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PERSONAL INFORMATION

Date of birth: march 25th, 1971
Place of birth: Bain de Bretagne (France)
Nationality: French

PROFESSIONAL EXPERIENCE

2004-present	Associate Professor, Department of Physiology, University of Burgundy (France), Team "Cancer and adaptive immune response".
2002-2003	Lecturer, Department of Biochemistry, Faculty of Pharmacy, University of Rennes 1 (France).
2000-2002	Postdoctoral Research Associate, Department of Pharmacology, Pharmacia Corp. (Nerviano, Italy).
Apr.-oct. 2000	Postdoctoral Research Associate, Department of Biochemistry and Molecular Pharmacology, New York University School of Medicine (New York, USA).

EDUCATION

1995-1999	PhD thesis in Life Sciences, University of Rennes 1 (France). Thesis: Regulation of hematopoietic function in the liver.
1994-1995	Postgraduate Degree in Cellular and Molecular Biology in Medical Science, with specialization in immunology and molecular genetics, University of Rennes 1 (France).
1992-1994	MSc Degree in Biochemistry, University of Rennes 1 (France).

ACADEMIC RESPONSIBILITIES

2010-present	Coordinator of the Bachelor of Science degree in Cell Biology and
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Physiology, University of Burgundy (France).

2013-present Member of the Life Science Faculty Council and of the Life Science Faculty Research Committee, University of Burgundy (France).

TEACHING EXPERIENCE

Faculty of Life Science, University of Burgundy

2004-present Undergraduate: Cellular and Molecular Physiology.
Graduate: Cancer and Nutrition, Chrononutrition, Cell cycle, Pharmacology.

Faculty of Pharmacy, University of Rennes 1

2002-2003 Graduate: Biochemistry and molecular biology.

GRADUATE SUPERVISION AND EVALUATION

Supervisor of PhD thesis

Oct. 2014-present Adélie Dumont (PhD, Cancer cell biology).
Oct. 2012- dec. 2015 Aurélie Fluckiger (PhD completed). Title: Antitumor effect of docosahexaenoic acid: role of microRNAs and TNF α .
Oct. 2009- dec. 2012 Anne-Sophie Pierre (PhD completed). Title: Monounsaturated fatty acid metabolism and colon cancer cell proliferation.
Nov. 2007- dec. 2015 Méline Minville (PhD completed). Title: Alterations of cell metabolism: monounsaturated fatty acid synthesis pathway as therapeutic target.

PhD thesis Committee Member

2017 Jennifer Allègre-Cultot (PhD completed, University of Burgundy). Title: Regulation of the E2F1 transcription factor regulation by cIAP1.
2016 Sabrina Romagny (PhD completed, University of Burgundy). Title: Antitumor properties of NO: role of S-nitrosylation in signaling pathway induced by TNFR1 and TLR4.
2015 Lucie Chauvin (PhD completed, University of Tours). Title: Signaling pathways involved in breast cancer cell chemosensitization to docetaxel by n-3 polyunsaturated fatty acids .
2014 Ramez Wannous (PhD completed, University of Tours). Title: Inhibition of the nuclear receptor PPARB reduces growth and invasiveness of human breast cancer cells.
2014 Meriem Ghalem (PhD completed, University of Tlemcen). Title: Anti-oxidant and anti-inflammatory effects of *Zizyphus lotus* and *Anthyllis vulneraria* extracts.

Supervisor of Master research projects

Lucine Marotte (2016), Adélie Dumont (2013), Alexis Varin (2011), Styven Njitchouang (2010), Carry Hunter-Smith (2010), Samira Benaggoune -2009), Anne-Sophie Pierre (2008), Thomas Salvary (2006), Mélaïne Minville (2006), Sanah Ullah (2005) Lena Thill (mars- mai 2005).

RESEARCH PROGRAM NETWORK

2014-2017	TASSILI program "Anti-inflammatory effects of natural polyphenolic compounds".
2012-2020	Labex Lipstic "Lipoproteins and health".
2010-2011	ALAVAC Research program (Région Bourgogne/CNIEL).
2008-2011	TASSILI program "Anti-inflammatory effects of natural polyphenolic compounds".

PROFESSIONAL MEMBERSHIP

Member of the National Alimentation Cancer Recherche (NACRe) Network.

Member of the Groupe Lipides et Nutrition (GLN).

