

PERSONAL INFORMATION Cedric Delporte

WORK EXPERIENCE

- October 2008-September 2012 **FNRS Fellow - PhD student**
FRS-FNRS / ULB Faculty of Pharmacy (Belgium)
PhD thesis - Proteomics and MS based analytical development
- November 2012-June 2013 **Postdoc - Mass spectrometrist**
NIBRT - National Institute for Bioprocessing Research and Training (Ireland)
Development of MS based analytical methods for biotherapeutic analysis (particularly glycans analysis) and training.
- July 2013-September 2017 **Postdoc**
ULB - Faculty of Pharmacy - Analytical Platform (Belgium)
Development of MS based analytical methods for proteomics, glycomics, lipidomics, small drug analysis
- October 2017-September 2020 **Professor Associate**
ULB - Faculty of Pharmacy - Pharmacognosy, Bioanalysis and Drug Discovery, Analytical Platform (Belgium)
Responsible of biotherapeutic drug teaching and analytical development
- October 2020- Present **Professor**
ULB - Faculty of Pharmacy - Pharmacognosy, Bioanalysis and Drug Discovery, Analytical Platform (Belgium)
Responsible of biotherapeutic drug teaching and analytical development

EDUCATION AND TRAINING

- September 2003-June 2005 **Candidate in Pharmaceutical Sciences (Bachelor)**
Université Libre de Bruxelles (ULB) Faculty of Pharmacy (Belgium)
Pharmacy
- September 2005-June 2008 **Grade of Pharmacist (Master)**
Université Libre de Bruxelles (ULB) Faculty of Pharmacy (Belgium)
Pharmacy
- September 2008-September 2012 **PhD in Biomedical and Pharmaceutical Sciences**
Université Libre de Bruxelles (ULB) Faculty of Pharmacy (Belgium)
Proteomics and MS based analytical development

ADDITIONAL INFORMATION

- Expertise** Proteomics, glycomics, therapeutic proteins, chemical drugs, analytical chemistry, mass spectrometry, pharmaceuticals, pharmacology, medicinal chemistry, cardiovascular diseases. cholesterol, lipoproteins
- Publications** 2019

