

## GENERAL INFORMATION

**Wisztorski Maxence, PhD**

**Associate Professor**

**Assistant Director of Clic-Imaging platform**

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### **PRISM - Inserm U1192**

Protéomique, Réponse Inflammatoire et Spectrométrie de Masse (PRISM),  
Université de Lille,

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[https://www.researchgate.net/profile/Maxence\\_Wisztorski](https://www.researchgate.net/profile/Maxence_Wisztorski)

<https://orcid.org/0000-0003-1320-075X>

**Specialist in Mass spectrometry and MS Imaging with a background in cell biology. Expert on MS-based proteomics and spatially resolved proteomics for cancer study**

## EDUCATION

**2006** PhD, Speciality "Biologie-santé", Université Lille 1

**2003** M2 proteomics, Université Lille 1

**1998-2002** Licence of Cell biology and physiology, Université Lille 1

## RESEARCH EXPERIENCE

**Since 2016** **Assistant Director** of Clic-Imaging core facility, University of Lille

**Since 2007** **Associate Professor**, University of Lille, Laboratoire PRISM, Inserm U1192

**2006 - 2007** **Assistant Professor**, University Lille 1, CNRS-UMR 8017, Pr. M. Salzet

**2003 - 2006** **PhD candidate**, Université Lille 1, Laboratoire de Neuroimmunologie des Annélides, CNRS-UMR 8017, Supervised by Pr. I. Fournier, Obtained 12/10/2006  
- MS-Imaging développment for invertebrate study

**2003 - 2006** **Master**, Université Lille 1 Laboratoire de Neuroimmunologie des Annélides, CNRS-UMR 8017, Pr. Isabelle Fournier,  
- Direct tissue and single cell analysis by MS.

## TEACHING ACTIVITIES

**Associate Professor**, Full position around 200hrs/year

Teaching activities in Cell biology, Animal biology, e-skills, Mass spectrometry and Proteomics

## TEACHING RESPONSABILITIES

**Responsible of Teaching Units** in Professional Master of Proteomics (M1 and M2) and in the new Master of Omics and Systems Biology

**Responsible** of the speciality "Clinics and Biology" for DU of Mass spectrometry

**Member of workgroup** for establishment of the Master of Omics and System Biology

Member of the **workgroup** for implementation of the teaching unit of CCN (e-skills)

## RESEARCH ACTIVITIES

### SCIENTIFIC OUTPUT

- **h-index** : 30, i10-index: 49, total citations : 2792 (Source : Google Scholar)
- **52 articles and 8 book chapters** (8 first or co-first author (\*) and 8 corresponding or last author (✉))
- **2 patents**
- **20 oral communications** including 6 on invitation in national and international conferences
- ORCID: [orcid.org/0000-0003-1320-075X](https://orcid.org/0000-0003-1320-075X)
- <https://scholar.google.com/citations?hl=en&user=HPib2VYAAAAJ>

### RESEARCH CONTRACTS

#### PI

<b>2019-2020</b>	CFQCU-Programme Samuel de Champlain, 11k€
<b>2019</b>	<b>Co-PI</b> , grant from GIS IBISA for CLIC-Imaging, 50k€
<b>2017</b>	<b>Co-PI</b> , grant from GIS IBISA for CLIC-Imaging, 50k€
<b>2015</b>	Bonus Quality Research for convergent research, University of Lille 1 ,20k€
<b>2012-2013</b>	Operational grant La Ligue contre le cancer, Microproteomics of tubo ovarian cancer, 20k€

#### ASSOCIATE

<b>2015-2019</b>	PHRC SENTIRAD (PHRC-1502)
<b>2015-2019</b>	ANR ASIO (ANR-14-CE16-0024), scientific coordinator of task 4, 175k€
<b>2015-2019</b>	Participant ANR REALITY MS (ANR-14-CE17-0021)
<b>2014-2018</b>	Participant COST action for MS Imaging
<b>2012-2015</b>	ANR inSIDE (ANR-12-JSV7-0009), 2012-2015, scientific coordinator task 4, 80k€
<b>2011-2015</b>	PHRC FIMBRIECTOMIE (PHRC-1106), 2011-2015
<b>2010-2013</b>	ANR MASDA-EYE, scientific coordinator task 2, 116k€

