# Cline Brochot

## List of Publications by Citations



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|---|---|---|---|
| 60 papers | 1,675 citations | 22 h-index | 40 g-index |
| 66 ext. papers | 1,947 ext. citations | 5.3 avg, IF | 4.37 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 60 | The human early-life exposome (HELIX): project rationale and design. *Environmental Health Perspectives*, **2014**, 122, 535-44 | 8.4 | 219 |
| 59 | Human Early Life Exposome (HELIX) study: a European population-based exposome cohort. *BMJ Open*, **2018**, 8, e021311 | 3 | 88 |
| 58 | Metabolomics-on-a-chip and predictive systems toxicology in microfluidic bioartificial organs. *Analytical Chemistry*, **2012**, 84, 1840-8 | 7.8 | 82 |
| 57 | Investigation of ifosfamide nephrotoxicity induced in a liver-kidney co-culture biochip. *Biotechnology and Bioengineering*, **2013**, 110, 597-608 | 4.9 | 80 |
| 56 | Improvement of HepG2/C3a cell functions in a microfluidic biochip. *Biotechnology and Bioengineering*, **2011**, 108, 1704-15 | 4.9 | 80 |
| 55 | Toxicokinetic models and related tools in environmental risk assessment of chemicals. *Science of the Total Environment*, **2017**, 578, 1-15 | 10.2 | 72 |
| 54 | Metabolomics-on-a-chip of hepatotoxicity induced by anticancer drug flutamide and Its active metabolite hydroxyflutamide using HepG2/C3a microfluidic biochips. *Toxicological Sciences*, **2013**, 132, 8-20 | 4.4 | 67 |
| 53 | Development of a physiologically based kinetic model for 99m-technetium-labelled carbon nanoparticles inhaled by humans. *Inhalation Toxicology*, **2009**, 21, 1099-107 | 2.7 | 63 |
| 52 | Variability of urinary concentrations of non-persistent chemicals in pregnant women and school-aged children. *Environment International*, **2018**, 121, 561-573 | 12.9 | 61 |
| 51 | Exposure assessment of phthalates in French pregnant women: results of the ELFE pilot study. *International Journal of Hygiene and Environmental Health*, **2013**, 216, 271-9 | 6.9 | 58 |
| 50 | A cocktail of metabolic probes demonstrates the relevance of primary human hepatocyte cultures in a microfluidic biochip for pharmaceutical drug screening. *International Journal of Pharmaceutics*, **2011**, 408, 67-75 | 6.5 | 52 |
| 49 | A physiologically based toxicokinetic model for the zebrafish Danio rerio. *Environmental Science & Technology*, **2014**, 48, 781-90 | 10.3 | 50 |
| 48 | A stochastic whole-body physiologically based pharmacokinetic model to assess the impact of inter-individual variability on tissue dosimetry over the human lifespan. *Regulatory Toxicology and Pharmacology*, **2010**, 57, 103-16 | 3.4 | 50 |
| 47 | Predictive toxicology using systemic biology and liver microfluidic "on chip" approaches: application to acetaminophen injury. *Toxicology and Applied Pharmacology*, **2012**, 259, 270-80 | 4.6 | 49 |
| 46 | Physiologically-based Kinetic Modelling (PBK Modelling): meeting the 3Rs agenda. The report and recommendations of ECVAM Workshop 63. *ATLA Alternatives To Laboratory Animals*, **2007**, 35, 661-71 | 2.1 | 46 |
| 45 | Evaluation of seven drug metabolisms and clearances by cryopreserved human primary hepatocytes cultivated in microfluidic biochips. *Xenobiotica*, **2013**, 43, 140-52 | 2 | 37 |
| 44 | Generic physiologically-based toxicokinetic modelling for fish: Integration of environmental factors and species variability. *Science of the Total Environment*, **2019**, 651, 516-531 | 10.2 | 36 |

