytoplasmic vacuoles, fusing with lysosomes and leading to the degradation of their content. Part of the autophagy machinery is also involved in specialized forms of endocytosis and vesicle trafficking.

Nowadays, the role of autophagy, initially just described as a response to energetic stress, has been extended to other stress signals like tissue damage and infection. Autophagy is deeply involved in the regulation of inflammation and in the biology of immune cells. If unrestricted, inflammation can become chronic and be the source of autoinflammatory and autoimmune pathologies.

Dysregulation of autophagy processes have been shown, or claimed, to be central in a number of autoimmune diseases, such as Crohn's diseases, rheumatoid arthritis, systemic lupus erythematosus and multiple sclerosis. Our recent data show that while dispensable for B cell development, autophagy plays major roles in plasma cell survival and long-term autoantibody secretion.

This presentation will describe the alterations of autophagy processes occurring in the lupus context and explain how these findings open novel avenues of therapeutic intervention.



【Inquiry】

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Chair of Therapeutic Immunology

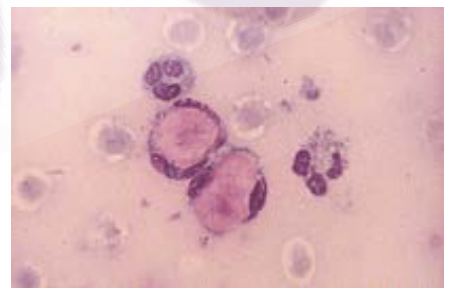
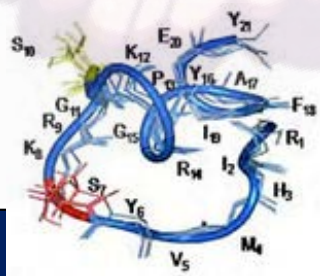
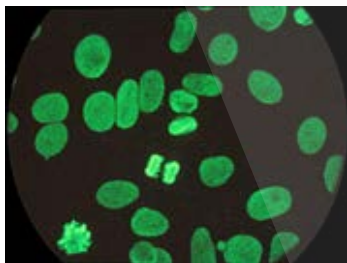
Sylviane Muller is a research director at CNRS. From 2001 to 2017 she headed the CNRS Laboratory of Therapeutic Immunology and Chemistry at the Institute of Molecular and Cellular Biology in Strasbourg (IBMC). She earned her doctorate in Sciences at the University of Strasbourg and was a postdoctoral researcher in Freiburg (Germany) at the Max-Planck Institute for Immunobiology. Her field of expertise covers autoimmunity, immuno-peptides and synthetic vaccines. Her team studies the molecular and cellular bases of the normal immune response and dysfunction, to find novel therapeutic approaches to treat autoimmune, tumoral and infectious diseases. With her team, she has discovered and patented a molecule capable of correcting the immune system in an autoimmune disease, systemic lupus erythematosus, for which no specific treatment currently exists. She was awarded the Silver Medal of CNRS (2010).

Professor Muller holds 24 patents and has published more than 330 publications and review articles/chapters. She was one of the founders of the companies Neosystem (today Polypeptide France) and ImmuPharma. With many patents and the creation of two companies, society benefits from tangible benefits of her lab's research.

On 10 June 2015, Sylviane Muller received the CNRS Innovation Medal 2015, a prestigious award recognizing individuals whose outstanding research leads to breakthrough innovations in terms of technological, medical and societal applications.

In the USIAS Board, Professor Muller holds the position of Secretary of the Board, supporting the Director in representation and in strategic decision-making.

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