

PERSONAL INFORMATION **Flora Musuamba Tshinanu**

WORK EXPERIENCE

September 2001–September 2006 **Teaching and research assistant**
Université de Kinshasa (Democratic Republic of the Congo)
- Teaching
- Research

September 2006–September 2011 **Teaching and research assistant**
Université Catholique de Louvain (Belgium)
- Teaching
- Research

January 2010–January 2013 **Post Doctoral researcher**
Leiden University (Netherlands)
- Teaching
- Research

January 2013–September 2014 **Post Doctoral fellow**
Université Catholique de Louvain (Belgium)
Teaching
Research

September 2013–September 2016 **Research associate**
University College London (United Kingdom)
Teaching
Research

May 2015–Present **Assessor**
Federal Agency for Medicines and Health Products (Belgium)
- Assessment of scientific advices, marketing authorisation applications-, and post-marketing authorisation (PSURS, renewals, referral, etc) application- related documents

September 2016–September 2018 **Associate Professor**
Université de Limoges (France)

September 2012–Present **Associate Professor**
Université de Lubumbashi (Democratic Republic of the Congo)
Teaching
Research

September 2013–Present **Lecturer**
Université Libre de Bruxelles (Belgium)
Teaching

EDUCATION AND TRAINING

- January 1994–January 2000 **Pharmacist**
 Université de Kinshasa (Democratic Republic of the Congo)
- September 2004–September 2006 **Master in Pharmaceutical medicine**
 Université Libre de Bruxelles (PHARMED) (Belgium)
- September 2006–December 2009 **PhD in Pharmaceutical sciences**
 Université Catholique de Louvain (Belgium)

ADDITIONAL INFORMATION

Expertise Pharmacokinetics
 Modelling and simulations
 Clinical pharmacology

Publications List of publications in major international peer-reviewed journals

Li Z, Mirams GR, Yoshinaga T, Ridder BJ, Han X, Chen JE, Stockbridge NL, Wisialowski TA, Damiano B, Severi S, Morissette P, Kowey PR, Holbrook M, Smith G, Rasmusson RL, Liu M, Song Z, Qu Z, Leishman DJ, Steidl-Nichols J, Rodriguez B, Bueno-Orovio A, Zhou X, Passini E, Edwards AG, Morotti S, Ni H, Grandi E, Clancy CE, Vandenberg J, Hill A, Nakamura M, Singer T, Polonchuk L, Greiter-Wilke A, Wang K, Nave S, Fullerton A, Sobie EA, Paci M, Musuamba Tshinanu F, Strauss DG.

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Nanga TM, Doan TTP, Marquet P, Musuamba FT. Toward a robust tool for pharmacokinetic-based personalization of treatment with tacrolimus in solid organ transplantation: A model-based meta-analysis approach. *Br J Clin Pharmacol.* 2019 Dec;85(12):2793-2823. doi: 10.1111/bcp.14110. Epub 2019 Dec 17. PubMed PMID: 31471970.

Thémans P, Marquet P, Winkin JJ, Musuamba FT. Towards a Generic Tool for Prediction of Meropenem Systemic and Infection-Site Exposure: A Physiologically Based Pharmacokinetic Model for Adult Patients with Pneumonia. *Drugs R D.* 2019 Jun;19(2):177-189. doi: 10.1007/s40268-019-0268-x. PubMed PMID: 31090024; PubMed Central PMCID: PMC6544603.

Pappalardo F, Russo G, Musuamba FT, Viceconti M. In silico clinical trials: concepts and early adoptions. *Brief Bioinform.* 2019 Sep 27;20(5):1699-1708. doi: 10.1093/bib/bby043. PubMed PMID: 29868882.

Musuamba FT, Manolis E, Holford N, Cheung S, Friberg LE, Ogungbenro K, Posch M, Yates J, Berry S, Thomas N, Corriol-Rohou S, Bornkamp B, Bretz F, Hooker AC, Van der Graaf PH, Standing JF, Hay J, Cole S, Gigante V, Karlsson K, Dumortier T, Benda N, Serone F, Das S, Brochot A, Ehmann F, Hemmings R, Rusten IS. Advanced Methods for Dose and Regimen Finding During Drug Development: Summary of the EMA/EFPIA Workshop on Dose Finding (London 4-5 December 2014). *CPT Pharmacometrics Syst Pharmacol.* 2017 Jul;6(7):418-429. doi: 10.1002/psp4.12196. Epub 2017 Jul 19. PubMed PMID: 28722322; PubMed Central PMCID: PMC5529745.