### INDUSTRIAL CONTRACTS

Several industrial contract through the platform CLIC-Imaging

### STUDENTS SUPERVISION

- 2 PhD candidates co-supervised (1 defended and 1 ongoing), participation in the supervision of 1 thesis
- 1 Post-doc supervision
- 11 M2 supervised since 2007 and 4 M1

### SCIENTIFIC AKNOWLEDGMENT & EXPERTISES

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## EXPERTISE (NATIONAL AND INTERNATIONAL AGENCIES)

- 2019** **Expert** for the French National Research Agency (ANR), France.
- 2018** **Committee member** for the recruitment of an associate professor, section 31, Université Paris-Sud (Poste 31MCF0875), France
- 2017** **Expert** for “Association nationale de la Recherche et de la Technologie” (ANRT, CIFRE), France
- 2015** **Expert** for “Fonds de la Recherche Scientifique (F.R.S.-FNRS), Belgium
- 2014** **Expert** for “Fonds pour la Formation à la recherche dans l’industrie et dans l’agriculture” (FRIA), Belgium
- 2011** **Expert** for “Association nationale de la Recherche et de la Technologie” (ANRT, CIFRE), France

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## THESIS COMMITTEES

- 2020** **Emmanuel COLSON**, supervised by Dr. P. Gerbaux, Laboratoire S<sup>2</sup>Mos, Université de Mons, Belgique, 18 Septembre 2020

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## EDITORIAL AND REVIEWS

**Associate editor** for Journal of Integrated OMICS

**Reviewer for international journals:** Rapid Communications in Mass Spectrometry, Electrophoresis, Analytical Chemistry, Expert Review of Proteomics, Journal of Proteomics, International Journal of Molecular Sciences, Bioanalysis

**Publons ID :** [publons.com/a/343819/](https://publons.com/a/343819/)

**2 Conferences Chair** in national (JFSM 2010) and international conference (Ourcon 2019)

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## RESPONSABILITIES

- Since 2019** Nominated member CNU (National Committee of Universities) section 68
- Since 2018** Nominated member of Biology Department council, University of Lille
- Since 2017** Co-supervisor of chemical management, PRISM, INSERM U1192
- 2016 - 2019** Elected board member of the French society of Mass Spectrometry (SFSM), webmaster
- Since 2016** Member of steering committee of « Plateformes en Biologie-Santé Protéomique et Spectrométrie de Masse de l’Université de Lille »
- Since 2015** Nominated member of lab council PRISM, Inserm U1192
- 2010-2018** Board Member of animal facility PHEXMAR, Université Lille 1
- Since 2010** Member of selection committee of University of Lille, section 68
- Since 2009** Local correspondent for IT and Network, University of Lille

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## PRIZES & DISTINCTIONS

- 2017** **Excellence Scientific Prime** (PEDR – first 20%, CNU Section 68)
- 2013** **Quebec Science price**, discovery of the year with Pr. X. Roucou, Québec Science (publication Vanderperre, B. et al., PLoS ONE 2013)

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## PUBLICATIONS LIST

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## 2020

[P52] Gonnet J, Poncelet L, Meriaux C, Gonçalves E, Weiss L, Tchitchek N, Pedruzzi E, Soria A, Boccara D, Vogt A, Bonduelle O, Hamm G, Ait-Belkacem R, Stauber J, Fournier I, **Wisztorski M**, Combadiere B. Mechanisms of innate events during skin reaction following intradermal injection of seasonal influenza vaccine. *J Proteomics*. (2020) ;216:103670. doi: 10.1016/j.jprot.2020.103670.

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## 2019

[P51] 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. Distinct Protein Expression Networks are Activated in Microglia Cells after Stimulation with IFN- $\gamma$  and IL-4. *Cells*. (2019);8(6):580. doi: 10.3390/cells8060580.

