Dr Marie HUBERT-ROUX

Research Engineer
Analysis and modelling team
Mass spectrometry and separation sciences group
Tel : +33 (0)2 35 52 29 24 E-mail : marie.hubert@univ-rouen.fr
Orcid ID : 0000-0003-4986-4590

PROFESSIONNAL EXPERIENCES

2005-	University of Rouen, Research Engineer, hold
2000-2005	University of Rouen, Research Engineer, contract
1998-1999	Sanofi-Synthélabo, Longjumeau (91), scientist in the Laboratory of Analytical Development
1998	Centre International de Toxicologie, Evreux (27), scientist in the Laboratory of Analytical Chemistry

EDUCATION

1998	PhD Analytical Chemistry (University of Rouen)
1995	MSc Organic Chemistry (University of Rouen)
1992	Bsc Chemistry (DUT, University of Maine)

ADMINISTRATIVE & INSTITUTIONAL RESPONSIBILITIES

2016-	Operational manager of Carnot I2C – Analysis department
2014-	Technical manager in Mass Spectrometry of C2IOrga
2011-	Member of the council of CNRS-COBRA Laboratory.

RESEARCH INTERESTS

- Mass Spectrometry
- Ion mobility Spectrometry
- Petroleomics
- Polymer
- Complex organic mixtures

SCIENTIFIC ACHIEVEMENTS

Academic record (h-index: 12)
52 publications, 6 invited lectures (academia & industry)

Exemples d'autres rubriques possibles (sans restriction de place)

PUBLICATIONS

1. Le Maître, Johann, Hubert-Roux, Marie, Paupy, Benoit, Marceau, Sabrina, Rüger, Christopher, Afonso, Carlos, Giusti, Pierre "Structural Analysis of Neutral Nitrogen Compounds Refractory to the Hydrodenitrogenation Process of Heavy Oil Fractions by High-Resolution Tandem Mass Spectrometry and Ion Mobility–Mass Spectrometry." Energy & Fuels, **2020**, 34, 9328-38, . doi : https://doi.org/10.1021/acs.energyfuels.0c01160
2. Lacroix-Andrivet, O., Hubert-Roux, M, Mendes Siqueira, A L, Bai, Y., Afonso, C. Comparison of Silica and Cellulose Stationary Phases to Analyze Bitumen by High-Performance Thin-Layer Chromatography Coupled to Laser Desorption Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry." Energy & Fuels, **2020**, 34, 9296-9303 doi : https://doi.org/10.1021/acs.energyfuels.0c00709
3. Beaumesnil, M, Mendes Siqueira, A. L., Hubert-Roux, M., Loutelier-Bourhis, C. Afonso, C., Racaud, A , Bai, Y. High Performance Thin Layer Chromatography with Atmospheric Solid Analysis Probe Mass Spectrometry for Analysis of Gasoline Polymeric Additives. , *Rapid Commun. Mass Spectrom.* **2020**, doi : :https://doi.org/10.1002/rcm.8755
4. Structural analysis of heavy oil fractions after hydrodenitrogenation by high-resolution tandem mass spectrometry and ion mobility spectrometry." Le Maître, Johann, Hubert-Roux, Marie, Paupy, Benoit, Marceau, Sabrina, Rüger, Christopher, Afonso, Carlos, Giusti, Pierre, *Faraday Discussions*, **2019**, 218, 417-430
5. Characterization of polyalphaolefins using halogen anion attachment in atmospheric pressure photoionization coupled with ion mobility spectrometry-mass spectrometry." Mendes Siqueira, A. L., Beaumesnil, M. Hubert-Roux, M., Loutelier-Bourhis, C. Afonso, C., Pondaven, S., Bai, Y. Racaud, A., *Analyst*, **2018**, 143(16), 3934-3940.
6. Determination of multimodal isotopic distributions : the case of a ^{15}N labeled protein produced into hairy roots" Romain Trouillard, Marie Hubert-Roux, Vincent Tognetti, Laure Guilhaudis, Carole Plasson, Laurence Menu-Bouaouiche, Laurent Coquet, François Guérineau, Julie Hardouin, Jean-Pierre Ele Ekouna, Pascal Cosette, Patrice Lerouge, Michèle Boitel-Conti, Carlos Afonso, Isabelle Ségalas-Milazzo, *Anal. Chem.*, **2015**, 87, 5938-5946.
7. Evaluation of atmospheric solid analysis probe ionization coupled to ion mobility mass spectrometry for characterization of poly(ether ether ktone)polymers, Emilie Cossoul, Marie Hubert-Roux, Muriel Sebban, Florence Churlaud, Hassan Oulyadi, Carlos Afonso, *Analytica Chimica Acta*, **2015**, 856, 46-53.
8. Direct TLC/MALDI-MS coupling for modified polyamidoamine dendrimers analyses, Emma-Dune Leriche, Marie Hubert-Roux, Martin C. Grossel, Catherine M. Lange, Carlos Afonso, Corinne Loutelier-Bourhis, *Analytica Chimica Acta*, **2014**, 808, 144-150.
9. Enantiomers differentiation of aromatic amino acids by traveling wave ion mobility – mass spectrometry, Virginie Domalain, Marie Hubert-Roux, Vincent Tognetti, Laurent Joubert, Catherine M. Lange, Jacques Rouden, and Carlos Afonso, *Chemical science*, **2014**, **5, 3234-3239.**
10. Identification of tiagabine degradation products using liquid chromatography with electrospray ionization multistage mass spectrometry and ultra-performance liquid chromatography/high resolution mass spectrometry, M. Hubert-Roux, M. Skiba, A. Sughir, M. Lahiani-Skiba, F. Olivier-Chanu, V. Levacher and C. M. Lange, *Rapid Commun. Mass Spectrom.*, **2012**, 26, 287-296.