

1 Personal details

Name: FRANCK
First name: Julien
Gender: Male
Birth date : 28/05/1979
Function : MCF
Organisation: Université de Lille
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2 Education

- 2009** PhD in Biology, University of Lille 1, Laboratoire de Neuroimmunologie des Annélides, CNRS-UMR 8017, Supervisor Pr. I. Fournier, Development of in situ Bottom-up strategies for MALDI Mass spectrometry imaging experiments
- 2006** Master degree in physical chemistry, University Pierre & Marie Curie (Paris VI), Paris, France
- 2004** Bachelor degree in chemistry, University Pierre & Marie Curie (Paris VI), Paris, France

3 Previous positions

- 2012** Associate professor, PRISM Lab, Inserm U1192, University of Lille, Pr. M. Salzet
- 2011-2012** ATER, Laboratoire de Spectrométrie de Masse Biologique Fondamentale & Appliquée – EA4550, Université Lille 1, Pr. M. Salzet
- 2011** Stage post doctoral, Laboratoire de Spectrométrie de Masse Biologique Fondamentale & Appliquée – EA4550, Université Lille 1, Pr. M. Salzet
- 2010-2011** ATER, Université Lille 1, CNRS FRE 3249, Pr. M. Salzet
- 2009-2010** Stage post doctoral, Université Paris 6, France, CNRS UMR 7203, DR. G. Bolbach
- 2006-2009** Doctorat Biologie-Santé, Université Lille 1, Laboratoire de Neuroimmunologie des Annélides, CNRS-UMR 8017, Directeur: Dr. I. Fournier, Thèse soutenue le 19/10/2009, mention très honorable avec félicitations du jury, *Développement des stratégies d'identification en mode bottom-up pour l'imagerie par spectrométrie de masse MALDI*

4 Scientific production

- H index 22, 2028 citations (Google Scholar): 43 publications including 5 as first author, 8 as co-first author (*), 2 as co-corresponding author (✉) 6 book chapters, 2 patents, 26 conférences including 5 invitations, 10 posters.

4.1 Prizes & awards

- 2017** Prime d'encadrement doctoral et de recherche (PEDR)
- 2010** Wicar Hagelstein Medal from Académie des Sciences, des Arts et des Lettres of Lille
- 2010** Thesis prize from the French Society of Mass Spectrometry (SFSM)
- 2007** Best Poster at HUPO, Seoul, Korea

4.2 Publications

- 2008**
- P1 Stauber J., Lemaire R., **Franck J.**, Bonnel D., Croix D., Day R., Wisztorski M., Fournier I., Salzet M. J Proteom Res., (2008) 7, 969-78. MALDI imaging of formalin-fixed paraffin-embedded tissues: application to model animals of Parkinson disease for biomarker hunting
- P2 Jardin-Mathé O., Bonnel D., **Franck J.**, Wisztorski M., Macagno E., Fournier I., Salzet M., J Proteomics (2008) 71, 332-45. MITICS (MALDI Imaging Team Imaging Computing System): a new open source mass spectrometry imaging software

2009

- P3 Djidja M. C., Francese S., Loadman P. M., Sutton C. W., Scriven P., Claude E., Snel M. F., **Franck J.**, Salzet M., Clench M. R., Salzet M. *Proteomics* (2009) 9, 1-15. Detergent addition to tryptic digests and ion mobility separation prior to MS/MS improves peptide yield and protein identification for in situ proteomic investigation of frozen and formalin-fixed paraffin-embedded adenocarcinoma tissue sections
- P4 **Franck J.**, Arafah K., El Ayed M., Bonnel D., Vergara D., Jacquet A., Viniatier D., Wisztorski M., Day R., Fournier I., Salzet M., *Mol. Cell. Proteomics* (2009) 8, 2023-2033. MALDI Imaging Mass Spectrometry: State of the art technology in clinical proteomics
- P5 **Franck J.**, Arafah K., Barnes A., Wisztorski M., Salzet M., Fournier I., *Anal. Chem.* (2009) 81, 8193-8202. Improving tissue preparation for MALDI-MSI. Part 1: using microspotting.
- P6 **Franck J.**, El Ayed M., Wisztorski M., Salzet M., Fournier I. *Anal. Chem.* (2009) 80, 8305-8317. On tissue N-terminal peptide derivatizations for enhancing proteins identification in bottom-up imaging strategies

