

## Estelle LAURENT, PharmD

December 29<sup>th</sup>, 1981 (Toul, France), French and Canadian citizen / Languages: French (native), English (fluent)

### Professional Address

Laboratoire PRISM - Unité Inserm 1192  
 Université de Lille - Campus Cité Scientifique  
 Faculté des Sciences et Technologies - Département de Biologie  
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### CAREER PROFILE

**Doctor in Pharmacy, with more than six years of experience as a Laboratory manager and Research Technician\* in Toronto and Engineer (“Ingénieur d’études”) since September 2019 in PRISM laboratory (Lille, France). Strong experience in various molecular, biochemical and cellular techniques. Technical expert in proximal proteomics. Skilled in implementing novel technologies, training students and technicians. Proven ability to manage multiple responsibilities, including dozens of international collaborative projects, organizing a 10+ people laboratory, implementing GLP and safety rules, and managing laboratory finances and logistics. More than four years of Pharmacy professional practice.**

### BIOLOGY, CHEMISTRY AND RESEARCH TASKS

- **Molecular biology:**
  - Plasmid backbones construction and purification
  - Extensive experience in gene cloning (e.g. PCR, SOE-PCR, Gateway)
  - Bacterial systems handling for gene and protein production
  - DNA/RNA extraction and qualification
- **Cell biology:**
  - Extensive experience in human cells culture
  - Production of 500+ stable inducible cell lines
  - Implementation of cellular assays (e.g. drug response, time course, survival)
  - Confocal microscopy sample preparation
  - Large cellular sample production
- **Biochemistry:**
  - Co-Immunoprecipitation for mass spectrometry
  - Extensive experience in BioID and TurboID sample preparation
  - Recombinant protein production
  - *In vitro* binding assays
- **General tasks:**
  - Laboratory inventory and organization
  - Technical support for equipment
  - Ensuring completion of mandatory training for all lab members (Toronto)
  - Ensuring GLP implementation
  - Managing of laboratory finances, supplies and stocks (Toronto)
  - Training of new laboratory members (students and technicians)

### HIGHLIGHTS OF QUALIFICATIONS

- **6+ years of experience** as a Laboratory Manager and Technician
- Technical managing and/or follow-up of multiple collaborations
- Health and Safety laboratory referent
- Laboratory Logistic and Financial manager
- Bilingual in French and English

- Highly organized and detail-oriented
- Excellent ability to work in a team
- **4+ years of experience** as pharmacist
- Complete autonomy to gather and assimilate information
- Able to work well under pressure, flexible, reliable
- Highly motivated individual who takes pride in outstanding performance
- Able to maintain confidentiality and strictly apply the rules
- Knowledge of Microsoft Office

## EMPLOYMENT HISTORY

- **Since Sep-2019 – Engineer (temporary full-time)**
  - PRISM laboratory, INSERM U1192, University of Lille (France)
- **Mar-2016 to Aug 2019 - Technician (1<sup>st</sup> class) and Laboratory manager (permanent full-time)**
  - Princess Margaret Cancer Centre, University Health Network (Toronto, Canada)
- **Sep-2013 to Mar-2016 - Technical Assistant and Laboratory manager (permanent full-time)**
  - Princess Margaret Cancer Centre, University Health Network (Toronto, Canada)
- **Feb-2013 to Sep-2013 - Technical Assistant (temporary half-time)**
  - Princess Margaret Cancer Centre, University Health Network (Toronto, Canada)
- **Nov-2007 to June-2011 - Pharmacist (full-time)**
  - Pharmacie Dedieu-Voirin (Martres-Tolosane, France)

### **Responsibilities included:**

- *Prescription filling*
- *Patient consultation and advice*
- *Patient long-term follow-up*
- *Public relations – solving of questions/conflicts with patients*
- *General administrative duties*
- *Conforming to and keeping updated on legislature*
- *Respect of good pharmaceutical practice rules*
- *Team leader (supervised 3 colleagues)*
- *Preparation of orders and inventory management anticipating demand*

## HIGHER EDUCATION

- **June 2007 - Doctorate of Pharmaceutical Sciences (Pharm.D.)**  
**“Prise en charge des symptômes psycho-comportementaux dans les démences chez la personne âgée”**  
 University of Toulouse (France)
- **Sep-2001 to June-2007 – General Pharmacy program (Faculty of Pharmaceutical Sciences)**  
 University of Toulouse (France)
- **2000-2001: Completion of the Pharmacy Studies competition (ranking 37<sup>th</sup>/400+)**  
 University of Toulouse, France