1. Cortese, M., Delporte, C., Dufour, D., Noyon, C., Chaumont, M., De Becker, B., Reye, F., Rousseau, A., Omer, E., Nève, J., Piagnerelli, M., Boudjeltia, K.Z., Robaye, B., Van Antwerpen, P. (2019) Validation of a LC/MSMS method for simultaneous quantification of 9 nucleotides in biological matrices. *Talanta*, 193, pp. 206-214
2018
2. Chaumont, M., De Becker, B., Zaher, W., Culié, A., Deprez, G., Mélot, C., Reyé, F., Van Antwerpen, P., Delporte, C., Debbas, N., Boudjeltia, K.Z., Van De Borne, P. (2018) Differential Effects of E-Cigarette on Microvascular Endothelial Function, Arterial Stiffness and Oxidative Stress: A Randomized Crossover Trial. *Scientific Reports*, 8 (1), art. no. 10378.
3. Rodríguez-Gómez, R., Vanheuverzwijn, J., Souard, F., Delporte, C., Stevigny, C., Stoffelen, P., De Braekeleer, K., Kauffmann, J.-M. (2018) Determination of three main chlorogenic acids in water extracts of coffee leaves by liquid chromatography coupled to an electrochemical detector. *Antioxidants*, 7 (10), art. no. 143.
4. Roumeguère, T., Van Antwerpen, P., Vanhamme, L., Delporte, C., Rousseau, A., Wespes, E., Vanhaeverbeek, M., Boudjeltia, K.Z. (2018) Myeloperoxidase and Prostate volume: A preliminary study [Myeloperoxidase et Volume Prostatique: étude préliminaire] *Progres en Urologie*, 28 (10), pp. 482-487.
5. Khalil, A., Medfai, H., Poelvoorde, P., Kazan, M.F., Delporte, C., Van Antwerpen, P., EL-Makhour, Y., Biston, P., Delrée, P., Badran, B., Vanhamme, L., Boudjeltia, K.Z. (2018) Myeloperoxidase promotes tube formation, triggers ERK1/2 and Akt pathways and is expressed endogenously in endothelial cells. *Archives of Biochemistry and Biophysics*, 654, pp. 55-69.
6. Dufour D, Khalil A, Nuyens V, Rousseau A, Delporte C, Noyon C, Cortese M, Reyé F, Pireaux V, Nève J, Vanhamme L, Robaye B, Lelubre C, Desmet JM, Raes M, Boudjeltia Zouaoui K, Van Antwerpen P (2018) Native and myeloperoxidase-oxidized low-density lipoproteins act in synergy to induce release of resolvin-D1 from endothelial cells. *Atherosclerosis*, 272, pp. 108-117.
7. Vanhamme L, Zouaoui Boudjeltia K, Van Antwerpen P, and Delporte C (2018) The other myeloperoxidase: Emerging functions, *Archives of Biochemistry and Biophysics*, 649:1-14
8. Chaumont, M, Bernard, A, Pochet, S, Melot, C, El Khattabi, C, Reye, F, Zouaoui Boudjeltia, K, Van Antwerpen, P, Delporte, C, van de Borne, P (2018) High Wattage E-cigarettes Induce Tissue Hypoxia and Lower Airway Injury: A Randomized Trial, *Am J Respir Crit Med*, In press, doi: 10.1164/rccm.201711-2198LE (IF: 13.204)
9. Dufour D, Khalil A, Nuyens V, Rousseau A, Delporte C, Noyon C, Cortese M, Reyé F, Pireaux V, Nève J, Vanhamme L, Robaye B, Lelubre C, Desmet JM, Raes M, Boudjeltia Zouaoui K, Van Antwerpen P (2018), Data on myeloperoxidase-oxidized low-density lipoproteins stimulation of cells to induce release of resolvin-D1. *Data in brief*, 18:1160-71
10. Delporte, C, Zouaoui, K, Furtmüller, P, Dieu, M, Reynolds, W, Maki, R, Noyon, C, Soudi, M, Dufour, D, Nuyens, V, Reye, F, Rousseau, A, Raes, M, Moguilevsky, N, Vanhaeverbeek, M, Ducobu, J, Nève, J, Robbaya, B, Vanhamme, L, Obinger, C, Van Antwerpen, P (2018) Myeloperoxidase-catalyzed oxidation of cyanide to cyanate: A potential carbamylation route involved in the formation of atherosclerotic plaques? *J. Biol. Chem*, 293(17):6374-86
11. Vandeput, M., Rodríguez-Gómez, R., Izere, A-M, Zafra-Gómez, A, Delporte, C, Van Antwerpen, P, and Kauffmann, J-M (2018) Electrochemical studies of ethoxyquine and assay in salmon samples by flow injection analysis with an amperometric dual detector, *Electroanalysis*, 30 (7), pp. 1293-1302.
12. Souard, F, Delporte, C (co-first author), Stoffelen, P, Thévenot, E A, Noret, N, Dauvergne, B, Kauffmann, J-M, Van Antwerpen, P, Stévigny, C (2018) Metabolomics fingerprint of coffee species determined by untargeted-profiling study using LC-HRMS, *Food Chem*, 245: 603-612 (IF: 4.529)
13. Mees C, Souard, F, Delporte, C, Deconinck, E, Stoffelen, P, Stévigny, C, Kauffmann, J-M, De Braekeleer, K (2018) Identification of coffee leaves using FT-NIR spectroscopy and SIMCA, *Talanta*, 177: 4-11 (IF: 4.162)
2017
14. Lahmass, I, Lamkani, T, Delporte, C, Sikdar, S, Van Antwerpen, P, Saalaoui, E, Megalizzi, V. (2017) The waste of saffron crop, a cheap source of bioactive compounds, *J. Func. Foods*, 35(2017)

:341-351 (IF: 3.144).