2010

- P7 Stauber J., MacAleese L., **Franck J.**, Claude E., Snel M., Kaletas B.K., Wiel I.M.V.D., Wisztorski M., Fournier I., Heeren R.M.A., *J. Am. Soc. Mass Spectrom.* (2010) 21, 338-347. *On-tissue protein identification and imaging by MALDI-Ion mobility Mass Spectrometry*
- P8 Meriaux C.*, **Franck J.***, Wisztorski M., Salzet M., Fournier I., *J. Proteomics* (2010) 73, 1204-1218. *Ionic liquid matrices as matrix for mass spectrometry imaging of lipids*
- P9 **Franck J.**, Longuespée R., Wisztorski M., Van Remoortere A., McDonnell L., Salzet M., Fournier I. *Med Sci Monit* (2010) 16, BR293-9. *MALDI Mass Spectrometry Imaging of proteins exceeding 30kDa*
- P10 El Ayed M., Vergara D., Bonnel D., Tasiemski A., Arafah K., **Franck J.**, Viniatier D., Day R., Fournier I., Salzet M. *Med Sci Monit* (2010) 16, BR233-45. *MALDI Imaging Mass Spectrometry in ovarian cancer for tracking, identifying and validating biomarkers*
- P11 Van Remoortere A., van Zeijl R.J., van den Oever N. **Franck J.**, Longuespée R., Wisztorski M., Fournier I., Salzet M., Deelder, A.M., Fournier I., McDonnell L.A., *J. Am. Soc. Mass Spectrom.*, (2010) 21, 1922-9. *MALDI imaging and profiling MS of higher mass proteins from tissue*

2011

- P12 Bonnel D., Longuespée R., **Franck J.**, Roudbaraki M., Gosset P., Day R., Salzet M., Fournier I., *Anal. Bioanal. Chem.* (2011) 401, 149-65. *Multivariate analyses for biomarkers hunting and validation through on-tissue bottom-up or in-source decay in MALDI-MSI: application to prostate cancer*

2012

- P13 Gagnon H., **Franck J.**, Wisztorski M., Day R., Fournier I., Salzet M., *Prog. Histochem. Cytochem.* (2012), 47(3), 133-174. *Targeted mass spectrometry imaging: specific targeting mass spectrometry imaging technologies from history to perspective*

2013

- P14 Bonnel D., **Franck J.**, Meriaux C., Salzet M., Fournier I., *Anal. Biochem.* (2013), 434(1), 187-198. *Ionic matrices pre-spotted matrix-assisted laser desorption/ionization plates for patient maker following in course of treatment, drug titration, and MALDI mass spectrometry imaging (Citations: 13, IF: 2.334)*
- P15 Quanico J.*, **Franck J.***, Daully C., Strupat K., Dupuy J., Day R., Salzet M., Fournier I., Wisztorski M., *J. Proteomics* (2013), 79, 200-218. *Development of liquid microjunction extraction strategy for improving protein identification from tissue sections (Citations: 41, IF: 3.914)*
- P16 Wisztorski M., Fatou B., **Franck J.**, Desmons A., Farré I., Leblanc E., Salzet M., Fournier I., *Proteomics Clin. Appl.* (2013), 7, 234-240. *Microproteomics by liquid extraction surface analysis: Application to FFPE tissue to study the fimbria of tubo-ovarian cancer (Citations: 24, IF: 3.814)*
- P17 **Franck, J.**, Quanico, J., Wisztorski, M., Day, R., Salzet, M., Fournier, I., *Anal. Chem.* (2013), 85, 8127-8134. *Quantification-Based Mass Spectrometry Imaging of Proteins by Parafilm Assisted Microdissection (Citations: 13, IF: 6.320)*