## PROFESSIONAL DEVELOPMENT

- **2012 - Language for Workplace Connections**  
 Acces Employment, Toronto
- **Oct-Nov 2011 - Comprehensive English program (6 weeks intensive courses)**  
 University of Toronto (Canada)
- **2007-2011 - Pharmaceutical Sciences Continuing Studies (one to two session per month)**  
 University of Toulouse (France)
- **2009 - University diploma (DU) in Homeopathy**  
 University of Toulouse (France)
- **2008 - University diploma (DU) in In-Home Health Care**  
 University of Toulouse (France)

## VOLUNTEER EXPERIENCE

- **Dec-2011 - Volunteer in the Salon du livre de Toronto (Toronto, Canada)**
- **Nov 2011 - Volunteer in the European Film Festival (Toronto, Canada)**  
 Contact and provide information to diverse groups of attendees

Request votes and donations

- **Oct-2011 to Feb-2013 - Volunteer at the Alliance Française (Toronto, Canada)**  
Public reception and events organization
- **2004-2005 - Internship in Hospital services (CHU Toulouse, France)**  
Geriatrics units: pharmacy (3 months); long stay units (6 months)  
Neurosurgery unit (3 months)

## PEER-REVIEWED PUBLICATIONS

- **2020**

Kerstin B. Kaufmann, Andy GX Zeng, Etienne Coyaud, Laura Garcia-Prat, Efthymia Papalex, **Laurent EMN**, Michelle Chan-Seng-Yue, Olga Gan, Kristele Pan, Jessica McLeod, Sasan Zandi, Shin-ichiro Takayanagi, Rahul Satija, Brian Raught, Stephanie Z. Xie, John E. Dick A Distinct Subset of Human Blood Stem Cells Resists Regenerative Stress to Preserve Stemness. (2020) *Cell Stem Cell* (under review)

Gonçalves J, Coyaud E, Laurent EMN, Raught B, Pelletier L. LUZP1 and the tumour suppressor EPLIN are negative regulators of primary cilia formation. (2020) *J Cell Biol* (in press) **IF: 8.891** (Publication category A)

Tristan Cardon, Julien Franck, Etienne Coyaud, **Estelle M N Laurent**, Marina Damato, Michele Maffia, Daniele Vergara, Isabelle Fournier, Michel Salzet Alternative Proteins Are Functional Regulators in Cell Reprogramming by PKA Activation. (2020) *Nucleic Acids Res* doi: 10.1093/nar/gkaa277 **IF: 10.727**. (Publication category A+)

Gheiratmand L, Coyaud E, Gupta GD, **Laurent EMN**, Hasegan M, Prosser SL, Gonçalves J, Raught B, Pelletier L. Spatial and proteomic profiling reveals centrosome-independent features of centriolar satellites. (2019) *EMBO J* doi: 10.15252/embj.2018101109. **IF: 10.557**. (Publication category A+)

- **2019**

Mangé A, Coyaud E, Desmetz C, **Laurent E**, Béganton B, Coopman P, Raught B, Solassol J. FKBP4 connects mTORC2 and PI3K to activate the PDK1/Akt-dependent cell proliferation signaling in breast cancer. (2019) *Theranostics* 9(23):7003-7015. **IF: 8.712** (Publication category A+)

Botham A, Coyaud E, Nirmalanandhan VS, Gronda M, Hurren R, Maclean N, St-Germain J, Mirali S, **Laurent E**, Raught B, Schimmer A. Global Interactome Mapping of Mitochondrial Intermembrane Space Proteases Identifies a Novel Function for HTRA2. (2019) *Proteomics* 19(24):e1900139. **IF: 3.106** (Publication category A)

Chan CJ, Le R, Burns K, Ahmed K, Coyaud E, **Laurent EMN**, Raught B, Melançon P. BioID Performed on Golgi Enriched Fractions Identify C10orf76 as a GBF1 Binding Protein Essential for Golgi Maintenance and Secretion. (2019) *Mol Cell Proteomics* 18(11):2285-2297. **IF: 6.759** (Publication category A)

Frendo-Cumbo S, Jaldin-Fincati JR, Coyaud E, Laurent EMN, Townsend LK, Tan JMJ, Xavier RJ, Pillon NJ, Raught B, Wright DC, Brumell JH, Klip A. Deficiency of the autophagy gene ATG16L1 induces insulin resistance through KLHL9/KLHL13/CUL3-mediated IRS1 degradation. (2019) *J Biol Chem*. 294(44):16172-16185. **IF: 4.106** (Publication category A)

D'Costa VM, Coyaud E, Boddy KC, **Laurent EMN**, St-Germain J, Grinstein S, Raught B, Brumell JH. BioID reveals host cell targets of Salmonella type 3 secreted effectors. (2019) *Nature Microbiology* 4(12):2511-2522 **IF: 14.182**. (Publication category A+)