[P50] Raffo-Romero A, Arab T, Van Camp C, Lemaire Q, **Wisztorski M**, Franck J, Aboulouard S, Le Marrec-Croq F, Sautiere PE, Vizioli J, Salzet M, Lefebvre C. ALK4/5-dependent TGF- $\beta$  signaling contributes to the crosstalk between neurons and microglia following axonal lesion. *Sci Rep*. (2019) ;9(1):6896. doi:10.1038/s41598-019-43328-x.

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## 2018

[P49] Duhamel M, Rose M, Rodet F, Murgoci AN, Zografidou L, Régnier-Vigouroux A, Abeele FV, Kobeissy F, Nataf S, Pays L, **Wisztorski M**, Cizkova D, Fournier I, Salzet M. Paclitaxel Treatment and Proprotein Convertase 1/3 (PC1/3) Knockdown in Macrophages is a Promising Antiglioma Strategy as Revealed by Proteomics and Cytotoxicity Studies. *Mol Cell Proteomics*. (2018); 17(6):1126-1143. doi:10.1074/mcp.RA117.000443.

[P48] Delcourt V, Franck J, Quanico J, Gimeno JP, **Wisztorski M**, Raffo-Romero A, Kobeissy F, Roucou X, Salzet M, Fournier I. Spatially-Resolved Top-down Proteomics Bridged to MALDI MS Imaging Reveals the Molecular Physiome of Brain Regions. *Mol Cell Proteomics*. (2018);17(2):357-372. doi: 10.1074/mcp.M116.065755.

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## 2017

[P47] Delcourt V, Franck J, Leblanc E, Narducci F, Robin YM, Gimeno JP, Quanico J, **Wisztorski M**, Kobeissy F, Jacques JF, Roucou X, Salzet M, Fournier I. Combined Mass Spectrometry Imaging and Top-down Microproteomics Reveals Evidence of a Hidden Proteome in Ovarian Cancer. *EBioMedicine*. (2017);21:55-64. doi: 10.1016/j.ebiom.2017.06.001.

[P46] Quanico J, Franck J, **Wisztorski M**, Salzet M, Fournier I. Integrated mass spectrometry imaging and omics workflows on the same tissue section using grid-aided, parafilm-assisted microdissection. *Biochim Biophys Acta Gen Subj*. (2017) ;1861(7):1702-1714. doi: 10.1016/j.bbagen.2017.03.006.

[P45] Le Rhun E, Duhamel M, **Wisztorski M**, Gimeno JP, Zairi F, Escande F, Reyns N, Kobeissy F, Maurage CA, Salzet M, Fournier I. Evaluation of non-supervised MALDI mass spectrometry imaging combined with microproteomics for glioma grade III classification. *Biochim Biophys Acta Proteins Proteom*. (2017) Jul;1865(7):875-890. doi: 10.1016/j.bbapap.2016.11.012.

[P44] Quanico J, Franck J, Cardon T, Leblanc E, **Wisztorski M**, Salzet M, Fournier I. NanoLC-MS coupling of liquid microjunction microextraction for on-tissue proteomic analysis. *Biochim Biophys Acta Proteins Proteom*. (2017);1865(7):891-900. doi: 10.1016/j.bbapap.2016.11.002.

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## 2016

[P43] 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. 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. *Mol Cell Proteomics*. (2016) ;15(8):2641-70. doi: 10.1074/mcp.M115.057794.

[P42] Fatou B, Saudemont P, Leblanc E, Vinatier D, Mesdag V, **Wisztorski M**, Focsa C, Salzet M, Ziskind M, Fournier I. In vivo Real-Time Mass Spectrometry for Guided Surgery Application. *Sci Rep*. (2016); 6:25919. doi: 10.1038/srep25919.

[P41] Duhamel M, Rodet F, Murgoci A, **Wisztorski M**, Day R, Fournier I, Salzet M. Proprotein convertase 1/3 inhibited macrophages: A novel therapeutic based on drone macrophages. *EuPA Open Proteom*. (2016); 11:20-22. doi: 10.1016/j.euprot.2016.03.003.