15. Noyon, C, Roumegère, T, Delporte, C, Dufour, D, Cortese, M, Rousseau, A, Poelvoorde, P, Nève, J, Vanhamme, L, Zouaoui-Boudjeltia, K, Van Antwerpen, P (2017), The presence of modified nucleosides in extracellular fluids leads to the specific incorporation of 5-chlorocytidine into RNA and modulates the transcription and translation, *Mol. and Cel. Biochem.* 429(1-2):59-71 (IF: 2.613).
16. Planinc, A, Dejaegher, B, Van Praet, S, Rappez, F, Van Antwerpen, P, Delporte, C. (2017) LC-MS analysis combined with Principal Component Analysis and Soft Independent Modelling by Class Analogy for a better detection of changes in N-glycosylation profiles of therapeutic glycoproteins. *Anal Bioanal Chem*, 409(2):477-485 (IF: 3.125).
17. Planinc, A, Dejaegher, B, Van Praet, S, Rappez, F, Van Antwerpen, P, Delporte, C. (2016) Batch-to-batch N-glycosylation Study of Infliximab, Trastuzumab, and Bevacizumab, and Stability Study of Bevacizumab. *Eur J Hosp Pharm*, 24 (5), pp. 286-292.
2016
18. Aldib, Iyas; Gelbcke, Michel; Soubhye, Jalal; Prévost, Martine; Furtmüller, Paul; Obinger, Christian; Elfving, Betina; Chikh Alard, Ibaa; Roos, Goedele; Delporte, Cédric; Berger, Gilles; Dufour, Damien; Zouaoui Boudjeltia, Karim; Neve, Jean; Dufrasne, Francois; Van Antwerpen, Pierre (2016) Novel Bis-Arylalkylamines as Myeloperoxidase Inhibitors: Design, Synthesis, and Structure-activity Relationship Study. *Europ J Med Chem*, 123, 746-62 (IF: 3.902).
19. Labranche, N, Youl, E, El Khattabi, C, Dewachter, L, Wauthoz, N, Delporte, C, Berkenboom, G, Pochet, S (2016) Rosuvastatin protects against vascular oxidative stress induced by diesel exhaust particles. *Acta Cardiologica*, 71: 565-572.
20. Soubhye, J, Aldib, I, Delporte, C, Prévost, M, Dufrasne, F, Van Antwerpen, P, (2016) Myeloperoxidase as a Target for Treatment of Inflammatory Syndromes: Mechanisms and Structure Activity Relationships of Inhibitors. *Curr Med Chem*, 23 (IF: 3.455).
21. Millán, L, Sampedro, M. C., Sánchez, A, Delporte, C, Van Antwerpen, P, Goicolea, M. A., Barrio, R. J. (2016) LC-QTOF-based metabolomic study for varietal discrimination of grapes according to plant sterols content. *J Chrom A*, 1454, 67-77 (IF: 3.928, Q1).
22. Noyon, C, Delporte, C, Dufour, D, Cortese, M, Rousseau, A, Poelvoorde, P, Nève, J, Vanhamme, L, Zouaoui-Boudjeltia, K, Roumegère, T, Van Antwerpen, P (2016), Validation of a sensitive LC/MSMS method for chloronucleoside analysis in biological matrixes and its applications. *Talanta*, 154, 322-328 (IF: 4.035, Q1).
23. Planinc, A, Bones, J, Dejaegher, B, Van Antwerpen, P, Delporte, C (2016) Glycan characterization of biopharmaceuticals: Updates and perspectives. *Anal Chim Acta*, 921, 13-27 (IF: 4.712, Q1).
24. Bromberg, L, Roufousse, F, Pradier, O, Delporte, C, Van Antwerpen, P, De Maertelaer, V, Cogan, E (2016) Methylprednisolone-induced lymphocytosis in patients with immune-mediated inflammatory disorders. *Am J Med*, In press (doi:10.1016/j.amjmed.2016.02.013) (IF: 5.610).
25. Ngezahayo, J, Pottier, L, Ribeiro, S. O., Delporte, C, Fontaine, V, Hari, L, Stévigny, C, Duez, P. (2016) *Plastotoma rotundifolium* aerial tissue extract has antibacterial activities. *Ind Crops Prod*, 86, 301-310 (IF: 3.449).
26. Dawaliby, R, Trubbia, C, Delporte, C, Noyon, C, Ruyschaert, J-M, Van Antwerpen, P, and Govaerts, C (2016) Phosphatidylethanolamine is a Key Regulator of Membrane Fluidity in Eukaryotic Cells. *J. Biol. Chem*, 291 (7), 3658-3667 (IF: 4.573, Q1).
27. Dawaliby, R, Trubbia, C, Delporte, C, Masureel, M, Van Antwerpen, P, Kobilka, B, Govaerts, C (2016). Allosteric regulation of G protein-coupled receptor activity by phospholipids. *Nat Chem Biol*: 12(1), 35-39 (IF: 12.996; Q1)
2015
28. Franck, T, Minguet, G, Delporte, C, Derochetteb, S, Zouaoui Boudjeltia, K, Van Antwerpen, P, Gach, O, Deby-Dupont, G, Mouithys-Mickalad, A, Serteyn, D (2015) An immunological method to combine the measurement of active and total myeloperoxidase in biological fluids and to find inhibitors which interact directly with the enzyme. *Free Radic Res* 49(6), 790-9. (IF: 2.976; Q2)
29. Soudi M, Paumann-Page M, Delporte C, Pirker K F, Bellei M, Edenhofer E, Stadlmayr G, Battistuzzi G, Zouaoui Boudjeltia K, Furtmüller P G, Van Antwerpen P, Obinger C (2015)