Gheiratmand L, Coyaud E, Gupta GD, **Laurent EMN**, Hasegan M, Prosser SL, Gonçalves J, Raught B, Pelletier L. Spatial and proteomic profiling reveals centrosome-independent features of centriolar satellites. (2019) *EMBO J*. 38(14):e101109. **IF: 10.557**. (Publication category A+)

- 2018

Sydor AM, Coyaud E, Rovelli C, **Laurent EMN**, Liu H, Raught B, Mennella V. PPP1R35 is a novel centrosomal protein that regulates centriole length in concert with the microcephaly protein RTTN. (2018) *eLife* **31**;7. pii: e37846. IF: 7.725. (Publication category A+)

Coyaud E, Ranadheera C, Cheng D, Gonçalves J, Dyakov B, **Laurent EMN**, Saint-Germain J, Pelletier L, Gingras A-C, Brumell J, Kim P, Safronetz D, and Raught B. Global Interactomics uncovers extensive organellar targeting by Zika virus. (2018) *Molecular and Cellular Proteomics* **17**(11):2242-2255. IF: 6.759 (Publication category A)

- 2017

Kim B R., Coyaud E, **Laurent EMN.**, St-Germain J, Van de Laar E, Tsao M S., Raught N and Moghal N. Identification of the SOX2 interactome by BioID reveals EP300 as a mediator of SOX2-dependent squamous differentiation and lung squamous cell carcinoma growth. (2017) *Molecular and Cellular Proteomics* **16**(10):1864-1888. IF: 6.759. (Publication category A)

Swayampakula M, McDonald P, Vallejo M, Coyaud E, Chafe S, Westerback A, Venkateswaran G, Shankar J, Gao G, **Laurent EMN.**, Lou Y, Bennewith K, Supuran C, Nabi I, Raught B, Dedhar S. The interactome of metabolic enzyme Carbonic Anhydrase IX reveals novel roles in tumor cell migration and invadopodia/MMP-14-mediated invasion. (2017) *Oncogene* doi: 10.1038/onc.2017.219. IF: 7.272. (Publication category A)

Liyanage SU, Coyaud E, **Laurent EM**, Hurren R, Maclean N, Wood SR, Kazak L, Shamas-Din A, Holt I, Raught B, Schimmer A. Characterizing the mitochondrial DNA polymerase gamma interactome by BioID identifies Ruvbl2 localizes to the mitochondria. (2017) *Mitochondrion* **32**:31-35. IF: 3.586. (Publication category A)

- 2015

Coyaud E\*, Mis M\*, **Laurent E M.N.**, Dunham W H., Couzens A L., Robitaille M, Gingras A-C, Angers S and Raught B. BioID-based identification of SCF<sup>B-TrCP1/2</sup> E3 ligase substrates. (2015) *Molecular and Cellular Proteomics* **14**(7):1781-95(\* co-first authors). IF: 6.759. (Publication category A)

## SELECTED COLLABORATORS

- **Prof. John Brumell**, Sickkids, Toronto, Canada
- **Prof. Stephane Angers**, L.Dean Faculty of Pharmacy, University of Toronto, Toronto, Canada
- **Prof. Laurence Pelletier**, Lunenfeld-Tanenbaum Research Institute, Toronto, Canada
- **Prof. Peter Kim**, Sickkids, Toronto, Canada
- **Prof. Michael Matunis**, John Hopkins Bloomberg School of Public Health, Baltimore, MD, USA
- **Prof. Heidi McBride**, McGill University, Montreal, Canada
- **Dr. Travis Stracker**, Institute for Research in Biomedicine, Barcelona, Spain
- **Prof. Dante Neculai**, Biomedical Sciences, Zhejiang University, Hangzhou, China
- **Prof. Shoukat Dedhar**, University of British Columbia, Vancouver, Canada
- **Prof. Mikael Sigvardsson**, Faculty of Medicine and Health Sciences, Linköping, Sweden
- **Prof. Philip Barker**, University of British Columbia, Kelowna, Canada
- **Prof. Reuven Stein**, Sagol School of Neurosciences, Tel-Aviv, Israel
- **Prof. Shai Izraeli**, Sheba Cancer Research Center, Tel-Aviv University, Ramat Gan, Israel
- **Prof. Robert Rottappel**, University Health Network, Toronto, Canada
- **Dr. Jens Luders**, Institute for Research in Biomedicine, Barcelona, Spain
- **Prof. Senthil Muthuswami**, Dana-Farber/Harvard Cancer Center, Boston, MA
- **Dr Yves Jacob**, Institut Pasteur, Paris, France
- **Pr Antoine Touzé**, Université de Tours, Tours, France

## EMPLOYER CONTACT

**Pr. Michel Salzet / Pr. Isabelle Fournier**, PhDs: PRISM laboratory; Lab directors, Scientists, Principal Investigators

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**References available upon request**