

Pierre CHAMBON

Title: Professor

Field of expertise: Molecular Biology and Genetics. Functional genetics in mammals. Control of transcription

Birth date: 07-02-1931

Nationality: French

Professional address: IGBMC 1, rue Laurent Fries 67400 ILLKIRCH

Present and previous positions, academic or hospital appointments:

- 1956 1961** Research Assistant, Institut de Chimie Biologique, Medical School, Strasbourg
- 1962 1966** Associate Professor same institution
- 1966 1967** Sabbatical year, sponsored by the International Union against Cancer, at Stanford University Medical School (Dept. Biochemistry / Prof. A. Kornberg).
- 1968 1991** Professor of Biochemistry, Institut de Chimie Biologique, Faculté de Médecine, Strasbourg.
- 1992-1993** Professor at the Institut Universitaire de France, Faculté de Médecine, Université Louis Pasteur (ULP), Strasbourg
- November 1993 to August 2002** Professor at the Collège de France - Paris
- September 2002** Honorary Professor at the Collège de France, Paris and Professor emeritus at the Faculté de Médecine, ULP, Strasbourg

Research Responsibilities and Administration:

Director of the Laboratoire de Génétique Moléculaire des Eucaryotes (LGME) of the CNRS (Centre National de la Recherche Scientifique) from May 1st, 1977 to August 2002

Director of the Unité 184 de Biologie Moléculaire et de Génie Génétique of the INSERM (Institut National de la Santé et de la Recherche Médicale) from September 1st, 1978 to August 2002

Founder and Director of the Institut de Génétique et de Biologie Moléculaire et Cellulaire (IGBMC), CNRS/INSERM/ Université Louis Pasteur/ Collège de France, from September 15th, 1994 to August 2002. Director emeritus since September 1st, 2002

Founder and Director of the Institut Clinique de la Souris (ICS ; Centre de Ressources du CNRG-Génopole de Strasbourg) from June 2002 to February 2006. Director emeritus since February 2006

Group leader at the IGBMC since March 2006

Chairman of the Conseil Scientifique du Programme National de la Génomique (1999-2002)

Director of the Génopole Strasbourg Alsace-Lorraine, 1999-2007

10 main articles:

- S. Green, P. Walter, V. Kumar, A. Krust, J.M. Bornert, P. Argos, and P. Chambon. Human oestrogen cDNA: sequence, expression, and homology to v-erb-A. *Nature* 320:134-139, 1986.
- M. Petkovich, N.J. Brand, A. Krust, and P. Chambon. A human retinoic acid receptor which belongs to the family of nuclear receptors. *Nature* 330:444-450, 1987.
- V. Kumar, S. Green, G. Stack, M. Berry, J.R. Jin and P. Chambon. Functional domains of the human estrogen receptor. *Cell* 51: 941-951, 1987.
- M. Leid, P. Kastner, R. Lyons, H. Nakshatri, M. Saunders, T. Zacharewski, J.Y. Chen, A. Staub, J.M. Garnier, S. Mader, and P. Chambon. Purification, cloning, and RXR identity of the HeLa cell factor with which RAR or TR heterodimerizes to bind target sequences efficiently. *Cell* 68:377-395, 1992.
- W. Bourguet, M. Ruff, P. Chambon, H. Gronemeyer, and D. Moras. Crystal structure of the ligand binding domain of the human receptor RXR α . *Nature* 375:377-382, 1995.
- S. Kato, H. Endoh, T. Masuhiro, T. Kitamoto, S. Uchiyama, H. Sasaki, S. Masushige, Y. Gotoh, E. Nishida, H. Kawashima, D. Metzger, and P. Chambon. Activation of the estrogen receptor through phosphorylation by mitogen-activated protein kinase. *Science* 270:1491-1494, 1995.
- D. Metzger, A. Indra, M. Li, B. Chapellier, C. Calleja, N.B. Ghyselinck and P. Chambon. Targeted conditional somatic mutagenesis in the mouse: temporally-controlled knock out of retinoid receptors in epidermal keratinocytes. *Methods in Enzymology* (2003) 364, 379-408.
- M. Li, P. Hener, Z. Zhang, S. Kato, D. Metzger and P. Chambon. Topical vitamin D3 and low-calcemic analogs induce thymic stromal lymphopoietin in mouse keratinocytes and trigger an atopic dermatitis. *Proc. Natl. Acad. Sci. USA* (2006) 103, 11736-11741.
- C. Calleja, N. Messaddeq, B. Chapellier, H. Yang, W. Krezel, M. Li, D. Metzger, B. Mascrez, K. Ohta, H. Kagechika, Y. Endo, M. Mark, N.B. Ghyselinck and P. Chambon. Genetic and pharmacological evidence that a retinoic acid cannot be the RXR-activating ligand in mouse epidermis keratinocytes. *Genes and Dev.* (2006) 20, 1525-1538.
- P. Chambon. How I became one of the fathers of a superfamily. Albert Lasker Basic Medical Research Award. *Nature Medicine* 10:1027-1031, 2004.