

LONGUESPÉE, RÉMI, PHD

GENERAL INFORMATION

Leader of functional area
Heidelberg University Hospital
Department of clinical pharmacology and pharmacoepidemiology
Im Neuenheimer Feld 410, 69120 Heidelberg, Germany

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ACADEMIC EDUCATION & QUALIFICATION

| Year(s) | Education |
|---------|--|
| 2012 | PhD in Biochemistry, University of Sherbrooke (CA) |
| 2012 | PhD in Life Sciences, University of Lille (FR) |
| 2009 | M.Sc Proteomics, University of Lille (FR) |

SCIENTIFIC EDUCATION & QUALIFICATION

| Year(s) | Education |
|-----------|--|
| 2005-2007 | Studies in cell biology and physiology, genomics and proteomics. |

PROFESSIONAL EXPERIENCE

| Year(s) | Education |
|-----------|---|
| 2019- | Leader of the functional area for mass spectrometric (MS) imaging and on-surface MS analyses, Department of Clinical Pharmacology and Pharmacoepidemiology, Heidelberg University Hospital. |
| 2016-2018 | Project leader, Institute of pathology, Heidelberg University Hospital. |
| 2015-2016 | Research Scientist, Proteopath GmbH, Trier (DE) |
| 2012-2015 | Research Scientist, Mass spectrometry laboratory, University of Liège (BE) |

OTHER QUALIFICATIONS/ROLES/RESPONSIBILITIES

| Year(s) | |
|---------|---|
| 2013- | Member of the American Society for Mass Spectrometry |
| 2011 | Finalist of the Young investigator award, HUPO organization |

SELECTED PUBLICATIONS

- Fresnais, M.; Muck, A.; Majewsky, M.; Statz, B.; Krausert, S.; Benzell, J.; Castel, D.; Le Dret, L.; Pfister, S.; Haefeli, W. E.; Burhenne, J.; Longuespée, R., Rapid and Sensitive Drug Quantification in Tissue Sections Using Matrix Assisted Laser Desorption Ionization-Ion Mobility-Mass Spectrometry Profiling. **J Am Soc Mass Spectrom** 2020.
- Fresnais, M.; Haefeli, W. E.; Burhenne, J.; Longuespée, R., Rapid drug detection in whole blood droplets using a DESI static profiling approach - a proof of concept. **Rapid Commun Mass Spectrom** 2019.
- Pottier, C.; Kriegsmann, M.; Alberts, D.; Smargiasso, N.; Baiwir, D.; Mazzucchelli, G.; Herfs, M.; Fresnais, M.; Casadonte, R.; Delvenne, P.; De Pauw, E.; Longuespée, R., Microproteomic Profiling of High-Grade Squamous Intraepithelial Lesion of the Cervix: Insight into Biological Mechanisms of Dysplasia and New Potential Diagnostic Markers. **Proteomics Clin Appl** 2019, 13 (1), e1800052.
- Longuespée, R.; Ly, A.; Casadonte, R.; Schwamborn, K.; Kazdal, D.; Zgorzelski, C.; Bollwein, C.; Kriegsmann, K.; Weichert, W.; Kriegsmann, J.; Schirmacher, P.; Fresnais, M.; Oliveira, C.; Kriegsmann, M., Identification of MALDI Imaging Proteolytic Peptides Using LC-MS/MS-Based Biomarker Discovery Data: A Proof of Concept. **Proteomics Clin Appl** 2019, 13 (1), e1800158.
- Longuespée, R.; Casadonte, R.; Schwamborn, K.; Kriegsmann, M., Proteomics in Pathology: The Special Issue. **Proteomics Clin Appl** 2019, 13 (1), e1800167.
- Reglodi, D.; Jungling, A.; Longuespée, R.; Kriegsmann, J.; Casadonte, R.; Kriegsmann, M.; Juhasz, T.; Bardosi, S.; Tamas, A.; Fulop, B. D.; Kovacs, K.; Nagy, Z.; Sparks, J.; Miseta, A.; Mazzucchelli, G.; Hashimoto, H.;

Bardosi, A., Accelerated pre-senile systemic amyloidosis in PACAP knockout mice - a protective role of PACAP in age-related degenerative processes. **J Pathol** 2018, 245 (4), 478-490.

7. Longuespée, R.*; Wefers, A. K.*; De Vita, E.; Miller, A. K.; Reuss, D. E.; Wick, W.; Herold-Mende, C.; Kriegsmann, M.; Schirmacher, P.; von Deimling, A.; Pusch, S., Rapid detection of 2-hydroxyglutarate in frozen sections of IDH mutant tumors by MALDI-TOF mass spectrometry. **Acta Neuropathol Commun** 2018, 6 (1), 21.

8. Longuespée, R.; Alberts, D.; Baiwir, D.; Mazzucchelli, G.; Smargiasso, N.; De Pauw, E., MALDI Imaging Combined with Laser Microdissection-Based Microproteomics for Protein Identification: Application to Intratumor Heterogeneity Studies. **Methods Mol Biol** 2018, 1788, 297-312.

9. Herfs, M.*; Longuespée, R.*; Quick, C. M.; Roncarati, P.; Suarez-Carmona, M.; Hubert, P.; Lebeau, A.; Bruyere, D.; Mazzucchelli, G.; Smargiasso, N.; Baiwir, D.; Lai, K.; Dunn, A.; Obregon, F.; Yang, E. J.; Pauw, E.; Crum, C. P.; Delvenne, P., Proteomic signatures reveal a dualistic and clinically relevant classification of anal canal carcinoma. **J Pathol** 2017, 241 (4), 522-533.

10. Longuespée, R.; Alberts, D.; Pottier, C.; Smargiasso, N.; Mazzucchelli, G.; Baiwir, D.; Kriegsmann, M.; Herfs, M.; Kriegsmann, J.; Delvenne, P.; De Pauw, E., A laser microdissection-based workflow for FFPE tissue microproteomics: Important considerations for small sample processing. **Methods** 2016, 104, 154-62.

*shared first authors