FRANÇOISE RUSSO-MARIE

Curriculum Vitae

PERSONAL INFORMATION

- Born 15th September 1945
- French Citizen
- Married, 2 Children
- Fluent in French (mother tongue) English and Italian.
- Address UK: Institute of Ophtalmology, Cell Biology Department, UCL, 11-43 Bath Street, EC1V 9EL, London, UK
- Address France: Institut Cochin Cell Biology Department, 22 rue Méchain, F-75014, Paris, France
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EDUCATION

PhD (1984) Biochemistry, Paris 7 University

MD (1971) Paris 7 University (*Internship and residency at Paris Hospitals*)

RESPONSABILITIES & DISTINCTIONS

- President and CEO of Bionexis, 2002-2004
- Award: Chevalier de l'Ordre du Mérite, 2002
- Head of Department, INSERM Research Unit 332, Institut Cochin, 1990-2002
- Visiting Professor, Stanford University, 1989-1990
- Award: Prix de la Fondation pour la Recherche Médicale, 1990
- Silver Medal for the MD defence, 1971

WORK EXPERIENCE

2002- 2004 Bionexis, Saclay and Paris

President and CEO, then CSO

- Development of a multivalent tracer for detecting *in vivo* apoptosis
- Molecular modelling, engineering of a mini protein derived from annexin 5

1990-2002 INSERM U332, Institut Cochin, Paris

Head of Department: signaling, inflammation and cell transformation

- Annexins: structure-fonction relationships (Annexins 1,3, 5 and 8)

1989-1990 Department of Biochemistry Stanford University

Visiting Professor with Pr Dale Kaiser

- Analysis of developmental mutants of *Myxococcus xanthus*
- Development of the first FACS analysis for detecting and sorting developmental mutants in collaboration with L. A. Herzenberg.

1984-1989 Institut Pasteur, Paris

INSERM researcher with Pr B. Boris Vargaftig

- Annexins as inhibitors of phospholipase A2 and anti-inflammatory molecules

1976-1984 Necker Institute, Paris

INSERM researcher with Pr J.L. Funck-Brentano and Pr Philippe Meyer

- Molecular mechanism of action of glucocorticosteroids. Description of Lipocortin 1 in collaboration with Pr Rod J. Flower.

1969-1976 Intern and resident at Paris hospitals

Specialization in Nephrology and Nuclear Medicine

- Clinical practice at various hospitals in Paris

TEACHING EXPERTISE

- Teaching in Master Classes at Paris Universities V, VI, VII
- Supervisor of 20 PhD students while working as a Senior Researcher at INSERM

SELECTED PUBLICATIONS

130 publications referenced in Medline

Over 30 contributions to chapters in books

4 patents: 1998 (1) 2003 (2) 2004 (1)

Selected Publications per Research topic :

1) Inflammation, cell proliferation, glucocorticoids and Annexin A1

Antonicelli F, De Coupade C, Russo-Marie F, Le Garrec Y.CREB is involved in mouse annexin A1 regulation by cAMP and glucocorticoids.
Eur J Biochem. 2001 Jan;268(1):62-9.

Solito E, Romero IA, Marullo S, Russo-Marie F, Weksler BB.. Annexin 1 binds to U937 monocytic cells and inhibits their adhesion to microvascular endothelium: involvement of the alpha 4 beta 1 integrin.
J Immunol. 2000 Aug 1;165(3):1573-81

de Coupade C, Gillet R, Bennoun M, Briand P, Russo-Marie F, Solito E. Annexin 1 expression and phosphorylation are upregulated during liver regeneration and transformation in antithrombin III SV40 T large antigen transgenic mice.
Hepatology. 2000 Feb;31(2):371-80.

Solito E, Raguenes-Nicol C, de Coupade C, Bisagni-Faure A, Russo-Marie F..U937 cells deprived of endogenous annexin 1 demonstrate an increased PLA2 activity.
Br J Pharmacol. 1998 Aug;124(8):1675-83.

Solito E, de Coupade C, Parente L, Flower RJ, Russo-Marie F. IL-6 stimulates annexin 1 expression and translocation and suggests a new biological role as class II acute phase protein.
Cytokine. 1998 Jul;10(7):514-21.

Solito E, de Coupade C, Parente L, Flower RJ, Russo-Marie F. Human annexin 1 is highly expressed during the differentiation of the epithelial cell line A 549: involvement of nuclear factor IL 6 in phorbol ester induction of annexin 1.
Cell Growth Differ. 1998 Apr;9(4):327-36.