EXTERNAL RESEARCH FUNDING AND FELLOWSHIPS

Funding

2016-2017	Ligue contre le Cancer, Research Grant. "Effect of polyunsaturated fatty acids in combination with 5-Fluorouracile on tumor progression".
	Groupe Lipides Nutrition, Research Grant. "Effect of polyunsaturated fatty acids on myeloid-derived suppressor in cancer".
2014-2017	Tassili Program, co-applicant. "Anti-inflammatory effects of natural polyphenolic compounds".
2013-2014	Ligue contre le Cancer, Research Grant. "Role of microRNAs in antitumor effect of docosahexaenoic acid ".
2010-2011	Région Bourgogne, PARI Grant, co-applicant. "Phospholipid metabolism and chemotherapeutic action".
2009-2010	Région Bourgogne, Research Grant, co-applicant. "Trans fatty acids and atherogenesis".
2009-2010	Centre National Interprofessionnel de l'Economie Laitière (CNIEL), Research Grant, co-applicant. "Trans fatty acids and atherogenesis".

Fellowships

2001-2002	Marie Curie Post-doctoral Research Fellowship
1995-1999	Région Bretagne PhD Fellowship

British Journal of Pharmacology, Journal of Lipids, Marine Drugs, Experimental Cell Research, PloS One, International Journal of Food Sciences and Nutrition, Anti-Cancer Agents in Medicinal Chemistry, Journal of Biomedical Science, International Journal of Molecular Sciences, Journal of functional foods, Oncogene.

GRANT REVIEW FOR FUNDING AGENCIES

National Science Centre (Poland), CRITT Santé Bretagne (France)

PUBLICATIONS

Peer-reviewed journals

Zeriouh W, Nani A, Belarbi M, Dumont A, de Rosny C, Aboura I, Ghanemi FZ, Murtaza B, Patoli D, Thomas C, Apetoh L, Rébé C, Delmas D, Khan NA, Ghiringhelli F, Rialland M and Hichami A. Phenolic Extract from Oleaster (*Olea europaea* var. *Sylvestris*) Leaves Reduces Colon Cancer Growth and Induces Caspase-dependent Apoptosis in Colon Cancer Cells via the Mitochondrial Apoptotic Pathway. *Plos One*. 2017 Feb 17;12(2).

Fluckiger A, Dumont A, Derangère V, Rébé C, de ROSNY C, Causse S, Thomas C, Apetoh L, Hichami A, Ghiringhelli F, Rialland M. Inhibition of colon cancer growth by docosahexaenoic acid involves autocrine production of TNF α . *Oncogene*. 2016 Sep 1;35(35):4611-22.

Courtat F, Derangère V, Chevriaux A, Ladoire S, Cotte AK, Arnould L, Boidot R, Rialland M, Ghiringhelli F, Rébé C. Liver X receptor ligand cytotoxicity in colon cancer cells and not in normal colon epithelial cells depends on LXR β subcellular localization. *Oncotarget*. 2015 Sep 29;6(29):26651-62.

Zou Z, Bellenger S, Massey KA, Nicolaou A, Geissler A, Bidu C, Bonnotte B, Pierre AS, Minville-Walz M, Rialland M, Seubert J, Kang JX, Lagrost L, Narce M, Bellenger J. Inhibition of the HER2 pathway by n-3 polyunsaturated fatty acids prevents breast cancer in fat-1 transgenic mice. *J Lipid Res*. 2013 sep 19.

Pierre AS, Minville-Walz M, Fèvre C, Hichami A, Gresti J, Pichon L, Bellenger S, Bellenger J, Ghiringhelli F, Narce M, Rialland M. Trans-10, cis-12 conjugated linoleic acid induced cell death in human colon cancer cells through reactive oxygen species-mediated ER stress. *Biochim Biophys Acta*. 2013 Apr;1831(4):759-68.

Narce M, Bellenger J, Rialland M and Bellenger S. Recent advances on Stearoyl-CoA desaturase regulation in fatty liver diseases. *Current Drug Metabolism*. 2012; 13:1454-63.

Minville-Walz M, Gresti J, Pichon L, Bellenger S, Bellenger J, Narce M, Rialland M. Distinct regulation of stearoyl-CoA desaturase 1 gene expression by cis and trans C18:1 fatty acids in human aortic smooth muscle cells. *Genes Nutr*. 2012 Apr;7(2):209-16.

