

**Claudine Junien**

**Born 280444,  
married,  
2 children.**

**Present Address :**

Biologie du Développement et Reproduction (Developmental  
Biology and Reproduction) UMR INRA-ENVA-CNRS 1198 BDR,  
Domaine de Vilvert, Batiment 231 F-78352 Jouy en Josas  
<http://www.jouy.inra.fr>  
claudine.junien@jouy.inra.fr

**University Education**

PharmD, PhD. Biochemistry, Genetics.

**Postdoctoral training (1982)**

Department of Biochemistry, Rutgers University (NJ, USA)

**Past and Current position**University:

Full professor of Genetics (1988): University Paris V, and University Versailles Saint Quentin, School of Medicine Faculty Paris Ile-de-France Ouest, and Assistance Publique-Hôpitaux de Paris. Responsible for Teaching of Medical and Molecular Genetics, & of Human and Social Sciences and Bioethics in Medical School

Research:

**Director of Inserm Unit 383** "Genetics, Chromosome and cancer (1994-2005),

**Co-director of Inserm unit 781 (2006-2009)** Genetics and epigenetics of metabolic diseases, neurosensory diseases and development at Hôpital Necker-Enfants Malades, Paris, France.

**Group Leader** (2009-) at Inra-Bdr, Jouy en Josas, France

Coordinator of several research grants;

Hospital:

Creation and Head of the Molecular Diagnosis Department in Hospital Ambroise Paré : prenatal diagnosis of hereditary disorders 1983. Creation (1994) and National Coordinator of the DES of Genetics;

Administrative responsibilities/research evaluation:

Member of several Scientific Committees (Inserm, CSS1, Inra, AERES), and member/vice president of the Bioethics Committee of Inserm. Charities (AFM, FRM, LNNC, ARC) & Societies. Expert for several Agro-food companies. IFN (Institut Français pour la Nutrition) President of scientific committee..

**Distinctions**

Chevalier de l'Ordre National du Mérite (1995), Chevalier de la Légion d'Honneur (2000).

**Research:**

As head of a research group (1984) and then head of an Inserm research unit (1994), "Genetics, Chromosome and Cancer », C. Junien has initiated and developed on-going innovative research in several complex aspects of molecular genetics starting by gene mapping and positional cloning approaches for monogenic disorders associated with cancer predisposition (Wilms tumor), genomic imprinting (Beckwith-Wiedemann syndrome, neonatal diabetes), triplet repeat expansions (myotonic dystrophy), and metabolic disorders (hypercholesterolemia, neonatal hyperinsulinism). More recently she became involved in the multifaceted field of gene-environment interactions in the pharmacogenetics - nutrigenetics and nutrigenomics field (renal cell carcinoma, follicular lymphoma and cardiovascular disorders).

C Junien is currently Group leader on "nutritional epigenomics of metabolic syndrome" at BDR Inra. C. Junien's group new goal is to unravel the molecular bases of epigenetic programming and inheritance of the metabolic syndrome, obesity and type 2 diabetes : the new field of "nutritional epigenomics of metabolic syndrome". This led to the development of mice models of developmental programming - under different dietary schemes - gene expression analyses and epigenetic patterns characterization together with a "human placenta network" based on different cohorts covering the pathophysiological spectrum leading to obesity in adulthood. The ways in which epigenetic modifications fix the effects of early environmental events, in a sexually dimorphic manner, ensuring sustained responses to transient stimuli, which result into modified gene expression patterns and phenotypes later in life, represent our main interest. Identifying the original key marks and their changes throughout development, in the target tissues, during an individual's lifetime or over several generations, remains a challenging issue. The goal is to identify dietary signatures and epigenetic signatures that could be used as diagnostic and prognostic markers for nutritional interventions. A total of 14 PhD theses were directed by C. Junien. Grants were obtained from public fundings agencies (INRA, ATC- INSERM, PRNH, FRM, INSERM, ANR, OSEO-All), private associations (FCA, AFD, AFERO, I.B. Delessert) & Drug/food Industries (Fournier, Nestlé, Danone).

C. Junien is the author of 239 publications (Pubmed) in peer reviewed journals, and of Book/book-chapters, reviews & Expertise Collective Inserm. For 2006-2009, C. Junien has been invited by 102 Meetings/Organisations/Conference to give a conference on the themes developed and, for 41 courses in France and abroad. She was invited to participate in the organization of International conferences and to chair/cochair: IASO Stock Conference 2006 Bangkok, Pennington Clinical Nutrition Research Center in Baton Rouge, US, NIH /NIDDK 2008 Bethesda US, SFG/SFGH Pasteur Institute Paris, the ESPE Child health and Epigenetics 2009 Goteborg Sweden.