Manolis E, Brogren J, Cole S, Hay JL, Nordmark A, Karlsson KE, Lentz F, Benda N, Wangorsch G, Pons G, Zhao W, Gigante V, Serone F, Standing JF, Dokoumetzidis A, Vakkilainen J, van den Heuvel M, Mangas Sanjuan V, Taminiau J, Kerwash E, Khan D, Musuamba FT, Skottheim Rusten I; EMA

- Modelling and Simulation Working Group. Commentary on the MID3 Good Practices Paper. *CPT Pharmacometrics Syst Pharmacol*. 2017 Jul;6(7):416-417. doi: 10.1002/psp4.12223. Epub 2017 Jul 22. PubMed PMID:28653481; PubMed Central PMCID: PMC5529732.
- Musuamba FT, Teutonico D, Maas HJ, Facius A, Yang S, Danhof M, Della Pasqua OE. A joint model for disease progression, drug effect and dropout in chronic obstructive pulmonary disease (COPD). *Pharm Res*. 2014 Sep 18. [Epub ahead of print] PMID: 25231008
- Frippiat F *, Musuamba FT*, Seidel L, Adelin A, Denooz R, Charlier C, Van Bambeke F, Wallemacq P, Descy J, Lambemont B, Layios N, Damas P and Moutsche M. Modelled target attainment after meropenem infusion in patients with severe nosocomial pneumonia: the PROMESSE study. *J Antimicrob Chemother*. 2014 Sep 12. pii: dku354*. These two authors have contributed equally to the work.
- Buemi A, Musuamba F, Frederic S, Douhet A, De Meyer M, De Pauw L, Darius T, Kanaan N, Wallemacq P, Mourad M. Is plasma and urine neutrophil gelatinase-associated lipocalin (NGAL) determination in donors and recipients predictive of renal function after kidney transplantation? *Clin Biochem*. 2014 Jul 8
- Guy-Vitterbo V, Scohy A, Reding R, Wallemacq P and Musuamba FT .
- Influence of age, CYP3A4/5 genetic polymorphism and use of fluconazole on tacrolimus disposition: Population pharmacokinetic approach. *Pharmacogenomics*. 2014 Jun;15(9):1207-21 Wunnapuk K, Mohammed F, Gawarammana I, Verbeeck RK, Buckley N, Roberts M, Musuamba FT. Population toxicokinetics and toxicodynamics of paraquat. *Br J Clin Pharmacol*. 2014 Apr 2.
- Musuamba FT, Guy-Vitterbo V, Scohy A, Reding R, Leruth Y, Capron A, Verbeeck R and Wallemacq P. Population pharmacokinetic analysis of tacrolimus in paediatrics and adults in the early period after liver transplantation. *Ther Drug Monit*. 2014 Feb;36(1):54-61.
- Guy-Vitterbo V, Scohy A, Reding R, Wallemacq P and Musuamba FT . Population pharmacokinetic analysis of tacrolimus the first year after paediatric liver transplantation. *Eur J Clin Pharmacol*. 2013 Aug;69(8):1533-42.
- Mardjuadi F, Medioni J, Kerger J, D'Hondt L, Canon JL, Duck L, Musuamba F, Oudard S, Clause M, Moxhon A, Machiels JP. Phase I study of sorafenib in combination with docetaxel and prednisone in chemo-naïve patients with metastatic castration-resistant prostate cancer. *Cancer Chemother Pharmacol*. 2012 Aug;70(2):293-303.
- Musuamba FT, Mourad M, Haufroid V, De Meyer M, Capron A, Delattre IK, Verbeeck RK, Wallemacq P. Statistical tools for dose individualization of mycophenolic acid and tacrolimus co-administered during the first month after renal transplantation. *Br J Clin Pharmacol*. 2013 May;75(5):1277-88.
- Musuamba FT, Mourad M, Haufroid V, Demeyer M, Capron A, Delattre IK, Delaruelle F, Wallemacq P, Verbeeck RK. A simultaneous d-optimal designed study for population pharmacokinetic analyses of mycophenolic Acid and tacrolimus early after renal transplantation. *J Clin Pharmacol*. 2012 Dec;52(12):1833-43.
- Verbeeck RK, Musuamba FT. The revised EMA guideline for the investigation of bioequivalence for immediate release oral formulations with systemic action. *J Pharm Pharm*
- Mesia K, Tona L, Mampunza MM, Ntamabyaliro N, Muanda T, Muyembe T, Musuamba T, Mets T, Cimanga K, Totté J, Pieters L, Vlietinck AJ. Antimalarial efficacy of a quantified extract of *Nauclea pobequinii* stem bark in human adult volunteers with diagnosed uncomplicated falciparum malaria. Part 2: a clinical phase IIB trial. *Planta Med*. 2012 Jun;78(9):853-60.
- Delattre IK, Musuamba FT, Jacqmin P, Taccone FS, Laterre PF, Verbeeck RK, Jacobs F, Wallemacq P. Population pharmacokinetics of four β -lactams in critically ill septic patients comedicated with amikacin. *Clin Biochem*. 2012 Jul;45(10-11):780-6.
- Musuamba CT, Cimanga RK, Dooghe L, Mesia GK, Luyindula N, Totté J, Pieters L, Tona GL, Vlietinck AJ. In vitro antiplasmodial and cytotoxic activities of ethanol extracts of apical stem of *Phyllanthus amarus* Shum et Thonn (Ephorbiaceae). *Journal of complementary and integrative medicine* 2010 December; 7(1) ISSN (Online) 1553-3840.
- Delattre IK, Musuamba FT, Taccone FS, Laterre PF, Verbeeck RK, Jacobs F, Wallemacq PE. Population pharmacokinetic modeling and optimal sampling strategy for Bayesian estimation of amikacin exposure in critically ill septic patients. *Ther Drug Monit*. 2010 Dec;32(6):749-56.
- Musuamba FT, Mourad M, Haufroid V, Bosmans JL, Sennesael JJ, Verbeeck RK, Wallemacq P. Predictive performances of different therapeutic drug monitoring approaches to assess tacrolimus and mycophenolic acid exposure. *Acta Clinica Belgica*. 2010 Mar; 65:31-37.
- Kabamba-Mukadi B, Duquenne A, Henrivaux P, Musuamba F, Ruelle J, Yombi JC, Bodus M, Vandercam B, Goubau P. HIV-1 proviral resistance mutations: usefulness in clinical practice. *HIV Med*.