Multidomain human peroxidase 1 is a highly glycosylated and stable homotrimeric high-spin ferric peroxidase. *J. Biol. Chem.* 290(7), 10876-90 (IF: 4.573; Q1)

30. Delporte, C, Noyon, C, Raynal, P, Dufour ; D, Nève, J, Abts, F, Haex, M, Zouaoui Boudjeltia, K, and Van Antwerpen, P (2015) Advancement in stationary phase for peptide separation helps in protein identification: application to atheroma plaque proteomics using nano-chip LC-MS/MS. *J. Chrom. A*, 1386, 116-23 (IF: 4.169; Q1)

31. Millán Martín, S, Delporte, C, Farrell, E, Navas Iglesias, N, McLoughlin, N, and Bones, J (2015) Comparative Analysis of Monoclonal Antibody N-Glycosylation using Stable Isotope Tagging and UPLC-Fluorescence-MS. *Analyst*, 140(5), 1442-7 (IF: 4.107; Q1)

2014

32. Delporte, C, Zouaoui Boudjeltia, K, Noyon, C, Furtmüller, P, Nuyens, V, Slomianny, M-C, Madhoun, P, Desmet, J-M, Raynal, P, Dufour, D, Koyani, C. N., Reyé, F, Rousseau, A, Vanhaeverbeek, M, Ducobu, J, Michalski, J-C, Nève, J, Vanhamme, L, Obinger, C, Malle, E, and Van Antwerpen, P. (2014) Impact of myeloperoxidase-LDL interactions on enzyme activity and subsequent posttranslational oxidative modifications of apoB-100. *J Lipid Res*, 55(4), 747-57 (IF: 4.421; Q1)

33. Soubhye, J, Aldib, I, Prévost, M, Elfving, B, Gelbcke, M, Podrecca, M, Conotte, R, Colet, J-M, Furtmüller, P, Delporte, C, Rousseau, A, Vanhaeverbeek, M, Nève, J, Obinger, C, Zouaoui-Boudjeltia, K, Van Antwerpen, P, Dufrasne, F, (2014) Hybrid Molecules Inhibiting Myeloperoxidase Activity and Serotonin Reuptake: A Possible New Approach of Major Depressive Disorders with Inflammatory Syndrome. *J Pharm Pharmacol.*, 66(8), 1122-32 (IF: 2.264; Q3)

34. Nzeusseu Toukap, A, Delporte, C (co-first author), Noyon, C, Frank, T, Rousseau, A, Serteyn, D, Raes, M, Vanhaeverbeek, M, Moguilevsky, N, Nève, J, Vanhamme, L, Durez, P, Van Antwerpen, P, Zouaoui Boudjeltia, K (2014) Myeloperoxidase and its activity products in rheumatoid arthritis and osteoarthritis patients: Synovial fluid analysis. *Free Radic Res*, 48(4), 376-85. (IF: 2.976; Q2)

2013

35. Zouaoui Boudjeltia K, Delporte C (co-first author), Van Antwerpen P, Franck T, Serteyn D, Moguilevsky N, Raes M, Vanhamme L, Vanhaeverbeek M, Van Meerhaeghe A, Roumeguère T (2013) Myeloperoxidase-Dependent LDL Modifications in Bloodstream Are Mainly Predicted by Angiotensin II, Adiponectin, and Myeloperoxidase Activity: A Cross-Sectional Study in Men. *Mediators of Inflammations*. 2013, Article ID 750742. (IF: 3.236; Q2)

