

ROXANE PRIEUX

CHEMICAL ENGINEER AND PHD STUDENT IN SKIN BIOLOGY

ABOUT ME

A self-motivated connected researcher with an open and curious mind and excellent intercultural and adaptation skills

LANGUAGES

FRENCH native
ENGLISH fluent
ITALIAN advanced
CHINESE intermediate
SPANISH intermediate

RESEARCH INTEREST

Skin Biology

Tissue Engineering
In vitro Toxicology
Barrier tissues

HOBBIES

Running
Volleyball
Travelling
Teaching
Event planning
Popularizing Science

WORK EXPERIENCE

Raw material engineer, L'OREAL
PARIS (FRANCE) | Nov 2017-Feb 2018

- Work as part of a global team to ensure the sustainability and security in use of our raw materials
- Permanent contact with supplier to ensure raw material compliance to cosmetic and chemical regulation
- Coordinating activities of R&D, Toxicology, Purchasing and Quality
- Review dossiers, evaluate for inconsistencies, and correct as necessary

R&D coating formulator, ARKEMA INC.
KING OF PRUSSIA (USA) | Sep 2015-Sep 2016

- Formulation of waterborne paints and coatings
- Conduct various tests on wet paint formulations, such as various viscosity tests
- Adhesion tests, falling sand and Taber abrasion testing, flexibility tests, hardness tests, chemical resistance tests

Academic researcher, CARDIFF
UNIVERSITY
CARDIFF (UK) | Apr 2013-Jun 2013

- BSc thesis: Organic synthesis of terpenes used in pesticides
- NMR spectroscopy, Mass spectroscopy, HPLC, silica column chromatography (machine and manual), thin layer chromatography

Application scientist, BASF
SHANGHAI (CHINE) | Feb 2017-Aug 2017

- BASF Explore Together Program
MSc thesis: Set up an evaluation method of squalene oxidation upon diesels exhaust gas and UV exposure
- Optimization exposure conditions
 - Test antioxidant bioactive performance
 - Analytical method development (HPLC, UV-vis, GC-MS)

Quality control technician, YVES ROCHER
RIEUX (FRANCE) | July 2014-Aug 2014

- Control of raw materials: acidity, peroxide number (indirect dosage of iodine by thiosulfate), IR analysis, checking the cloud point/melting point, control of the weight of the dry extract using moisture analyzer or a heat chamber.
- Listing CMR raw materials/reactants especially hazardous for pregnant women and making sure that the risk is well-informed via pictograms and Risk and Safety phrases.

EDUCATION

PhD in Skin Biology and In vitro Toxicology , UNIFE
FERRARA (ITALY) | Feb 2018-May 2021

PhD title: "Impact of cigarette smoke on in vitro cutaneous responses" - Degree expected in March 2021
CITYCARE is an Innovative Training Network (ITN) program funded by the Marie Curie Actions with **Dow Silicones Belgium** as industrial Partner

- Implementation of a cell culture laboratory within Dow Silicones Belgium
- Build and characterize a reconstructed human epidermis (RHE) in both industrial and academic laboratories
- Analyse the cutaneous responses upon cigarette smoke exposure in vitro
- Identify mechanical pathways involved in the CS induced toxicity
- Test innovative technologies to counteract oxidative stress in 2D and 3D skin cultures

REFEREES

GIUSEPPE VALACCHI, Prof.
(PhD Academic tutor)
Associate Prof. in Regenerative
Medicine, NC State University
Associate Prof. in Physiology, Dpt of
Biomedical and Specialist Surgical
Sciences, University of Ferrara
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MARC EEMAN, Ph.D
(PhD Industrial tutor)
Research Scientist and Coordinator of
EU-funded CITYCARE Project
Dow Silicones Europe Sprl
Parc Industriel Zone C, Rue Jules Bordet,
7180 Seneffe, Belgium

LINDA RAO, Ph.D
(MSc Industrial tutor)
Development & Application Technology,
Personal Care, Care Chemicals
Adress : BASF Advanced Chemicals Co.,
Ltd., 4F, Innovation Campus I, No 300,
Jiangxinsha Road, 200157
Shanghai, China

KURT WOOD, Ph.D
(Industrial tutor)
Group Coating leader
Principal Scientist
KYNAR® PVDF R&D Arkema Inc.
900 First Avenue
King of Prussia PA 19406 USA

Chemical engineering diploma, School of Chemistry of Lyon (CPE Lyon)

LYON (FRANCE) | Sep 2014-Sep 2017

- Courses: Organic Chemistry, Analytical Chemistry, Process engineering, Polymer chemistry, Thermodynamics, Molecular spectroscopy
- Graduation of **Master's Degree of Chemistry and Formulation Engineering** via a joint program between **University of Lille and National School of Chemistry of Lille (ENSCL)**

BSc of Chemistry final year, Cardiff School of Chemistry

CARDIFF (UK) | Sep 2013-Jun 2013

- Main subjects: Organic Chemistry, Physical Chemistry, Biological Chemistry, Catalysis
- Research Project: Study of luminescent Rhenium complexes

Technical degree in Chemistry, Institute of technology of Rennes

RENNES (FRANCE) | Sep 2010-Jun 2012

- Courses: Organic Chemistry, Inorganic Chemistry, Analytical Chemistry, Chemical Engineering

TRAININGS

- **ESTIV Applied Toxicology course** - European Registered Toxicologist (ERT) accreditation
European Society of In Vitro Toxicology (ESTIV)
- **Summer School on non-animal approaches in science** - EU Joint Research Center
Ispira, Italy
- **Intense training in cell culture** - *Adolphe Merkle Institute
Fribourg Switzerland*
- **Immunity course** - EPFL MOOC

SKILLS

- **LAB Chemistry:** Chromatography techniques (HPLC, GC, MS), Raman and IR spectroscopy, NMR
Biology: Cell culture, qrt-PCR, Western Blotting (manual and JESS), Immunofluorescence
- **IT** Microsoft Office, LaTeX, Matlab, Python, Adobe Illustrator, Raman spectroscopy software (WiRE)
- **SOFT** Adaptability, Problem solving, Creativity, Collaboration, Networking

RESEARCH ACTIVITIES

- Member of the European Society of In Vitro Toxicology (ESTIV), the Society of Free Radical Research (SFRR) and the French Society of Cosmetology (SFC)
- Poster presentation at the **SFRR-E meeting 2019** in Ferrara, title: "The reconstructed human epidermis as a useful tool to study the impact of environmental stressors"
- Travel grant awarded by ESTIV to present and attend the **JRC Summer School 2019** Ispira, Italy
- Among 9 best posters **IFSCC Munich 2018**, title: "Investigation of city pollution on sebum oxidation"
- Virtual presentations for the University of Namur "Mimicking CS exposure to assess in vitro cutaneous responses"
- Virtual presentation expected at the **SFRR-I 2021**
- Support and train undergraduate student at the University of Ferrara, Italy
- Organisation of a virtual workshop within the CITYCARE project entitled "From physiology to pathophysiology: role of outdoor stressors on cutaneous tissue"