

## Tristan Cardon

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# Curriculum Vitae

## FORMATION

PhD in proteomic and mass spectrometry analysis

(Graduated the **10 October 2019**):

2016-2019

Title: **“Relations, interactions and functions of alternative proteins”**

Directed by Isabelle Fournier and co-tutored by Julien Franck Laboratory PRISM, INSERM U1192

Master “Chimie science du vivant” (analytique) University Lille1

2014-2016

Principal component analysis (PCA), **mass spectrometry imaging**

### Grant obtained

Canceropole Nord-Ouest, **AAP Emergent**:

**“Ghost in the cell”** Dynamic analysis of the Ghost protein interaction in glioma – **20 000€ - 1 Year project**

### Professionals skills

Post-Doctoral Inserm, PRISM (U1192)

15 Mars 2020

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Now

- ERA-PerMed : MEET-AML

Development of LC-MS/MS method for metabolites and lipids

Development of multiomics approach (Proteomic, metabolomic, lipidomic, transcriptomic, genomic)

Coordination of the project with partners

- Proteomic and Interactomic
- Project leader of the “canceropole Nord-Ouest” project named: “Ghost in the cell”

Engineer, PRISM (U1192 Lille)

October 2019

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15 Mars 2020

- Proteomic and Interactomic :

Development of crosslinking enrichment, *in-vivo* and micro sampled tissue

Combined data of Proteomic and database pathway

Participate to BioID development and application

- Grant proposal for Canceropole “Emergence”

PhD Student, PRISM (U1192 Lille)

15 September

2016

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10 October

2019

- Industrial collaboration with **SERVIER**: **“research to the partners of interaction for a target protein”**

- **Proteomic** : Top-Down, Bottom-Up, SEPs, smORF, **Alternatives Proteins**

- Interactomic : **Crosslink coupled to mass spectrometry (XL-MS), immunoprecipitation**

- Student supervision

Master2, PRISM (U1192 Lille1) « *développement méthodologique de microextraction après imagerie par spectrométrie de masse appliqué à la malaria et au cancer de l’ovaire* »

2016  
(24 weeks)

- **MALDI-TOF/TOF (autoflex, ultraflex and rapiflex), MALDI Orbitrap**

- **Orbitrap Q-Exactive** (nanoLC)

- LESA, PAM, : micro extraction and microdigestion on tissue

- Proteome Discoverer, Scils, ImageQuest, FlexImaging, FlexControl

2015  
(24 weeks)

Master1, MSAP (USR3290 Lille1) : « *méthode électrophorétique de séparation des protéines de haut poids moléculaire.* »

2014  
(7 weeks)

Licence3, APTEEUS (U761 lille2): « *Développement de techniques d’analyses miniaturisées de cellules en culture basées sur la spectrométrie de masse.* »

## Language and software skills

English reading, writing and speaking (level B2);  
Proteome Discoverer; Maxquant; Scils; Cytoscape  
Adobe Illustrator

## Scientific production

### **Congress participation:**

13-14/10/2016 : **EURON Phd-Day 2016**, Lille, France,

Oral + Poster: Can Alternative Proteins Bring New Insights to Spinal Cord Injury?

1/12/2016 **BIOFIT** – Lille, France,

Poster: Alternative proteins: the hidden world of potential biomarkers on cancer

20-24/03/2017 : **Club Jeunes de la SFSM** (Société Française de Spectrométrie de Masse) – Trélon, France,

Oral: Tracking biomarkers involved in neuro-paludisme, by mass spectrometry imaging and microextraction

05-07/04/2017 : **Club Jeunes de la SFEAP** (Société Française d'Electrophorèse et d'Analyse Protéomique) - Montpellier, France,

Oral: Can Alternative Proteins Bring New Insights to Spinal Cord Injury?

05-07/10/2017 **SMMAP** – Paris, France,

Poster: Alternative proteins: The hidden world of spinal cord injury?