Comera C, Russo-Marie F. Glucocorticoid-induced annexin 1 secretion by monocytes and peritoneal leukocytes.
Br J Pharmacol. 1995 Jul;115(6):1043-7.

Comera C, Rothhut B, Russo-Marie F. Identification and characterization of phospholipase A2 inhibitory proteins in human mononuclear cells.
Eur J Biochem. 1990 Feb 22;188(1):139-46.

Rothhut B, Comera C, Cortial S, Haumont PY, Diep Le KH, Cavadore JC, Conard J, Russo-Marie F, Lederer F. A 32 kDa lipocortin from human mononuclear cells appears to be identical with the placental inhibitor of blood coagulation.
Biochem J. 1989 Nov 1;263(3):929-35.

Errasfa M, Russo-Marie F. A purified lipocortin shares the anti-inflammatory effect of glucocorticosteroids in vivo in mice.
Br J Pharmacol. 1989 Aug;97(4):1051-8.

Maridonneau-Parini I, Errasfa M, Russo-Marie F. Inhibition of O2- generation by dexamethasone is mimicked by lipocortin I in alveolar macrophages.
J Clin Invest. 1989 Jun;83(6):1936-40.

Fradin A, Rothhut B, Poincelot-Canton B, Errasfa M, Russo-Marie F.Inhibition of eicosanoid and PAF formation by dexamethasone in rat inflammatory polymorphonuclear neutrophils may implicate lipocortin 's'.
Biochim Biophys Acta. 1988 Nov 25;963(2):248-57.

Rothhut B, Comera C, Prieur B, Errasfa M, Minassian G, Russo-Marie F. Purification and characterization of a 32-kDa phospholipase A2 inhibitory protein (lipocortin) from human peripheral blood mononuclear cells.
FEBS Lett. 1987 Jul 13;219(1):169-75.

Grunfeld JP, Eloy L, Araujo A, Russo-Marie F. Effects of gluco- and antiglucocorticoids on renal and aortic prostaglandin synthesis.
Am J Physiol. 1986 Nov;251(5 Pt 2):F810-6.

Di Rosa M, Flower RJ, Hirata F, Parente L, Russo-Marie F. Anti-phospholipase proteins.
Prostaglandins. 1984 Oct;28(4):441-2. No abstract available.

Rothhut B, Russo-Marie F, Wood J, DiRosa M, Flower RJ. Further characterization of the glucocorticoid-induced antiphospholipase protein "renocortin".
Biochem Biophys Res Commun. 1983 Dec 28;117(3):878-84.

Cloix JF, Colard O, Rothhut B, Russo-Marie F. Characterization and partial purification of 'renocortins': two polypeptides formed in renal cells causing the anti-phospholipase-like action of glucocorticoids.
Br J Pharmacol. 1983 May;79(1):313-21.

Russo-Marie F, Paing M, Duval D. Involvement of glucocorticoid receptors in steroid-induced inhibition of prostaglandin secretion.
J Biol Chem. 1979 Sep 10;254(17):8498-504. No abstract available

2) Annexins: Structure Function Relationships

Rety S, Sopkova-de Oliveira Santos J, Dreyfuss L, Blondeau K, Hofbauerova K, Raguenes-Nicol C, Kerboeuf D, Renouard M, Russo-Marie F, Lewit-Bentley A. The Crystal Structure of Annexin A8 is Similar to that of Annexin A3.
J Mol Biol. 2005 Feb 4;345(5):1131-9. Epub 2004 Dec 08.

Montaville P, Neumann JM, Russo-Marie F, Ochsenbein F, Sanson A. A new consensus sequence for phosphatidylserine recognition by annexins.
J Biol Chem. 2002 Jul 5;277(27):24684-93. Epub 2002 Apr 10.

Hofmann A, Raguenes-Nicol C, Favier-Perron B, Mesonero J, Huber R, Russo-Marie F, Lewit-Bentley A.. The annexin A3-membrane interaction is modulated by an N-terminal tryptophan.
Biochemistry. 2000 Jul 4;39(26):7712-21.

Rety S, Osterloh D, Arie JP, Tabaries S, Seeman J, Russo-Marie F, Gerke V, Lewit-Bentley A. Structural basis of the Ca(2+)-dependent association between S100C (S100A11) and its target, the N-terminal part of annexin I

Structure Fold Des. 2000 Feb 15;8(2):175-84.

