**Curriculum VITAE**

**TRUGNAN Germain, born October 21, 1951; married, 4 children.**

\* 1969-1976 :medical studiesCHU Saint Antoine, Paris VI, MD diploma (1976)

\* 1978 :MasterAnalytical Chemistry, Paris VI

\* 1978-1980 :Post-doctoral positions: CHU Saint Antoine (DrBéréziat) ; Institut Pasteur (Dr F. Dray) ; Collège de France (Pr S. Jard): studies on properties and metabolism of cell lipids (lipoproteins, membrane phospholipids, fatty acids, eicosanoids)

**Research Activities**

My scientific activities are mainly centered on the study of epithelial cells (mainly intestinal cells): differentiation, polarized trafficking and signalization in relation with the structure and the metabolism of membrane proteins and lipids.

\* **1980-1983**: **Chargé de Recherche 2ème classe INSERM**; laboratoire de Biochimie, CHU Saint-Antoine,

**\* 1983-1990: Chargé de Recherche 1ère classe INSERM**; INSERM U178 (Hôpital P. Brousse Villejuif).

**\* 1990-2001: Directeur de Recherche 2ème classe INSERM**(Villejuif, Bichat, Saint-Antoine).

\* **1997-1999**: **Creation and direction of CJF INSERM 96-07**: Molecular signalingof protein targeting in epithelial intestinal cells, CHU Saint Antoine.

**\* 2000-2008**: **Creation and direction of INSERM unit UMR-S 538,**Membrane trafficking and signalization in epithelial cells. CHU Saint Antoine.

**\* 2001-2008: Professeur des Universités-PraticienHospitalier 2èmeclasse.** (Biochemistry-Molecular Biology). University Pierre et Marie Curie, CHU Saint Antoine.

**\* 2008-2014:Professeur des Universités-PraticienHospitalier 1èreclasse.**(Biochemistry - Molecular Biology).

**\* 2014-… :Professeur des Universités-PraticienHospitalierclasseexceptionnelle.** (Biochemistry - Molecular Biology). University Pierre et Marie Curie, CHU Saint Antoine.

\* **2011-2013: Creation and direction of ERL INSERM U1057,** “Microorganisms, Bioactive Moleculesand Intestinal Physiopathology “, team member ofl’UMR 7203 “Laboratoire des BioMolécules“, CNRS-UPMC-ENS.

**Teaching Activities**

\* Responsible for teaching cell biology and biochemistry (first, second and third year of medicine,), Faculty of Medicine Pierre et Marie Curie

\* Responsible of Master teaching units at UPMC for medical students.

\* Responsible ofMaster modules (M1 et M2)for biology“ et “biophysics“ mentions at UPMC.

\* Master and PhD student direction

\* Responsible for permanent formation in confocal microscopy(INSERM and UPMC) (1995-2004).

\* Lecturer since 2003at Saint Joseph University (Beyrouth, Lebanon), since 2005et IVIC (Caracas, Venezuela), since 2008 at the facultyof medicine in N’Djamena (Tchad) and since 2014 at the Scientific and Technologic University of Hanoi (Vietnam).

\* **Director of the doctoral SchooliViv (ex-INTERBIO)** Paris 6, Paris 7, January 2007- December 2013.

**Hospital Activities**

\* **PU-PH, Head of department PM2 (**platformof peptidomics, metabolomicsanddrug measurements), development of lipidomicsand peptidomicsapproaches usingmass spectrometry). 13 spectrometers (1 MALDI-TOF, 7LC-MS, 4 GC-MS, 1 Synapt G2S)

\* **Representativeat AP-HP**for clinical mass spectrometry.

**Responsabilities**

\* **Director of INSERM research Units (CJF 96-07, U538, ERL 1057)**

\* Director of **Cellimaging platform(IFR 65 – UPMC)**

\* Director of**Physics-Chemistry-Biology-Medicine Network** at University Pierre et Marie Curie 2000-2008, then **network RAM (Molecular Analysis Network)**atUPMC since 2008.

