

CURRICULUM VITAE

ROUGEOT Catherine

SPECIALITY: BIOCHEMISTRY & PHYSIO-PHARMACOLOGY OF PEPTIDE MEDIATORS

PERSONAL INFORMATION

Name: Catherine Rougeot

Birth date: December 15, 1949

Nationality: French

Professional address:

Laboratoire de R&D en pharmacologie des Régulations Neuro-endocrines
Département de Biologie Structurale et Chimie
Institut Pasteur, 75724 Paris Cedex 15

EDUCATION

1999 “Habilitation à Diriger les Recherches” - University P. & M. Curie Paris VI.

1990 “Thèse de Doctorat ” - University Paris VI (PhD degree).

Speciality: Neurobiology & Pharmacology.

1987 “DEA de Physiologie du Développement” - University Paris VI

(Master’s degree).

Speciality: Genetic, Immunology, Embryology, Metabolism & Endocrinology.

1986 “Maîtrise de Biochimie” - University Paris VI.

Speciality: Immunology, Endocrinology, Nutrition & Physiology.

RESEARCH POSITION AND EXPERIENCE

2002 - present: Chef de laboratoire, DR-Institut Pasteur. Head of the R&D laboratory of Pharmacology of Neuro-endocrine Régulations.

Biochemistry and Pharmaco-chemistry: Research program of the group is focused on exploration of the physiological properties of the first endogenous inhibitor of membrane-anchored NeutralEndoPeptidase (NEP/Enkephalinase) activities, identified to date in rat and named sialorphin; and on the molecular characterization of its mimetic derivatives, including sialorphin-homologous endogenous NEP-inhibitor, in human.

1992 - 2001: Chargé de recherche, CR-Institut Pasteur. Unité de Génétique et Biochimie du Développement (I.P. / CNRS 1960). Head of Unit: Professor F. Rougeon.

Inverse Pharmacology: Integrative post-genomic approach. From the characterization of a gene encoding a novel prohormone to the characterization of systemic mature peptide receptor sites, in vivo. Evidence for a CST-SMG-specific peptide mediator (SMR1-QHNPR) involved in nociceptive, mineral homeostatic and inflammatory cardiovascular responses, in rodents.

1986 -1991: Ingénieur de Recherche-Institut Pasteur. Unité de Pharmacologie des Médiateurs Lipidiques (I.P./ INSERM U207). Head of Unit: Professor F. Dray.

NeuroImmunoEndocrinology: Integrative pharmacological approach. Role of lipid and

peptide mediators of the inflammatory response in the neuroendocrine secretory activities, in conscious rats: Evidence for a bi-directional communication between the immune and the neuroendocrine systems.

Animal experimentation: “autorisation ministérielle n°01646-2596”(conscious and anesthetized rodents).

SUPERVISORY FUNCTION

M. Desclaux « DEA Biologie & Productions Animales » Univ. Rennes 1 & ENSAR (2003)

Vincent Charpentier: “DESS Génie Cellulaire” - University H. Poincaré Nancy I - (2002)

Carla Sibella-Arguelles: “DRUSS” – University Paris VII – Speciality: Biochemistry & Pharmacology (2001)

Anne Pelissier. Master of Biology & Biochemistry – Ecole Normale Supérieure (2000)

Daniel Vial: “Thèse de Doctorat” - University Paris VI” - Speciality Molecular Pharmacology (obtained 1997)

David Fialaire: “DEA d'Endocrinologie et Interactions Cellulaires” - University Paris XI (1998)

Eric Duplus. Master of Biology & Biochemistry – Ecole Normale Supérieure (1995)

Laurent LeDoledec: “DEA de Physiologie de la Reproduction”- University Paris VI (1996)

TEACHING

1985-1999 “Session d'Etudes en Radiobiologie” & “DESS de Radio-Pharmacie”, INSTN, CEA-Saclay, 91. Gif / Yvette.

Conferences and practice sessions

MAJOR PUBLICATIONS & PATENTS (since 1990)

M. MESSAOUDI , D. DESOR, A. NEJDI, AND C. ROUGEOT. The endogenous androgen-regulated sialorphin modulates male rat sexual behavior. **Hormones & Behavior**. 2004. 46: 684-691

C. ROUGEOT. From the gene to candidate drug. The discovery of sialorphin using inverse pharmacology. **BIOforum Europe**. 2004. 5; 52-55.

ROUGEOT C. *et al.* DI 2003-112. **PCT-EP** 04290754.3 (deposited on March 2004). Peptides derived from human BPLP protein, polynucleotides coding for said peptides and antibodies directed against said peptides.

C. ROUGEOT, *et al.* Sialorphin, a natural inhibitor of membrane-bound neutral endopeptidase that displays analgesic activity. **Proc. Natl. Acad. Sci. USA**, 2003, 100 (14): 8549-8554.

C. ROUGEOT *et al.* **PCT-EP** 004036703 (2000). New therapeutic uses of SMR1 peptides. 01985936.2-2107-IBO102819 (extension deposited on 24-12-01 and edited on 25-07-2003).

C. ROUGEOT, *et al.* Modulation of SMR1-NEP interactions in CNS disorders giving rise to mental disorders. **PCT-EP** 01985459.5-2107-IBO102818 (extension on 24-12-01 and edition on 25-07-2003).

C. ROUGEOT *et al.* Rodent submandibular gland peptide hormones and other biologically active peptides. **Peptides**. 2000, 21: 443-455.

C. ROUGEOT *et al.* **US PATENT** 00140563 (2000). Therapeutic compositions for the treatment of impaired interpersonal and behavioral disorders.

C. ROUGEOT. Male rat proximal tubule and trabecular bone are primarily targets for the submandibular gland-derived Gln-His-Asn-Pro-Arg peptide. **Gordon Research Conference**. February 23-28, 1997, Ventura California.

C. ROUGEOT *et al.* Targets for SMR1-pentapeptide suggest a link between the circulating peptide and mineral transport. **Am. J. Physiol.** 1997, 273: R1309-R1320

C. ROUGEOT *et al.* **US PROVISIONAL** 08801-405 (1997) **PCT-EP-CA-US** 9800956 (1998). Therapeutic use of the SMR1 protein and the SMR1 maturation products, specifically the QHNPR-Pentapeptide as well as its biologically active derivatives.

C. ROUGEOT *et al.* Selective processing of submandibular rat 1 protein at dibasic cleavage sites. Salivary and bloodstream secretion products. **Eur. J. Biochem.** 1994. 219: 765-773.

C. ROUGEOT *et al.* Intercerebroventricular injection of platelet-activating factor induces secretion of adrenocorticotropin, β -endorphin and corticosterone in conscious rat : a possible link between the immune and nervous systems. **Neuroendocrinology**. 1990, 51; 267-275.

OTHER PROFESSIONAL ACTIVITIES

1995-2000: Scientific Member of the “Commission Consultative de la Valorisation de la Recherche”. Institut Pasteur.

2000-2002: Scientific member of the “Commission des bourses post-doctorales”. Institut Pasteur.

2000-2002: Member of the “Commission d’animalerie”. Institut Pasteur.

2001-2002: Member of the “Mission compétences et mobilité”. Institut Pasteur.

2003: Member of the “Commission de Valorisation”, Institut Pasteur