[P40] **Wisztorski M\***, Desmons A, Quamico J, Fatou B, Gimeno JP, Franck J, Salzet M, Fournier I. Spatially-resolved protein surface microsampling from tissue sections using liquid extraction surface analysis. *Proteomics*. (2016);16(11-12):1622-32. doi: 10.1002/pmic.201500508.

[P39] Duhamel M, Rodet F, Murgoci AN, Desjardins R, Gagnon H, **Wisztorski M**, Fournier I, Day R, Salzet M. The proprotein convertase PC1/3 regulates TLR9 trafficking and the associated signaling pathways. *Sci Rep*. (2016);6:19360. doi: 10.1038/srep19360.

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## 2015

[P38] Fatou B, **Wisztorski M**, Focsa C, Salzet M, Ziskind M, Fournier I. Substrate-Mediated Laser Ablation under Ambient Conditions for Spatially-Resolved Tissue Proteomics. *Sci Rep*. (2015);5:18135. doi: 10.1038/srep18135.

[P37] Demeyer M, **Wisztorski M**, Decroo C, De Winter J, Caulier G, Hennebert E, Eeckhaut I, Fournier I, Flammang P, Gerbaux P. Inter- and intra-organ spatial distributions of sea star saponins by MALDI imaging. *Anal Bioanal Chem*. (2015); 407(29):8813-24. doi: 10.1007/s00216-015-9044-0.

[P36] Grulova I, Slovinska L, Blaško J, Devaux S, **Wisztorski M**, Salzet M, Fournier I, Kryukov O, Cohen S, Cizkova D. Delivery of Alginate Scaffold Releasing Two Trophic Factors for Spinal Cord Injury Repair. *Sci Rep*. (2015) ;5:13702. doi: 10.1038/srep13702.

[P35] Duhamel M, Rodet F, Delhem N, Vanden Abeele F, Kobeissy F, Nataf S, Pays L, Desjardins R, Gagnon H, **Wisztorski M**, Fournier I, Day R, Salzet M. Molecular Consequences of Proprotein Convertase 1/3 (PC1/3) Inhibition in Macrophages for Application to Cancer Immunotherapy: A Proteomic Study. *Mol Cell Proteomics*. (2015); 14(11):2857-77. doi: 10.1074/mcp.M115.052480.

[P34] Kopp C, **Wisztorski M\***, Revel J, Mehiri M, Dani V, Capron L, Carette D, Fournier I, Massi L, Mouajjah D, Pagnotta S, Priouzeau F, Salzet M, Meibom A, Sabourault C. MALDI-MS and NanoSIMS imaging techniques to study cnidarian- dinoflagellate symbioses. *Zoology (Jena)*. (2015); 118(2):125-31. doi:10.1016/j.zool.2014.06.006.

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## 2014

[P33] Le Marrec-Croq F, Bocquet-Garcon A, Vizioli J, Vancamp C, Drago F, Franck J, **Wisztorski M**, Salzet M, Sautiere PE, Lefebvre C. Calreticulin contributes to C1q-dependent recruitment of microglia in the leech *Hirudo medicinalis* following a CNS injury. *Med Sci Monit*. (2014);20:644-53. doi: 10.12659/MSM.890091.

[P32] Diologent L, Franck J, **Wisztorski M**, Treizebre A, Focsa C, Fournier I, Ziskind M. On the origin of increased sensitivity and mass resolution using silicon masks in MALDI. *Anal Chem*. (2014);86(3):1404-13. doi: 10.1021/ac401329r.

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## 2013

[P31] Vanderperre B, Lucier JF, Bissonnette C, Motard J, Tremblay G, Vanderperre S, **Wisztorski M**, Salzet M, Boisvert FM, Roucou X. Direct detection of alternative open reading frames translation products in

human significantly expands the proteome. *PLoS One*. (2013);8(8):e70698. doi: 10.1371/journal.pone.0070698.