\* Elected memberat the scientific council of Faculty of Medicine **Pierre et Marie Curie** 2006-2014

**\* Elected member of the Administration councilof UPMC (2012)**

\* Nominatedat specialist commission 66UPMC (1997-2001)

\* **Elected member section 23 at CNRS (2004-2008)**

**\* Electedmember at Local Medical Committee of the Hospital group GHUEP (since 2012).**

**Expertises**

Expert since 2000 forUniversity and Research Ministry (MESR), INSERM, Regional Councils, ANR (assessmentof several research projects

**Expert for AERES**: section of Research Units and section ofTeaching. Memberand President ofvisiting committees.

***Editorial Board and reviewing***

Member of the Scientific council of « **Médecine/Sciences**» (2002-2008)

Member of the Editorial Board of « **Biology of the Cell**» (2003-2006)

**Reviewer**for several international journals: J. Biol. Chem., J. Clin. Invest., BBA, Eur. J. Biochem., Eur. J. Physiol., Exp. Cell Res., J. Cell Sci. Gut, Virology, J. Virol…

***Organizationof International Congresses***

\* President of the organizingcommitteeconference P. Laudat  “Polarized trafficking in epithelial cells: from fundamental to pathophysiology” (September 2001)

\* Chaimanof symposium "polarity and signaling" International Society of Differentiation (September 2002)

\* Co-organizationof symposium “Imaging the cell” SBCF (April 2003)

\* Chairman symposium "imaging protein interactions" « Regpep » symposium (September 2004)

**Selection ofsignificant contributions**

**Total :156original articleslisted on Web of Science (March 2016). h-factor (March 2016) = 41.**

Quevrain, E; Maubert, M A; Michon, C; Chain, F; Marquant, R; Tailhades, J; Miquel, S; Carlier, L; Bermudez-Humaran, L G; Pigneur, B; Lequin, O; Kharrat, P; Thomas, G; Rainteau, D; Aubry, C; Breyner, N; Afonso, C; Lavielle, S; Grill, J-P; Chassaing, G; Chatel, J M; **Trugnan, G**; Xavier, R; Langella, P; Sokol, H; Seksik, P. Identification of an anti-inflammatoryproteinfromFaecalibacteriumprausnitzii, a commensal bacteriumdeficient in Crohn's disease. **Gut** (2016) 65(3): 415-425

Swiecicki, JM; Thiebaut, F; Di Pisa, M; Gourdin-Bertin, S; Tailhades, J; Mansuy, C ; Burlina, F ; Chwetzoff, S; **Trugnan, G** ; Chassaing, G; Lavielle, S. How to unveil self-quenchedfluorophores and subsequentlymap the subcellular distribution of exogenous peptides. **Scientific Reports** (2016) 6. Article Number: 20237

Duponchel S, Troupin C, Vu LT, Schnuriger A, **Trugnan G**, Garbarg-Chenon A. Transfection of exogenous rotavirus rearranged RNA segments in cells infected with a wild type rotavirus results in subsequent gene rearrangements. **J Gen Virol.2014** Jun 6.pii: [Epub ahead of print]

Meyrand M, Guillot A, Goin M, Furlan S, Armalyte J, Kulakauskas S, Cortes-Perez NG, Thomas G, Chat S, Péchoux C, Dupres V, Hols P, Dufrêne YF, **Trugnan G**, Chapot-Chartier MP. Surface proteome analysis of a natural isolate of Lactococcuslactis reveals the presence of pili able to bind human intestinal epithelial cells. **Mol Cell Proteomics. 2013** Dec;12(12):3935-47

Varyukhina, S, Freitas, M, Bardin, S, Robillard, E, Tavan, E, Sapin, Grill, JP, **Trugnan, G**. Glycan-modifying bacteria-derived soluble factors from Bacteroidesthetaiotaomicron and Lactobacillus casei inhibit rotavirus infection in human intestinal cells ***Microbes and Infection 2012***. 14(3): 273-278

Giarratana MC, Rouard H, Dumont A, Kiger L, Safeukui I, Le Pennec PY, François S, **Trugnan G**, Peyrard T, Marie T, Jolly S, Hebert N, Mazurier C, Mario N, Harmand L, Lapillonne H, Devaux JY, Douay L. Proof of principle for transfusion of in vitro-generated red blood cells. **Blood**. 2011 Nov 10;118(19):5071-9.