2014

- P18 Diologent, L., **Franck, J.**, Wisztorski, M., Treizebre, A., Focsa, C., Fournier, I., Ziskind, M., *Anal. Chem.* (2014), 86, 1404-1413. *On the Origin of Increased Sensitivity and Mass Resolution Using Silicon Masks in MALDI* (Citations: 1, IF: 6.320)
- P19 Meriaux, C., **Franck, J.**, Park, D. B., Kim, Y. H., Chung, C. K., Park, Y. M., Steinbusch, H., Salzet, M., and Fournier, I., *Hippocampus*. (2014), 24, 628-642, *Human Temporal lobe epilepsy analyses by tissue proteomics* (Citations: 11, IF: 3.945)
- P20 Le Marrec-Croq F., Bocquet-Garçon A., Vizioli J., Vancamp C., Drago F., **Franck J.**, Wisztorski M., Salzet M., Sautiere P.E.; Lefebvre C., *Med. Sci. Monit.* (2014), 20, 644-653. *Calreticulum contributes to C1q-dependant recruitment of microglia in the leech *Hirudo medicinalis* following a CNS injury* (Citations: 5, IF: 1.585)
- P21 Cizkova D., Le Marrec-Croq F., **Franck J.**, Slovinska L., Grulova I., Devaux S., Lefebvre C., Fournier I., Salzet M., *Front. Cell Neurosci.* (2014), 8, 105. *Alterations of protein composition along the rostro-caudal axis after spinal cord injury: proteomic, in vitro and in vivo analysis* (Citations: 9, IF: 4.555)
- P22 Cizkova D., Devaux S., Le Marrec-Croq F., **Franck J.**, Slovinska L., Blasko J., Rosocha J., Spakova T., Lefebvre C., Fournier I., Salzet M., *Scientific Report* (2014), 4 : 7514, DOI : 10.1038/srep07514. *Modulation properties of factors released by bone marrow stromal cells released factors on activated microglia: An in vitro study* (Citations: 9, IF: 4.259)

2015

- P23 Quanico J., **Franck J.**, Gimeno J.P., Sabbagh R., Salzet M., Day R., Fournier I., *Chem.Comm.* (2015), 51, 4564-4567. *Parafilm-Assisted Microdissection: A sampling method for mass spectrometry-based identification of differentially expressed prostate cancer protein biomarkers* (Citations: 10, IF: 6.319)
- P24 Ho Kim J. *, **Franck J. ***, Kang T., Heinsen H., Ravid R., Ferrer I., Hee Cheon M., Lee J.Y., Shin Yoo J., Steinbusch H.W., Salzet M., Fournier I., Mok Park Y., *Scientific Report* (2015), 5: 11138, 10.1038/srep11138. *Proteome-wide characterization of signalling interactions in the hippocampal CA4/DG subfield of patients with Alzheimer's disease* (Citations: 11, IF: 4.259)

2016

- P25 Rizzello A, **Franck J**, Pellegrino M, De Nuccio F, Simeone P, Fiore G, Di Tommaso S, Malvasi A, Tinelli A, Fournier I, Salzet M, Maffia M, Vergara D, *Curr Protein Pept Sci.* 2016 Mar 22, *A proteomic analysis of human uterine myoma.* (Citations: 1, IF 2.576)
- P26 Wisztorski M, Desmons A, Quanico J, Fatou B, Gimeno JP, **Franck J**, Salzet M, Fournier I., *Proteomics.* 2016 Jun; 16(11-12):1622-32., *Spatially-resolved protein surface microsampling from tissue sections using liquid extraction surface analysis* (Citations: 13, IF: 4.041)
- P27 Devaux S, Cizkova D, Quanico J, **Franck J**, Nataf S, Pays L, Hauberg-Lotte L, Maass P, Kobarg JH, Kobeissy F, Mériaux C, Wisztorski M, Slovinska L, Blasko J, Cigankova V, Fournier I, Salzet M., *Mol Cell Proteomics.* 2016 Aug; 15(8):2641-70., *Proteomic Analysis of the Spatio-temporal Based Molecular Kinetics of Acute Spinal Cord Injury Identifies a Time- and Segment-specific Window for Effective Tissue Repair* (Citations: 10, IF: 6.540)
- P28 Quanico J, **Franck J**, Salzet M, Fournier I., *Mol Cell Proteomics.* 2016 Oct; 15(10):3321-3330., *On-tissue Direct Monitoring of Global Hydrogen/Deuterium Exchange by MALDI Mass Spectrometry: Tissue Deuterium Exchange Mass Spectrometry (TDXMS)* (IF: 6.540)