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Delattre IK, Musuamba FT, Verbeeck RK, Dugernier T, Spapen H, Laterre PF, Wittebole X, Cumps J, Taccone FS, Vincent JL, Jacobs F, Wallemacq PE. Empirical models for dosage optimization of four beta-lactams in critically ill septic patients based on therapeutic drug monitoring of amikacin. *Clin Biochem.* 2010 Apr;43(6):589-98.

Musuamba FT, Mourad M, Haufroid V, Delattre IK, Verbeeck RK, Wallemacq P. Time of drug administration, CYP3A5 and ABCB1 genotypes, and analytical method influence tacrolimus pharmacokinetics: a population pharmacokinetic study. *Ther Drug Monit.* 2009 Dec;31(6):734-42.

Musuamba FT, Rousseau A, Bosmans JL, Senessael JJ, Cumps J, Marquet P, Wallemacq P, Verbeeck RK. Limited sampling models and Bayesian estimation for mycophenolic acid area under the curve prediction in stable renal transplant patients co-medicated with ciclosporin or sirolimus. *Clin Pharmacokinet.* 2009;48(11):745-58.

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Cimanga RK, Tona L, Luyindula N, Mesia K, Lusakibanza M, Musuamba CT, Apers S, De Bruyne T, Van Miert S, Hermans N, Totté J, Pieters L, Vlietinck AJ. In vitro antiplasmodial activity of callus culture extracts and fractions from fresh apical stems of *Phyllanthus niruri* L. (Euphorbiaceae): part 2. *J Ethnopharmacol.* 2004 Dec;95(2-3):399-404.

Tona L, Cimanga RK, Mesia K, Musuamba CT, De Bruyne T, Apers S, Hermans N, Van Miert S, Pieters L, Totté J, Vlietinck AJ. In vitro antiplasmodial activity of extracts and fractions from seven medicinal plants

Projects EU-STANDS4PM

Memberships

Other Relevant Information