25-26/10/2017 **EURON Phd-Day 2017** - Maastricht, Pays-bas,

Oral + Poster: Alternative Proteins the submerged part of proteomic

18-20/04/2018 : **Club Jeunes de la SFEAP** (Société Française d'Electrophorèse et d'Analyse Protéomique) – Rennes, France,

Oral: Searching for Ghost Proteins Interactome

16-20/06/2018 : **EUPA** (EUropean Proteomic Association) – Saint Jacques de Compostelle, Espagne,

Oral: Searching for Ghost Proteins Interactome

10/09/2018 : **journée Andrée Verbert** – Lille, France

Oral + Poster: Relations, interactions and functions of alternative proteins

02/06/2020 **ASMS**-Houston Texas

Poster: Evidence in glioma that Ghost proteins are functional Regulators using by large scale crosslink mass spectrometry and TurboID.

### **Publication:**

2020- Trends in Biochemical Sciences (TIBS):

Shedding light on the Ghost proteome

**Tristan Cardon**, Isabelle Fournier, Michel Salzet

2020- Nucleic Acids Research (NAR):

Probing the Function of Alternative Proteins in Cell Reprogramming by Large Scale analyses

**Tristan Cardon**, Julien Franck, Marina Damato, Michele Maffia, Daniele Vergara, Isabelle Fournier, Michel Salzet

2020- IScience:

Reference and Ghost Proteins Identification in Rat C6 Glioma Extracellular Vesicles

**Tristan Cardon**, Adriana-Natalia Murgoci, Soulaïmane Aboulouard, Marie Duhamel, Isabelle Fournier, Dasa Cizkova, Michel Salzet

2019- Journal of the American Chemical Society (ACS) - Analytical Chemistry:

Optimized Sample Preparation Workflow for Improved Identification of Ghost Proteins

**Tristan Cardon**, Flore Hervé, Vivian Delcourt, Xavier Roucou, Michel Salzet, Julien Franck, Isabelle Fournier

2019- Journal of the American Chemical Society (ACS) - Analytical Chemistry:

MALDI MSI of Lipids in Experimental Model of Traumatic Brain Injury Detects Acylcarnitines as Injury Related Markers

Khalil Mallah, Jusal Quanico, Antonella Raffo-Romero, **Tristan Cardon**, Soulaïmane Aboulouard, David Devos, Firas Kobeissy, Kazem Zibara, Michel Salzet, Isabelle Fournier

2019- Cells:

Distinct Protein Expression Networks are activated in Microglia Cells after Stimulation with IFN- $\gamma$  and IL-4

Daniele Vergara, Annamaria Nigro, Alessandro Romano, Stefania De Domenico, Marina Damato, Julien Franck, Chiara Coricciati, Maxence Wistorski, **Tristan Cardon**, Isabelle Fournier, Angelo Quattrini, Michel Salzet, Roberto Furlan and Michele Maffia

2019- Molecular & Cellular Proteomics (MCP):

Mapping spatiotemporal microproteomics landscape in experimental model of traumatic brain injury unveils a link to Parkinson's disease.

Khalil Mallah, Jusal Quanico, Antonella Raffo-Romero, **Tristan Cardon**, Soulaïmane Aboulouard, David Devos, Firas Kobeissy, Kazem Zibara, Michel Salzet and Isabelle Fournier

2019- Biochimica and Biophysica Acta (BBA) - General Subjects:

Nuclei of HeLa cells interactomes unravel a network of ghost proteins involved in proteins translation

**Tristan Cardon**, Michel Salzet, Julien Franck, Isabelle Fournier

2018- Seminars in Cancer Biology:

The multiverse nature of epithelial to mesenchymal transition

Pasquale Simeone, Marco Trerotola, Julien Franck, **Tristan Cardon**, Marco Marchisio, Isabelle Fournier, Michel Salzet, Michele Maffia, Daniele Vergara

2017- Biochimica and Biophysica Acta (BBA)-Proteins and Proteomics:

NanoLC-MS coupling of liquid microjunction microextraction for on-tissue proteomic analysis.

Jusal Quanico, Julien Franck, **Tristan Cardon**, Eric Leblanc, Maxence Wistorski, Michel Salzet, Isabelle Fournier