2017

- P29 Quanico J. *, **Franck J. ***, Cardon T., Leblanc E., Wisztorski M., Salzet M., Fournier I., *Biochim Biophys Acta – Proteins and Proteomics* (2017), Jul;1865(7):891-900. doi: 10.1016/j.bbapap.2016.11.002, *NanoLC-MS coupling of liquid microjunction microextraction for on-tissue proteomic analysis.* (IF: 2.773)
- P30 Quanico J.*, **Franck J.***, Wisztorski M., Salzet M., Fournier I., *Biochim Biophys Acta – General Subjects* (2017), Jul; 1861(7):1702-1714. doi: 10.1016/j.bbagen.2017.03.006, *Integrated Mass Spectrometry Imaging and Omics Workflows on the Same Tissue Section Using Grid-Aided, Parafilm-Assisted Microdissection.* (IF: 4.702)
- P31 Drago F., Lombardi M., Prada I., Gabrielli M., Joshi P., Cojoc D., **Franck J.**, Fournier I., Vizioli J., Verderio C., *Front Pharmacol.* (2017) Dec 13; 8:910. doi: 10.3389/fphar.2017.00910. eCollection 2017, *ATP Modifies the Proteome of Extracellular Vesicles Released by Microglia and Influences Their Action on Astrocytes.* (Citations: 2, IF: 4.400)
- P32 Vergara D., Stanca E., Guerra F., Priore P., Gaballo A., **Franck J.**, Simeone P., Trerotola M., De Domenico S., Fournier I., Bucci C., Salzet M., Giudetti A.M., Maffia M., *Front Physiol.* (2017) Jul 27;8:544. doi:

10.3389/fphys.2017.00544, *β-Catenin Knockdown Affects Mitochondrial Biogenesis and Lipid Metabolism in Breast Cancer Cells*. (Citations: 5, IF: 4.134)

- P33 Delcourt V.*, **Franck J.***, Leblanc E., Narducci F., Robin Y.M., Gimeno J.P., Quanico J., Wisztorski M., Kobeissy F., Jacques J.F., Roucou X., Salzet M., Fournier I., EBioMedicine. (2017) Jul; 21:55-64. doi: 10.1016/j.ebiom.2017.06.001, *Combined Mass Spectrometry Imaging and Top-down Microproteomics Reveals Evidence of a Hidden Proteome in Ovarian Cancer*. (Citations: 1)

2018

- P34 Vergara D., Romano A., Stanca E., La Pesa V., Aloisi L., De Domenico S., **Franck J.**, Cicalini I., Giudetti A., Storelli E., Pieragostino D., Fournier I., Sannino A., Salzet M., Cerri F., Quattrini A., Maffia M., J Cell Physiol. (2018), 233(8):6207-6223. doi: 10.1002/jcp.26478, *Proteomic expression profile of injured rat peripheral nerves revealed biological networks and processes associated with nerve regeneration*.
- P35 Delcourt V.*, **Franck J.***, Quanico J., Gimeno J.P., Wisztorski M., Raffo-Romero A., Kobeissy F., Roucou X., Salzet M., Fournier I., Mol Cell Proteomics. (2018) Feb; 17(2):357-372. doi: 10.1074/mcp.M116.065755, *Spatially-Resolved Top-down Proteomics Bridged to MALDI MS Imaging Reveals the Molecular Physiome of Brain Regions*. (IF: 6.540)

2019

- P36 Vergara D., Nigro A., Romano A., De Domenico S., Damato M., **Franck J.**, Coricciati C., Wistorski M., Cardon T., Fournier I., Quattrini A., Salzet M., Furlan R., Maffia M., Cells (2019), 8(6). pii: E580. doi: 10.3390/cells8060580. *Distinct Protein Expression Networks are activated in Microglia Cells after Stimulation with IFN-γ and IL-4*.
- P37 Cardon T., Salzet M[✉], **Franck J.**[✉], Fournier I.[✉], Biochim Biophys Acta Gen Subj. (2019), 1863(10):1458-1470, doi: 10.1016/j.bbagen.2019.05.009. *Nuclei of HeLa cells interactomes unravel a network of ghost proteins involved in proteins translation*.
- P38 Raffo-Romero A., Arab T., Van Camp C., Lemaire Q., Wisztorski M., **Franck J.**, Aboulouard S., Le Marrec-Croq F., Sautiere P.E., Vizioli J., Salzet M., Lefebvre C., Sci Rep. (2019), 9(1):6896, doi: 10.1038/s41598-019-43328-x. *ALK4/5-dependent TGF-β signaling contributes to the crosstalk between neurons and microglia following axonal lesion*.
- P39 Giudetti A.M., De Domenico S., Ragusa A., Lunetti P., Gaballo A., **Franck J.**, Simeone P., Nicolardi G., De Nuccio F., Santino A., Capobianco L., Lanuti P., Fournier I., Salzet M., Maffia M., Vergara D., Biochim Biophys Acta Mol Cell Biol Lipids.(2019), 1864(3):344-357, doi: 10.1016/j.bbalip.2018.12.011. *A specific lipid metabolic profile is associated with the epithelial mesenchymal transition program*.
- P40 Simeone P., Trerotola M., **Franck J.**, Cardon T., Marchisio M., Fournier I., Salzet M., Maffia M., Vergara D. Semin Cancer Biol. (2019), 58:1-10, doi: 10.1016/j.semcancer.2018.11.004. Epub 2018 Nov 16. Review. *The multiverse nature of epithelial to mesenchymal transition*.