[P30] Franck J, Quanico J, **Wisztorski M**, Day R, Salzet M, Fournier I. Quantification-based mass spectrometry imaging of proteins by parafilm assisted microdissection. *Anal Chem*. (2013);85(17):8127-34. doi: 10.1021/ac4009397.

[P29] Longuespée R, Gagnon H, Boyon C, Strupat K, Dauly C, Kerdraon O, Ighodaro A, Desmons A, Dupuis J, **Wisztorski M**, Vinatier D, Fournier I, Day R, Salzet M. Proteomic analyses of serous and endometrioid epithelial ovarian cancers – cases studies - molecular insights of a possible histological etiology of serous ovarian cancer. *Proteomics Clin Appl*. (2013); 7(5-6):337-54. doi: 10.1002/prca.201200079.

[P28] **Wisztorski M** , Fatou B, Franck J, Desmons A, Farré I, Leblanc E, Fournier I, Salzet M. Microproteomics by liquid extraction surface analysis: application to FFPE tissue to study the fimbria region of tubo-ovarian cancer. *Proteomics Clin Appl*. (2013); 7(3-4):234-40. doi: 10.1002/prca.201200070.

[P27] Quanico J, Franck J, Dauly C, Strupat K, Dupuy J, Day R, Salzet M, Fournier I, **Wisztorski M**. Development of liquid microjunction extraction strategy for improving protein identification from tissue sections. *J Proteomics*. (2013); 79:200-18. doi: 10.1016/j.jprot.2012.11.025.

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## 2012

[P26] Brignole-Baudouin F, Desbenoit N, Hamm G, Liang H, Both JP, Brunelle A, Fournier I, Guerineau V, Legouffe R, Stauber J, Touboul D, **Wisztorski M**, Salzet M, Laprevote O, Baudouin C. A new safety concern for glaucoma treatment demonstrated by mass spectrometry imaging of benzalkonium chloride distribution in the eye, an experimental study in rabbits. *PLoS One*. (2012); 7(11):e50180. doi: 10.1371/journal.pone.0050180.

[P25] Gagnon H, Franck J, **Wisztorski M**, Day R, Fournier I, Salzet M. Targeted mass spectrometry imaging: specific targeting mass spectrometry imaging technologies from history to perspective. *Prog Histochem Cytochem*. (2012); 47(3):133-74. doi: 10.1016/j.proghi.2012.08.002.


[P24] Longuespée R, Boyon C, Desmons A, Vinatier D, Leblanc E, Farré I, **Wisztorski M**, Ly K, D'Anjou F, Day R, Fournier I, Salzet M. Ovarian cancer molecular pathology. *Cancer Metastasis Rev*. (2012); 31(3-4):713-32. doi: 10.1007/s10555-012-9383-7.

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## 2011

[P23] Bruand J, Alexandrov T, Sistla S, **Wisztorski M**, Meriaux C, Becker M, Salzet M, Fournier I, Macagno E, Bafna V. AMASS: algorithm for MSI analysis by semi-supervised segmentation. *J Proteome Res*. 2011 Oct 7;10(10):4734-43. doi: 10.1021/pr2005378.

[P22] Meriaux C, Arafah K, Tasiemski A, **Wisztorski M**, Bruand J, Boidin-Wichlacz C, Desmons A, Debois D, Laprevote O, Brunelle A, Gaasterland T, Macagno E, Fournier I, Salzet M. Multiple changes in peptide and lipid expression associated with regeneration in the nervous system of the medicinal leech. *PLoS One*. (2011); 6(4):e18359. doi: 10.1371/journal.pone.0018359.

[P21] Van Dyck S, Caulier G, Todesco M, Gerbaux P, Fournier I, **Wisztorski M** , Flammang P. The triterpene glycosides of *Holothuria forskali*: usefulness and efficiency as a chemical defense mechanism against predatory fish. *J Exp Biol*. (2011); 214(Pt 8):1347-56. doi: 10.1242/jeb.050930.

