



Curriculum Vitae

Personal information **Sandrine Tinton**

Work experience

1. Employer: AFMPS (Federal Agency for Medicines and Health Products)
 - Start date: 122010
 - End date:
 - Position: Non_clinical assessor
 - Activities: Assessment of the non_clinical data for national, MRP, DCP and CP marketing authorization applications of human medicines. Assessment of the non_clinical data for national and EU clinical trial applications. As a non_clinical safety member of the multidisciplinary CHMP drafting group on nanomedicines, preparing proposals and providing input for several reflection papers on nanomedicines, in particular on block copolymer micelle medicinal products.
 - Country: Belgium
2. Employer: AFMPS (Federal Agency for Medicines and Health Products)
 - Start date: 082007
 - End date: 112010
 - Position: File Manager
 - Activities: Follow up of the requests for authorization of clinical trials, VHP, compassionate uses and medical need programs
 - Country: Belgium
3. Employer: ULB_Erasmus Hospital_Dept. of Pathology (Brussels)
 - Start date: 052006
 - End date: 052007
 - Position: Senior scientist
 - Activities: Research project: Identification and development of new diagnostic and prognostic markers in the field of cancer biology –Study on the involvement of galectin_3 in the response of colon cancer cells to pro_inflammatory stimuli. Main tasks: Laboratory work: analysis of the effect of inflammatory stimuli (LPS, TNF, IL_1) on the expression of various galectins in vitro (cell culture & fractionation, cell transfection, RT_PCR, fluorescence microscopy, elisa, western blotting) Other tasks: Publication of results, Activity Reports, Oral presentations of project results
 - Country: Belgium
4. Employer: B&C International (Clinical Research Organisation, Wavre)
 - Start date: 072004
 - End date: 042006
 - Position: Project manager
 - Activities: Management of sample kits supply, samples transport and storage for clinical trials Main tasks: Initiation and management of Customer Clinical Trial/Project in terms of budget, planning and quality, from signed Agreement to Project termination. Design and writing of Clinical Trials/Project specific documents based on Customer Agreement. Assistance and support of the Business Development executive
 - Country: Belgium
5. Employer: RUG _ Dept for Molecular Biomedical Research (DMBR), VIB_Universiteit Gent
 - Start date: 051999
 - End date: 022004
 - Position: Senior scientist
 - Activities: Research project: Study on the mechanisms involved in the activation of the internal ribosome entry site (IRES) of the cyclin_dependent protein kinase PITSLRE during cell cycle progression. Main tasks: Laboratory work: identification of RNA_binding protein by UV cross_linking assays and immunoprecipitation, cell culture and transfection, preparation of competent cell extracts for in vitro translation assays, plasmid constructs Other tasks: Publication of results, Activity Reports, Oral presentations of project results
 - Country: Belgium
6. Employer: UCL _ School of Pharmacy, Unit of Biochemistry, Toxicology and Cancerology, Brussels
 - Start date: 091995
 - End date: 1998
 - Position: Senior scientist
 - Activities: Research Project: Regulation of protein synthesis and search for genes induced by hypoxia in isolated rat hepatocytes. Project: study on the effect of hypoxia on the phosphorylation status of initiation translation factor and search for up_regulated genes by using subtractive DNA library. Main tasks: Laboratory work: preparation of isolated hepatocytes by liver perfusion, cell culture, use of biochemical and molecular biological techniques to identified the targets proteins/genes Other tasks: _ Publication of results, Activity Reports, Oral presentations of project results _ Teaching of biochemistry & pharmaceutical chemistry to bachelor students _ Supervising of the lab/thesis work of students (degree in biotechnology, lab technicians)
 - Country: Belgium

Education and training

1. Subject: UCL_Université Catholique de Louvain, Laboratory of Biochemistry, Toxicology and Cancerology _ School of Pharmacy, Brussels
 - Start date: 091991
 - End date: 111994

- Qualification: PhD in Pharmaceutical Sciences
- Organisation: Title of the thesis: Inhibition of protein synthesis by adenylic nucleotides _ Role of the purinoceptors and metabolism of adenosine » Scientific fields: Biochemistry – toxicology Main tasks: Laboratory work: preparation of isolated hepatocytes by liver perfusion, cell culture, (use of biochemical and molecular biological techniques) Study on the involvement of Ca²⁺i increase in the translation inhibition by using fluorimetry and confocal microscopy at Dept of Toxicology (Pr. Orrenius), Karolinska Institutet, Stockholm (6 month Fellowship) Other tasks: Teaching of biochemistry & pharmaceutical chemistry to bachelor students
 - Country: Belgium
- 2. Subject: UCL_Université Catholique de Louvain, School of Pharmacy, Brussels
 - Start date: 091986
 - End date: 061989
 - Qualification: Pharmacist
 - Organisation: Pharmacy (Master's degree) Basic courses in chemistry, pharmacology, pharmacokinetics, drug formulation, toxicology Practical training course in pharmacy
 - Country: Belgium
- 3. Subject: FUNDP – Facultés Universitaires Notre_Dame de la Paix, Namur
 - Start date: 091984
 - End date: 061986
 - Qualification: Bachelor (Pharmacy)
 - Organisation: Pharmacy (Bachelor's degree) Basic courses in chemistry, physics, cell biology, genetic, cytology & histology, microbiology, statistics, mathematics, immunology, plant biology, English
 - Country: Belgium