2020

- P41 Vergara D, Verri T, Damato M, Trerotola M, Simeone P, **Franck J**, Fournier I, Salzet M, Maffia M., Curr Pharm Des. 2020 Jan 28. doi: 10.2174/1381612826666200129091610. *A hidden human proteome signature characterizes the epithelial mesenchymal transition program*.
- P42 Vergara D, Ravaioli S, Fonzi E, Adamo L, Damato M, Bravaccini S, Pirini F, Gaballo A, Barbano R, Pasculli B, **Franck J**, Fournier I, Salzet M, Maffia M., Int J Mol Sci. 2020 Jan 22;21(3). pii: E715. doi: 10.3390/ijms21030715. *Carbonic Anhydrase XII Expression Is Modulated during Epithelial Mesenchymal Transition and Regulated through Protein Kinase C Signaling*.
- P43 Cardon T, Hervé F, Delcourt V, Roucou X, Salzet M, **Franck J**[✉], Fournier I[✉], Anal Chem. 2020 Jan 7;92(1):1122-1129. doi: 10.1021/acs.analchem.9b04188. Epub 2019 Dec 24, *Optimized Sample Preparation Workflow for Improved Identification of Ghost Proteins*
- P44 Cardon T*, **Franck J***, Coyaud E, Laurent E, Damato M, Maffia M, Vergara D, Fournier I, Salzet M, Nucleic acid Res., doi: 10.1093/nar/gkaa277. *Alternative Proteins are Functional Regulators in Cell Reprogramming by PKA Activation*

4.3 Book chapters

- B1 **Franck J.**, Wisztorski M., Fournier I., Salzet M., Methods in Molecular Biology (2010) 656, Part 3, 323-338, *On tissue proteins identification improvement by N-terminal peptides derivatization*

- B2 Wisztorski M., **Franck J.**, Salzet M., Fournier I., *Methods in Molecular Biology* (2010) 656, Part 3, 303-322, DOI: 10.1007/978-1-60761-746-4_18, *MALDI Direct Analysis and Imaging of Frozen versus FFPE Tissues: What Strategy for Which Sample*
- B3 Fournier I., **Franck J.**, Meriaux C., Salzet M., *Advances in Neurobiology* 2, Genomics, Proteomics, and the Nervous System (2010), Part 5, 537-556, *MALDI Imaging of Formalin-Fixed Paraffin-Embedded Tissues: Application to Model Animals of Parkinson Disease for Biomarker Hunting*
- B4 Quanico J., **Franck J.**, Wisztorski M., Salzet M., Fournier I., *Methods Biol.* (2016), *Methods Mol Biol.* 2017;1598:269-283. doi: 10.1007/978-1-4939-6952-4_13, *Combined MALDI Mass Spectrometry Imaging and Parafilm-Assisted Microdissection-Based LC-MS/MS Workflows in the Study of the Brain*
- B5 Quanico J., **Franck J.**, Wisztorski M., Salzet M., Fournier I., *Methods Biol.* (2016), *Methods Mol Biol.* 2017;1598:21-43. doi: 10.1007/978-1-4939-6952-4_2, *Progress and potential of imaging mass spectrometry applied to biomarker discovery*
- L6. Wisztorski M., Quanico J., **Franck J.**, Fatou B., Salzet M., Fournier I., *Methods in Molecular Biology*, (2017), *Methods and Protocols*, Ed. Cole L., *Methods Mol Biol.* 2017;1618:49-63. doi: 10.1007/978-1-4939-7051-3_6, *Droplet-based liquid extraction for spatially-resolved microproteomics analysis of tissue sections, Imaging Mass Spectrometry*

4.4 Invited conferences

- C1 **Franck J.**, Wisztorski M., Salzet M., Fournier I, 6 et 7 Juin 2013, Rio, Brésil, *On-tissue micro-extraction: The key to success for identification of less abundant proteins in MALDI-MSI*
- C2 **Franck J.**, 11 Juin 2018, Lecce (Italie), MS-Based proteomics for the characterization of ghost proteins.
- C7 **Franck J.**, FRABio, 2 Décembre 2015, Lille, France
- C8 **Franck J.**, Journée utilisateurs thermo, 3 Décembre 2015, Paris, France, Invitation
- C9 **Franck J.**, Journée Scientifique SFR Cancer, Décembre 2016, Faculté de médecine, Lille, Invitation

