Abdelkrim Azmi

Translational Neurobiology Group
Department of Molecular Genetics, VIB
University of Antwerp

BSc in Biology of Organisms and Populations, University Pierre and Marie Curie, 1989
MSc in Biology of Organisms and Populations, University Pierre and Marie Curie, 1991
PhD in Cellular and Molecular Physiology, University Pierre and Marie Curie, 1999

Current Position
Research Associate at Department of Molecular Genetics, VIB, since 2014.

E-mail: abdelkrim.azmi@molgen.vib-ua.be
Phone: +32 3 265 1057

Keywords
Chromatography, protein, metabolite, mass spectrometry, proteomics, metabolomics, protein chemistry, mass-tag labelling, biomarkers, plasma, iTRAQ, SILAC

Science
Presently my work primarily consists of: protein sample preparation for mass spectrometry; high-performance liquid chromatography; quantitative mass tag labelling based proteomics; quantitative metabolomics; molecular biology. My current work is strongly linked with the quantitative discovery of the molecular signatures, in tissues, human biofluids or cells, of major neurodegenerative diseases. These molecular signatures comprise the most predictive series of protein factors that can specifically define a disease process. In addition to primary data generation I am closely involved with secure data management and bioinformatics analysis. In accordance with the therapeutic goals of the Translational Neurobiology Group my research is targeted towards the rational development of G protein-coupled receptor-based treatments of neurodegenerative brain diseases including Frontotemporal Lobar Dementia as well as Alzheimer's, Parkinson's and Huntington's disease.

Recent Fellowships

Selected Publications
Janssens J, Etienne H, Idriss S, **Azmi A**, Martin B, Maudsley S. (2014). Systems-level G protein-coupled receptor therapy across a neurodegenerative continuum by the GLP-1 receptor system. Front Endocrinol. 5, 142 (PMID Pending).

Delporte A, De Zaeytijd J, De Storme N, **Azmi A**, Geelen D, Smagghe G, Guisez Y, Van Damme EJ. Cell cycle-dependent O-GlcNAc modification of tobacco histones and

their interaction with the tobacco lectin. Plant Physiol Biochem. 83C:151-158 (2014). PMID: 25146688

Almeida-Souza L, Asselbergh B, d'Ydewalle C, Moonens K, Goethals S, de Winter V, **Azmi A**, Irobi J, Timmermans JP, Gevaert K, Remaut H, Van Den Bosch L, Timmerman V, Janssens S. Small heat-shock protein HSPB1 mutants stabilize microtubules in Charcot-Marie-Tooth neuropathy. J Neurosci. 31(43):15320-8 (2011) PMID: 22031878

Hauben M, Haesendonckx B, Standaert E, Van Der Kelen K, **Azmi A**, Akpo H, Van Breusegem F, Guisez Y, Bots M, Lambert B, Laga B, De Block M. Energy use efficiency is characterized by an epigenetic component that can be directed through artificial selection to increase yield. Proc Natl Acad Sci U S A. 106(47):20109-14 (2009) PMID: 19897729

All Publications Link
http://www.ncbi.nlm.nih.gov/pubmed/?term=abdelkrim+azmi