Podechard N, Tekpli X, Catheline D, Holme JA, Rioux V, Legrand P, Rialland M, Fardel O, Lagadic-Gossmann D, Lecureur V. Mechanisms involved in lipid accumulation and apoptosis induced by 1-nitropyrene in Hepa1c1c7 cells. *Toxicol Lett*. 2011 Oct 30; 206(3):289-299.

Bellenger J, Bellenger S, Bataille A, Massey KA, Nicolaou A, Rialland M, Tessier C, Kang JX, Narce M. High Pancreatic n-3 Fatty Acids Prevent STZ-Induced Diabetes in Fat-1 Mice: Inflammatory Pathway Inhibition. *Diabetes*. 2011 Apr;60(4):1090-9.

Fèvre C, Bellenger S, Pierre AS, Minville M, Bellenger J, Gresti J, Rialland M, Narce M, Tessier C. The metabolic cascade leading to eicosanoid precursors - desaturases, elongases, and phospholipases A(2) - is altered in Zucker fatty rats. *Biochim Biophys Acta*. 2011 Jun;1811(6):409-17.

Minville-Walz M, Pierre AS, Pichon L, Bellenger S, Fèvre C, Bellenger J, Tessier C, Narce M, Rialland M. Inhibition of stearoyl-CoA desaturase 1 expression induces CHOP-dependent cell death in human cancer cells. *PLoS One*. 2010 Dec 16;5(12):e14363.

Skrzypski J, Bellenger S, Bellenger J, Sinclair A, Poisson JP, Tessier C, Rialland M, Narce M. Revisiting delta-6 desaturase regulation by C18 unsaturated fatty acids, depending on the nutritional status. *Biochimie* 2009 Nov-Dec;91(11-12):1443-9.

Mickael Rialland, Francesco Sola and Corrado Santocanale. Essential Role of human CDT1 in DNA replication and chromatin licensing. *J Cell Science* 2002, 115: 1435-1440.

Montagnoli A., Bosotti R., Villa F., Rialland M., Brotherton D., Mercurio C., Berhtelsen J. and Santocanale C. Drf1, a novel regulatory subunit for human Cdc7 kinase. *EMBO J*. 2002, 21(12): 3171-3181.

Ilyin G, Serandour AL, Pigeon C, Rialland M, Glaise D, Guguen-Guillouzo C. A new subfamily of structurally related human F-box proteins. *Gene* 2002, 296 (1-2): 11-20.

Gennady Ilyin, Mickael Rialland, Christelle Pigeon and Christiane Guguen-Guillouzo. CDNA cloning and expression analysis of new members of the mammalian F-box family. *Genomics* 2000, 67: 40-47.

Mickael Rialland, Anne Corlu, Gennady Ilyin, Florian Cabillic, Isabelle Lamy and Christiane Guguen-Guillouzo. Pattern of cytokine expression by rat liver epithelial cells supporting long-term culture of CD34+ umbilical cord blood cells. *Cytokine* 2000, 12 (7): 951-959.

Gennady Ilyin, Mickael Rialland, Denise Glaise and Christiane Guguen-Guillouzo. Identification of a novel skp2-like mammalian protein containing F-box and leucine-rich repeats. *FEBS Letters* 1999, 459: 75-79.

Lamy I, Corlu A, Fardel O, Gandemer V, Rialland M, Leberre C, le Prise PY, Fauchet R, Coulombel L, Guguen-Guillouzo C. Rat liver biliary epithelial cells support long-term production of haemopoietic progenitors from human CD34 cells. *Br J Haematol* 1997 Sep;98(3):560-8

Invited Book Chapters

Les acides gras trans : des acides gras bien singuliers. M. Narce, M. Rialland, M. Minville-Walz, S. Bellenger et J. Bellenger. *Médecine des Maladies Métaboliques*. Volume 5, Issue 3, June 201, Pages 247-251.

Ilyin G, Rescan C, Rialland M, Loyer P, Baffet G, Guguen-Guillouzo C. Growth control and cell cycle progression in cultured hepatocytes. In "The hepatocyte review", Berry MN and Edwards AM (Eds.), Kluwer Academic Publishers, Dordrecht/Boston/London, 2000, pp. 263-280.