[P20] Bruand J, Sistla S, Mériaux C, Dorrestein PC, Gaasterland T, Ghassemian M, **Wisztorski M**, Fournier I, Salzet M, Macagno E, Bafna V. Automated querying and identification of novel peptides using MALDI mass spectrometric imaging. *J Proteome Res*. (2011);10(4):1915-28. doi: 10.1021/pr101159e.

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## 2010

- [P19] Van Dyck S, Flammang P, Meriaux C, Bonnel D, Salzet M, Fournier I, **Wisztorski M**<sup>✉</sup>. Localization of secondary metabolites in marine invertebrates: contribution of MALDI MSI for the study of saponins in Cuvierian tubules of *H. forskali*. *PLoS One*. (2010); 5(11):e13923. doi: 10.1371/journal.pone.0013923.
- [P18] van Remoortere A, van Zeijl RJ, van den Oever N, Franck J, Longuespée R, **Wisztorski M**, Salzet M, Deelder AM, Fournier I, McDonnell LA. MALDI imaging and profiling MS of higher mass proteins from tissue. *J Am Soc Mass Spectrom*. (2010); 21(11):1922-9. doi: 10.1016/j.jasms.2010.07.011.
- [P17] Franck J, Longuespée R, **Wisztorski M**, Van Remoortere A, Van Zeijl R, Deelder A, Salzet M, McDonnell L, Fournier I. MALDI mass spectrometry imaging of proteins exceeding 30,000 daltons. *Med Sci Monit*. (2010); 16(9):BR293-9.
- [P16] Meriaux C, Franck J, **Wisztorski M**, Salzet M, Fournier I. Liquid ionic matrixes for MALDI mass spectrometry imaging of lipids. *J Proteomics*. (2010); 73(6):1204-18. doi: 10.1016/j.jprot.2010.02.010.
- [P15] Stauber J, MacAleese L, Franck J, Claude E, Snel M, Kaletas BK, Wiel IM, **Wisztorski M**, Fournier I, Heeren RM. On-tissue protein identification and imaging by MALDI-ion mobility mass spectrometry. *J Am Soc Mass Spectrom*. (2010);21(3):338-47. doi: 10.1016/j.jasms.2009.09.016.

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## 2009

- [P14] Stauber J, El Ayed M, **Wisztorski M**, Day R, Fournier I, Salzet M. Polymerase chain reaction and immunoassay--matrix assisted laser desorption mass spectrometry using tag-mass technology: new tools to break down quantification limits and multiplexes. *Anal Chem*. (2009); 81(22):9512-21. doi:10.1021/ac901416s.
- [P13] Franck J, El Ayed M, **Wisztorski M**, Salzet M, Fournier I. On-tissue N-terminal peptide derivatizations for enhancing protein identification in MALDI mass spectrometric imaging strategies. *Anal Chem*. (2009);81(20):8305-17. doi: 10.1021/ac901043n.
- [P12] Fournier, I., Julien, F., Wisztorski, M., Macagno, E., Salzet, M. MALDI imaging: A review of the current status of the technology. *Neuroscience Imaging*, (2009). 3 (1), 19-31.
- [P11] Franck J, Arafah K, Barnes A, **Wisztorski M**, Salzet M, Fournier I. Improving tissue preparation for matrix-assisted laser desorption ionization mass spectrometry imaging. Part 1: using microspotting. *Anal Chem*. (2009); 81(19):8193-202. doi: 10.1021/ac901328p. PMID: 19722499.
- [P10] Franck J, Arafah K, Elayed M, Bonnel D, Vergara D, Jacquet A, Vinatier D, **Wisztorski M**, Day R, Fournier I, Salzet M. MALDI imaging mass spectrometry: state of the art technology in clinical proteomics. *Mol Cell Proteomics*. (2009);8(9):2023-33. doi: 10.1074/mcp.R800016-MCP200.