4.5 Conferences

- C3 **Franck J.**, Delcourt V., Salzet M., Roucou X., Fournier I., Septembre 2016, MSACL, Autriche, *Alternative proteins: the hidden world of potential biomarkers*
- C4 **Franck J.**, Delcourt V., Wisztorski M., Salzet M., Roucou X., Fournier I., Octobre 2016, Ourcon, Pologne, *MALDI-MSI based top down micro-proteomics: evidence of a hidden proteome*
- C5 **Franck J.**, Septembre 2017, HUPO, Irlande, *Alternative proteins: the hidden world of potential biomarkers*
- C6 **Franck J.**, Octobre 2017, SMMAP, France, *Alternative proteins: the hidden world of potential biomarkers*
- C7 **Franck J.**, Octobre 2019, Ourcon, France, *Bridging lipidomics, transcriptomics and proteomics by mass spectrometry imaging and spatially resolved multiomics*

4.6 Supervision of student

- Co-supervision of 3 PhD student
 - Vivian Delcourt in 2017
 - Tristan Cardon in 2018
 - Flore Herve in 2020
- 16 Master degree
- 3 Bachelor degree

4.7 Memberships committee

- 2016** Member of selection committee MC0322 for associate professor position, section 32-64, Université de Pau et des Pays de l'Adour (2016)
- 2018** Member of selection committee MCF 1029 for associate professor position, section 68, Université de Lille Sciences et Technologies

4.8 Scientific reviewing activity

Reviewing for: Rapid Communications in Mass Spectrometry, Analytical Chemistry, Journal of Proteomics, Journal of Proteomics Research, Molecular and Cellular Proteomics.

4.9 Grants

- 2019** IFCE project (Institut Français du Cheval et de l'Équitation), in charge of the MALDI Imaging part, 13k€
- 2018** START-AIRR, Diagnostic Assay Based on Aptamer-Tag System Combined to Mass Spectrometry Detection (BATMASS), responsible of the tagged antibodies production, 87 k€
- 2015** Subvention Bonus Qualité Recherche émergence (BQR), University of Lille1 ,17k€

4.10 Workshop and conference organisation

- 2016** Workshop, 18th EURON Research & Student DAYS, Mass Spectrometry Imaging, 14 Octobre 2016, Lille, France (16 Participants)
- 2016** Workshop « Mass spectrometry imaging » club jeune SFEAP, 27 Mai 2016 (10 participants)
- 2015** Workshop « Mass spectrometry imaging », 9èmes Journées Scientifiques du Réseau Français de Métabolomique et Fluxomique, 8 juin 2015, Lille, France (14 participants)
- 2014** Euron workshop, Octobre 2014 1st Master Class in Mass Spectrometry Imaging and Tissue Microproteomic, Université Lille 1, France (8 participants)
- 2014** Workshop “on Tissue Digestions step 3 Round Robin”, Lille, 25-27 juin 2014, Cost BM1104

5 Other activities

5.1 Teaching

Average teaching/year ~ 215 H

- 2020** Responsible of the Module « Méthodes d'études des partenaires d'interaction », master Bioinformatique & omics in Omics & Biologie des Systèmes (OSB), Univ Lille
- 2019** Memberships for the creation of the new module « Culture et Compétences numériques (CCN) », Univ-lille
- 2019** Director of the university diploma (DU) « Mass spectrometry ».
- 2015** Workshop in Mass spectrometry imaging Formation from June 17 to 19th 2015 (5 participants)
- 2015** Responsible of the Module « Projets biotechnologiques », master Biotechnologies, Univ Lille
- 2015** Responsible of the Module « STA5, Métabolomique : recherche de biomarqueurs et analyse fonctionnelle des réseaux métaboliques », master biology and health of Lille,
- 2014** Workshop in Mass spectrometry imaging from Avril 7th to 9th 2014 (8 participants)

5.2 Scientific network

Member of the french society of mass spectrometry (SFSM)

5.3 Local/national responsibilities

- Member of the mixed commission from the department of biology
- Health and security assistant, PRISM Inserm U1192
- Equipier de première intervention
- Member of the laboratory council, PRISM, Inserm U1192
- Co-supervisor of the chemical inventory, PRISM Inserm U1192
- Selection committee of the section 68, University of Lille