Rety S, Sopkova J, Renouard M, Osterloh D, Gerke V, Tabaries S, Russo-Marie F,

Lewit-Bentley A. The crystal structure of a complex of p11 with the annexin II N-terminal peptide.
Nat Struct Biol. 1999 Jan;6(1):89-95.

Cordier-Ochsenbein F, Guerois R, Russo-Marie F, Neumann JM, Sanson A.. Exploring the folding pathways of annexin I, a multidomain protein. II. Hierarchy in domain folding propensities may govern the folding process.
J Mol Biol. 1998 Jun 26;279(5):1177-85.

Cordier-Ochsenbein F, Guerois R, Baleux F, Huynh-Dinh T, Lirsac PN, Russo-Marie F, Neumann JM, Sanson A. Exploring the folding pathways of annexin I, a multidomain protein. I. non-native structures stabilize the partially folded state of the isolated domain 2 of annexin I.
J Mol Biol. 1998 Jun 26;279(5):1163-75.

Perron B, Lewit-Bentley A, Geny B, Russo-Marie F. Can enzymatic activity, or otherwise, be inferred from structural studies of annexin III?
J Biol Chem. 1997 Apr 25;272(17):11321-6.

Favier-Perron B, Lewit-Bentley A, Russo-Marie F. The high-resolution crystal structure of human annexin III shows subtle differences with annexin V.
Biochemistry. 1996 Feb 13;35(6):1740-4.

3) Signalling

Dubois T, Mira JP, Feliers D, Solito E, Russo-Marie F, Oudinet JP. Annexin V inhibits protein kinase C activity via a mechanism of phospholipid sequestration.
Biochem J. 1998 Mar 15;330 (Pt 3):1277-82.

Mira JP, Dubois T, Oudinet JP, Lukowski S, Russo-Marie F, Geny B. Inhibition of cytosolic phospholipase A2 by annexin V in differentiated permeabilized HL-60 cells. Evidence of crucial importance of domain I type II Ca2+-binding site in the mechanism of inhibition.
J Biol Chem. 1997 Apr 18;272(16):10474-82.

Lukowski S, Lecomte MC, Mira JP, Marin P, Gautero H, Russo-Marie F, Geny B. Inhibition of phospholipase D activity by fodrin. An active role for the cytoskeleton.
J Biol Chem. 1996 Sep 27;271(39):24164-71. Erratum in: J Biol Chem 1996 Dec 13;271(50):32482

Rothhut B, Dubois T, Feliers D, Russo-Marie F, Oudinet JP. Inhibitory effect of annexin V on protein kinase C activity in mesangial cell lysates.
Eur J Biochem. 1995 Sep 15;232(3):865-72.

Dubois T, Oudinet JP, Russo-Marie F, Rothhut B. In vivo and in vitro phosphorylation of annexin II in T cells: potential regulation by annexin V.
Biochem J. 1995 Aug 15;310 (Pt 1):243-8.

Geny B, Paris S, Dubois T, Franco M, Lukowski S, Chardin P, Russo Marie F. A soluble protein negatively regulates phospholipase D activity. Partial purification and characterization.
Eur J Biochem. 1995 Jul 1;231(1):31-9.

Oudinet JP, Russo-Marie F, Cavadore JC, Rothhut B. Protein kinase C-dependent phosphorylation of annexins I and II in mesangial cells.
Biochem J. 1993 May 15;292 (Pt 1):63-8.

Aarsman AJ, Mynbeek G, van den Bosch H, Rothhut B, Prieur B, Comera C, Jordan L, Russo-Marie F. Lipocortin inhibition of extracellular and intracellular phospholipases A2 is substrate concentration dependent.
FEBS Lett. 1987 Jul 13;219(1):176-80.

Touqui L, Rothhut B, Shaw AM, Fradin A, Vargaftig BB, Russo-Marie F.Platelet activation--a role for a 40K anti-phospholipase A2 protein indistinguishable from lipocortin.
Nature. 1986 May 8-14;321(6066):177-80.

4) New techniques

Russo-Marie F, Roederer M, Sager B, Herzenberg LA, Kaiser D. Beta-galactosidase activity in single differentiating bacterial cells.
Proc Natl Acad Sci U S A. 1993 Sep 1;90(17):8194-8.

Radvanyi F, Jordan L, Russo-Marie F, Bon C. A sensitive and continuous fluorometric assay for phospholipase A2 using pyrene-labeled phospholipids in the presence of serum albumin.
Anal Biochem. 1989 Feb 15;177(1):103-9.