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## 2008

- [P9] Jardin-Mathé O, Bonnel D, Franck J, **Wisztorski M**, Macagno E, Fournier I, Salzet M. MITICS (MALDI Imaging Team Imaging Computing System): a new open source mass spectrometry imaging software. *J Proteomics*. (2008);71(3):332-45. doi: 10.1016/j.jprot.2008.07.004.
- [P8] Fournier I, Wisztorski M, Salzet M. Tissue imaging using MALDI-MS: a new frontier of histopathology proteomics. *Expert Rev Proteomics*. (2008); 5(3):413-24. doi:10.1586/14789450.5.3.413.
- [P7] **Wisztorski M\***, Croix D, Macagno E, Fournier I, Salzet M. Molecular MALDI imaging: an emerging technology for neuroscience studies. *Dev Neurobiol*. (2008);68(6):845-58. doi: 10.1002/dneu.20623.
- [P6] Stauber J, Lemaire R, Franck J, Bonnel D, Croix D, Day R, Wisztorski M, Fournier I, Salzet M. MALDI imaging of formalin-fixed paraffin-embedded tissues: application to model animals of Parkinson disease for biomarker hunting. *J Proteome Res*. (2008); 7(3):969-78. doi: 10.1021/pr070464x.

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## 2007

[P5] **Wisztorski M\***, Lemaire R, Stauber J, Menguelet SA, Croix D, Mathé OJ, Day R, Salzet M, Fournier I. New developments in MALDI imaging for pathology proteomic studies. *Curr Pharm Des.* (2007);13(32):3317-24. doi: 10.2174/138161207782360672.

[P4] **Wisztorski M\***, Lemaire R, Stauber J, Ait Menguellet S, Jardin-Mathé O, Day R, Salzet M, Fournier I. Imagerie MALDI: une nouvelle technologie pour découvrir et valider de nouveaux biomarqueurs [MALDI imaging: a new technology to discover and validate new biomarkers]. *Med Sci (Paris).* (2007);23 Spec No 1:31-6. French. doi: 10.1051/medsci/2007231s31.

[P3] Lemaire R, Stauber J, **Wisztorski M**, Van Camp C, Desmons A, Deschamps M, Proess G, Rudlof I, Woods AS, Day R, Salzet M, Fournier I. Tag-mass: specific molecular imaging of transcriptome and proteome by mass spectrometry based on photocleavable tag. *J Proteome Res.* (2007); 6(6):2057-67. doi: 10.1021/pr0700044.

[P2] Dreisewerd K, Lemaire R, Pohlentz G, Salzet M, **Wisztorski M**, Berkenkamp S, Fournier I. Molecular profiling of native and matrix-coated tissue slices from rat brain by infrared and ultraviolet laser desorption/ionization orthogonal time-of-flight mass spectrometry. *Anal Chem.* (2007); 79(6):2463-71. doi: 10.1021/ac061768q.

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## 2006

[P1] Lemaire R, **Wisztorski M**, Desmons A, Tabet JC, Day R, Salzet M, Fournier I. MALDI-MS direct tissue analysis of proteins: Improving signal sensitivity using organic treatments. *Anal Chem.* (2006); 78(20):7145-53. doi: 10.1021/ac060565z

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## PATENTS

[B1] M. Wisztorski, V. Thomy, N. Verplanck, I. Fournier, M. Salzet (inventors), CNRS (owner) Masks Useful for MALDI Imaging of Tissue Sections, Processes of Manufacture and Uses Thereof, Patent Number: WO2007128751

[B2] I. Fournier, B. Fatou, M. Wisztorski, C. Focsa, M. Ziskind, M. Salzet (inventors), Device for real-time in vivo molecular analysis, Patent Number: WO2016046748

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## BOOK CHAPTERS

[L8] **Wisztorski M\***✉, Quanico J, Franck J, Fatou B, Salzet M, Fournier I. Droplet-Based Liquid Extraction for Spatially-Resolved Microproteomics Analysis of Tissue Sections. *Methods Mol Biol.* (2017); 1618:49-63. doi: 10.1007/978-1-4939-7051-3\_6. PMID: 28523499.

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