Sokol H, Pigneur B, Watterlot L, Lakhdari O, Bermúdez- Humarán LG, Gratadoux JJ, Blugeon S, Bridonneau C, Furet JP, Corthier G, Grangette C, Vasquez N, Pochart P, **Trugnan G**, Thomas G, Blottière HM, Doré J, Marteau P, Seksik P, and Langella P. Faecalibacteriumprausnitzii is an antiinflammatory commensal bacterium identified by microbiota analysis of Crohn's disease patients. ***Proc. Nat. Acad. Sci. USA 2008*** Oct 28;105(43):16731-6

Gardet A, Breton M, **Trugnan G**, Chwetzoff S.A role for actin in the polarized release of rotavirus.***J Virol.*** 2007, 81(9):4892-4.

Delmas O, Breton M, Sapin C, Le Bivic A, Colard O, **Trugnan G.** Heterogeneity of Raft-type membrane microdomains associated with VP4, the rotavirus spike protein, in Caco-2 and MA 104 cells. ***J Virol.*2007** Feb; 81(4):1610-8.

Gardet A., Breton M., Fontanges P., **Trugnan G.**and Chwetzoff S.. The Rotavirus spike protein VP4 binds to and remodels actin bundles of epithelial brush border into actin bodies. ***J. Virol.* 2006** 80(8): 3947-56.

[Broquet AH, Thomas G, Masliah J, **Trugnan G**, Bachelet M.](http://www.ncbi.nlm.nih.gov:80/entrez/query.fcgi?cmd=Retrieve&db=PubMed&list_uids=12682040&dopt=Abstract) Expression of the molecular chaperone Hsp70 in detergent-resistant microdomains correlates with its membrane delivery and release. ***J Biol Chem.* 2003**, 278(24):21601-6.

Sapin C, Colard O, Delmas O, Tessier C, Breton M, Enouf V, Chwetzoff S, Ouanich J, Cohen J, Wolf C, **Trugnan G.** Rafts promote assembly and atypical targeting of a nonenveloped virus, rotavirus, in Caco-2 cells. ***J Virol.* 2002**, 76(9):4591-602.

Freitas M, Cayuela C, Antoine JM, Piller F, Sapin C, **Trugnan G**. A heat labile soluble factor from Bacteroidesthetaiotaomicron VPI-5482 specifically increases the galactosylation pattern of HT29-MTX cells. ***Cell Microbiol.* 2001**, (5):289-300.

Charpilienne A, Nejmeddine M, Berois M, Parez N, Neumann E, Hewat E, **Trugnan G**, Cohen J. Individual rotavirus-like particles containing 120 molecules of fluorescent protein are visible in living cells. ***J Biol Chem.* 2001**, 276(31):29361-7.

Jourdan N, Maurice M, Delautier D, Quero AM, Servin AL, **Trugnan G**. Rotavirus is released from the apical surface of cultured human intestinal cells through a non conventional vesicular transport that bypass the Golgi apparatus. ***J. Virol.*1997**,71:8268-8278.

Darmoul D, Lacasa M, Baricault L, Marguet D, Sapin C, Trotot P, **Trugnan G**. Dipeptidylpeptidase IV (DPP IV,CD26) gene expression in enterocyte-like colon cancer cell lines HT-29 and Caco-2. Cloning of the complete human coding sequence and changes of DPP IV mRNA levels during cell differentiation. ***J BiolChem,* 1992**, 267: 4824-4833.

**Trugnan G**, Rousset M, Chantret I, Barbat A, Zweibaum A. The posttranslational processing of sucrase-isomaltase in HT-29 cells is a function of their state of enterocytic differentiation. ***J Cell Biol,* 1987**, 104: 1199-1205.

**World Patent (2014) (1)**New polypeptide useful for treating or preventing inflammatory diseases e.g. inflammatory bowel disease, e.g. enteritis, comprising or consisting of specified amino acid sequence, and conservative derivative or its fragment. Patent Number(s): WO2014102009-A1 ; EP2749289-A1 ; EP2938353-A1 ; US2015335705-A1

**(2)**withDanone-VitapoleCompany (2006) on "Glycan modulating properties of probiotics in human intestinal cells."