Additional information

Publications

EHMANN F., SAKAI_KATO K., DUNCAN R., HERNÁN PÉREZ DE LA OSSA R. , PITA R., VIDAL J_M., KOHLI A., TOTHFALUSI L., SANH A., TINTON S., ROBERT J.L., SILVA LIMA B. AND PÁPALUCA AMATI M. Next_generation nanomedicines and nanosimilars: EU regulators' initiatives relating to the development and evaluation of nanomedicines. *Nanomedicine*, (2013), 8 (5): 849_856. DUMONT P., BERTON A., NAGY N., SANDRAS F., TINTON S., DEMETTER P., MASCART F., ALLAOUI A., DECAESTECKER C.AND SALMON I. Expression of galectin_3 in the tumor immune response in colon cancer. *Lab Invest.* (2008), 88:896_906. SCHEPENS B., TINTON S., BRUYNOOGHE Y., PARTHOENS E., HAEGMAN M., BEYAERT R. AND CORNELIS S. A role for hnRNP C1/C2 and Unr in internal initiation of translation during mitosis.tract binding protein stimulates HIF_1a IRES_mediated translation during hypoxia. *EMBO J.* (2007), 26,158_169. SCHEPENS B., TINTON S.*, BRUYNOOGHE Y., BEYAERT R. AND CORNELIS S. The polypyrimidine tract binding protein stimulates HIF_1a IRES_mediated translation during hypoxia (*equal contribution), *Nucleic Acid Res.*(2005), 33, 6884_6894. TINTON S. A., SCHEPENS B, BRUYNOOGHE Y., BEYAERT R. AND CORNELIS S. Regulation of the cell cycle_dependent PITSLRE internal ribosome entry site: roles of upstream of N_ras and phosphorylated translation initiation factor eIF_2a. *Biochem. J.* (2005), 385, 155_163. CORNELIS S., TINTON S., SCHEPENS B., BRUYNOOGHE Y. AND BEYAERT R. Unr translation can be driven by an IRES element that is negatively regulated by polypyrimidine tract binding protein. *Nucleic Acid Res.* (2005), 33, 3095_3108. TINTON S. AND CALDERON P. B. Role of protein phosphorylation in the inhibition of protein synthesis caused by hypoxia in isolated rat hepatocytes. *Int. J. Toxicol.* (2001), 20(1) 21_27. CORNELIS S., BRUYNOOGHE Y., DENECKER G., VAN HUFFEL S., TINTON S., AND BEYAERT R. Identification and characterization of a new cell cycle regulated internal ribosome entry site. *Molecular Cell* (2000), 5, 597_605. TINTON S.A. AND BUC_CALDERON P.M. Hypoxia increases the association of 4E binding protein 1 with the initiation factor 4E in isolated rat hepatocytes. *FEBS letters* (1999), 446, 55_59. TINTON S., TRAN_NGUYEN Q_N. AND BUC_CALDERON P.M. Role of protein phosphorylation events in the hypoxia signal transduction pathway leading to the inhibition of total protein synthesis in isolated hepatocytes. *Eur. J. Biochem.* (1997), 249, 121_126. TINTON S.A., CHOW S.C., BUC_CALDERON P.M AND KASS G.E.N. Adenosine stimulates calcium influx in isolated rat hepatocytes. *Eur. J. Biochem.* (1996), 238, 576_581. TINTON S.A. AND BUC_CALDERON P.M. Homocysteine enhances the inhibitory effect of extracellular adenosine on the synthesis of proteins in isolated rat hepatocytes. *Biochem. J.* (1995), 310, 893_896. TINTON S.A., CHOW S.C., BUC_CALDERON P.M., KASS G.E.N. AND ORRENIUS S. Adenosine inhibits protein synthesis in isolated rat hepatocytes. Evidence for a lack of involvement of intracellular calcium in the mechanism of inhibition. *Eur. J. Biochem.* (1995), 229, 419_425. TINTON S.A. AND BUC_CALDERON P.M. Inhibition of protein synthesis induced by adenine nucleotides requires their metabolism into adenosine. *Biochem. Pharmacol.* (1995), 50, 481_488. TINTON S.A., LEFEBVRE V.H., COUSIN O.C. AND BUC_CALDERON P.M. Cytolytic effects and biochemical changes induced by extracellular ATP to isolated hepatocytes. *Biochim. Biophys. Acta* (1993), 1176, 1_6.

Projects

Memberships

member of the multidisciplinary CHMP drafting group on nanomedicines

member of the ICH S13 NcWP drafting group on non-clinical safety requirement for oligonucleotides-based therapeutics

Other Relevant Information

Training abroad / fellowship: _ 1990: Measurement of serum DNA by nick translation _ Lab of 'Immunopathologie rénale et Immunopharmacologie' (Dr. Fournié), Medicine Faculty, INSERM, CHU, Toulouse. _ 1993: Measurement of Ca²⁺i in liver cells by fluorimetry and confocal microscopy _ Dept of Toxicology (Prof. Orrenius), Karolinska Institutet, Stockholm (6-month Fellowship from the European Science Foundation_ Toxicology) _ 1994: Detection of S_adenosylhomocysteine and methylation reactions. Dept of Microbiology and Immunology, (Pr.Duerre), School of Medicine, University of North Dakota, Grand Forks 1999 Immunostaining of neuronal cells _ School of Biological Sciences (Pr. Rothwell), University of Manchester. 2000 Preparation of competent cell extracts for in vitro translation assays _ Gene Expression Programme, EMBL, Heidelberg