



中法生命科学和基因组研究中心

Pôle Sino-Français de Recherches en Sciences du Vivant et Génomique

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## Conference by Prof. Jacques SAMARUT

Director of « Ecole Normale Supérieure de Lyon (ENS) »

Lyon, France

On Monday, May 18<sup>th</sup> at 4:00 pm



### **“From molecular endocrinology to oncogenesis: the model of signaling through thyroid hormone receptors”**

Thyroid hormone controls many aspects of development and physiology in young and adult vertebrates. Thyroid hormone acts through its binding to nuclear receptors which are transcription factors. Two isotypes of thyroid hormone receptors have been identified. The generation of mutant mice deprived of specific thyroid hormone isotypes has revealed specific roles of these respective isotypes. These knock-out models have also revealed so far unknown roles of thyroid hormone in physiologic and developmental processes. Among these is the development of the intestine epithelium in young mice. The alpha isotype of thyroid hormone receptor directly controls the proliferation of intestine epithelial progenitor cells through the transcriptional activation of specific genes. Alteration of the function of this receptor in intestine epithelial cells can contribute to oncogenic development. The processes described in the mouse model have led to the identification of the role of this receptor in the development of some human colon tumors.

SINO – FRENCH RESEARCH CENTER FOR LIFE SCIENCES AND GENOMICS

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## 中法生命科学和基因组研究中心

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#### Short C.V. of Professor Jacques SAMARUT

##### **Education:**

1971-1975: graduate studies in biology at the Claude Bernard University of Lyon, France

1975: Ph.D. from the Claude Bernard University of Lyon, France

1980 : Habilitation (Biology) Claude Bernard University of Lyon, France

##### **Professional Experience:**

1981-1982: Associate Professor at the Rockefeller University, New York, USA (Laboratory of Professor H. Hanafusa)

1982-1987: research group leader in CNRS Laboratory of Biology, Lyon, France

1985 (three months): Invited Professor, Institute of Medical Science, Tokyo

1987-1991: CNRS research group leader at the Ecole Normale Supérieure de Lyon, France

1991-1997: Research Director at CNRS and Director of the Department of Molecular and Cellular Biology, Ecole Normale Supérieure de Lyon, France

1997-1999: Director of Life Science Section of the CNRS, Paris, France

1999- 2005: Director of the Genome Center, Ecole Normale Supérieure, Lyon, France

2005-2008: Deputy Director of Ecole Normale Supérieure de Lyon

Since 2008 : Director of Ecole Normale Supérieure de Lyon

##### **Academic activities:**

Since 2001: Professor of Biochemistry at the Faculty of Medicine, University of Lyon.

##### **Awards:**

Nakasone Gann Program Fellowship (Japan, 1985)

Leukemia award of the French League against Cancer (1987)

Rosen Award Foundation for Medical Research, Paris (1990)

EMBO Member (1996)

Silver Medal of CNRS (1997)

Chevalier de l'Ordre National du Mérite (2004)

Chevalier de la Légion d'Honneur (2008)

##### **Journal reviewer:**

EMBO Journal, PNAS, Nature, Oncogene, Journal of Clinical Investigation, Developmental Biology, Development, Molecular Endocrinology (USA, associate editor 2002-2008), Cancer Science (Japan, associate editor since 2006), Cell Research (China, associate editor since 2006).

##### **Scientific developments**

More than 160 research papers

Five international patents

Co-founder of three biotech companies (ESGS, Genoway, Vivalis)

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