36. Bury, M, Novo-Uzal, E, Andolfi, A, Cimini, S, Wauthoz, N, Heffeter, P, Lallemand, B, Avolio, F, Delporte, C, Cimmino, A, Dubois, J, Van Antwerpen, P, Chiara Zonno, M, Vurro, M, Poumay, Y, Berger, W, Evidente, A, De Gara, L, Kiss, R, Locato V (2013) Ophiobolin A, a Sesterterpenoid Fungal Phytotoxin, Displays Higher In Vitro Growth-Inhibitory Effects in Mammalian than in Plant Cells and It also Displays In Vivo Antitumor Activity. *Int J Oncol.* 43(2), 575-85. (IF: 3.025; Q2)

37. Delporte C, Van Antwerpen P, Vanhamme L, Roumeguère T, Zouaoui Boudjeltia K., (2013) Low-density lipoprotein modified by myeloperoxidase in inflammatory pathways and clinical studies. *Mediators of Inflammations*. 2013, Article ID 971579 (IF: 3.236; Q2)

2012

38. Delporte, C, Franck, T, Noyon, C, Dufour, D, Rousseau, A, Madhoun, P, Desmet, J-M, Serteyn, D, Raes, M, Nortier, J, Vanhaeverbeek, M, Moguilevsky, N, Neve, J, Vanhamme, L, Van Antwerpen, P, & Zouaoui Boudjeltia, K (2012). Simultaneous measurement of protein-bound 3-chlorotyrosine and homocitrulline by LC-MS/MS after hydrolysis assisted by microwave: Application to the study of myeloperoxidase activity during hemodialysis. *Talanta*, 99, 603-609. (IF: 3.545; Q1)

2011

39. Lallemand, B, Chaix, F, Bury, M., Bruyère, C., Ghostin, J., Becker, J-P, Delporte, C, Gelbcke, M, Mathieu, V, Dubois, J, Prévost, M, Jabin, I, & Kiss, R (2011).

N-(2-{3-[3,5-Bis(trifluoromethyl)phenyl]ureido}ethyl)-glycyrhhe-tinamide (6b): A Novel Anticancer Glycyrhretinic Acid Derivative that Targets the Proteasome and Displays Anti-Kinase Activity. *J Med Chem*, 54, 6501-6513. (IF: 5.447; Q1)

40. Delporte, C, Van Antwerpen, P, Zouaoui Boudjeltia, K, Noyon, C, Abts, F, Métral, F, Vanhamme, L, Reye, F, Rousseau, A, Vanhaeverbeek, M, Ducobu, J, & Neve, J (2011). Optimization of

apolipoprotein-B-100 sequence coverage by liquid chromatography-tandem mass spectrometry for the future study of its posttranslational modifications. *Anal biochem*, 411(1), 129-138. (IF: 2.219; Q2) 2010

41. Calay, D, Rousseau, A, Mattart, L, Nuyens, V, Delporte, C, Van Antwerpen, P, Moguilevsky, N, Arnould, T, Zouaoui Boudjeltia, K, & Raes, M (2010). Copper and myeloperoxidase-modified LDLs activate Nrf2 through different pathways of ROS production in macrophages. *Antioxidants & redox signalling*, 13(10), 1491-1502. (IF: 7.407; Q1)

42. Van Antwerpen, P, Slomianny, M-C, Zouaoui Boudjeltia, K, Delporte, C, Faid, V, Calay, D, Rousseau, A, Moguilevsky, N, Raes, M, Vanhamme, L, Furtmüller, P G, Obinger, C, Vanhaeverbeek, M, Neve, J, & Michalski, J-C (2010). Glycosylation pattern of mature dimeric leukocyte and recombinant monomeric myeloperoxidase: glycosylation is required for optimal enzymatic activity. *J Biol Chem*, 285(21), 16351-16359.

Projects

Memberships

Member, Belgian Society of Pharmaceutical Sciences (2009-Present)

Member, Belgian Society of Biochemistry and Molecular Biology (2009-Present)

Member, European Atherosclerosis Society (2010- Present)

Member, Belgian Lipid Club (2011- Present)

Member, Society for Free Radical Research-Europe (2012-Present)

Other Relevant Information