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| 43 | Modelling the exposure to chemicals for risk assessment: a comprehensive library of multimedia and PBPK models for integration, prediction, uncertainty and sensitivity analysis - the MERLIN-Expo tool. *Science of the Total Environment*, **2016**, 568, 770-784 | 10.2 | 35 |
| 42 | Metabolomics-on-a-chip and metabolic flux analysis for label-free modeling of the internal metabolism of HepG2/C3A cells. *Molecular BioSystems*, **2012**, 8, 1908-20 | | 34 |
| 41 | Prediction of dose-hepatotoxic response in humans based on toxicokinetic/toxicodynamic modeling with or without in vivo data: a case study with acetaminophen. *Toxicology Letters*, **2013**, 220, 26-34 | 4.4 | 29 |
| 40 | Lumping in pharmacokinetics. *Journal of Pharmacokinetics and Pharmacodynamics*, **2005**, 32, 719-36 | 2.7 | 28 |
| 39 | Development of a physiologically based toxicokinetic model for butadiene and four major metabolites in humans: global sensitivity analysis for experimental design issues. *Chemico-Biological Interactions*, **2007**, 167, 168-83 | 5 | 27 |
| 38 | PBPK modeling of the cis- and trans-permethrin isomers and their major urinary metabolites in rats. *Toxicology and Applied Pharmacology*, **2016**, 294, 65-77 | 4.6 | 22 |
| 37 | Kinetic modelling of in vitro cell-based assays to characterize non-specific bindings and ADME processes in a static and a perfused fluidic system. *Toxicology Letters*, **2011**, 205, 310-9 | 4.4 | 22 |
| 36 | Interpreting PCB levels in breast milk using a physiologically based pharmacokinetic model to reconstruct the dynamic exposure of Italian women. *Journal of Exposure Science and Environmental Epidemiology*, **2012**, 22, 601-9 | 6.7 | 21 |
| 35 | The MCRA toolbox of models and data to support chemical mixture risk assessment. *Food and Chemical Toxicology*, **2020**, 138, 111185 | 4.7 | 19 |
| 34 | Determination of cis-permethrin, trans-permethrin and associated metabolites in rat blood and organs by gas chromatography-ion trap mass spectrometry. *Analytical and Bioanalytical Chemistry*, **2014**, 406, 3477-87 | 4.4 | 19 |
| 33 | Modelling ecological and human exposure to POPs in Venice lagoon - Part II: Quantitative uncertainty and sensitivity analysis in coupled exposure models. *Science of the Total Environment*, **2016**, 569-570, 1635-1649 | 10.2 | 17 |
| 32 | Placental transfer of xenobiotics in pregnancy physiologically-based pharmacokinetic models: Structure and data. *Computational Toxicology*, **2019**, 12, 100111 | 3.1 | 14 |
| 31 | Multimedia & PBPK modelling with MERLIN-Expo versus biomonitoring for assessing Pb exposure of pre-school children in a residential setting. *Science of the Total Environment*, **2016**, 568, 785-793 | 10.2 | 14 |
| 30 | In vitro human metabolism of permethrin isomers alone or as a mixture and the formation of the major metabolites in cryopreserved primary hepatocytes. *Toxicology in Vitro*, **2015**, 29, 803-12 | 3.6 | 13 |
| 29 | Integrative Strategy of Testing Systems for Identification of Endocrine Disruptors Inducing Metabolic Disorders-An Introduction to the OBERON Project. *International Journal of Molecular Sciences*, **2020**, 21, | 6.3 | 13 |
| 28 | Evaluation of antiangiogenic treatment effects on tumorsSmicrocirculation by Bayesian physiological pharmacokinetic modeling and magnetic resonance imaging. *Magnetic Resonance Imaging*, **2006**, 24, 1059-67 | 3.3 | 13 |
| 27 | Modelling ecological and human exposure to POPs in Venice lagoon. Part I - Application of MERLIN-Expo tool for integrated exposure assessment. *Science of the Total Environment*, **2016**, 565, 961-976 | 10.2 | 12 |
| 26 | Investigating the interaction between melamine and cyanuric acid using a Physiologically-Based Toxicokinetic model in rainbow trout. *Toxicology and Applied Pharmacology*, **2019**, 370, 184-195 | 4.6 | 11 |

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| 25 | Predicting in vivo gene expression in macrophages after exposure to benzo(a)pyrene based on in vitro assays and toxicokinetic/toxicodynamic models. *Toxicology Letters*, **2011**, 201, 8-14 | 4.4 | 11 |
| 24 | Prediction of maternal and foetal exposures to perfluoroalkyl compounds in a Spanish birth cohort using toxicokinetic modelling. *Toxicology and Applied Pharmacology*, **2019**, 379, 114640 | 4.6 | 10 |
| 23 | Aggregate and cumulative chronic risk assessment for pyrethroids in the French adult population. *Food and Chemical Toxicology*, **2020**, 143, 111519 | 4.7 | 10 |
| 22 | Potential for MERLIN-Expo, an advanced tool for higher tier exposure assessment, within the EU chemical legislative frameworks. *Science of the Total Environment*, **2016**, 562, 474-479 | 10.2 | 10 |
| 21 | Estimating the cumulative human exposures to pyrethroids by combined multi-route PBPK models: Application to the French population. *Toxicology Letters*, **2019**, 312, 125-138 | 4.4 | 8 |
| 20 | Assessing multimedia/multipathway exposures to inorganic arsenic at population and individual level using MERLIN-Expo. *Science of the Total Environment*, **2016**, 568, 794-802 | 10.2 | 8 |
| 19 | BK/TD models for analyzing in vitro impedance data on cytotoxicity. *Toxicology Letters*, **2015**, 235, 96-106 | 4.4 | 7 |
| 18 | Assessing the impacts on fetal dosimetry of the modelling of the placental transfers of xenobiotics in a pregnancy physiologically based pharmacokinetic model. *Toxicology and Applied Pharmacology*, **2020**, 409, 115318 | 4.6 | 7 |
| 17 | Linking fate model in freshwater and PBPK model to assess human internal dosimetry of B(a)P associated with drinking water. *Environmental Geochemistry and Health*, **2011**, 33, 371-87 | 4.7 | 7 |
| 16 | Physiology-based toxicokinetic modelling in the frame of the European Human Biomonitoring Initiative. *Environmental Research*, **2019**, 172, 216-230 | 7.9 | 6 |
| 15 | Use of a chemical probe to increase safety for human volunteers in toxicokinetic studies. *Risk Analysis*, **2005**, 25, 1559-71 | 3.9 | 6 |
| 14 | Determination of maternal and foetal distribution of cis- and trans-permethrin isomers and their metabolites in pregnant rats by liquid chromatography tandem mass spectrometry (LC-MS/MS). *Analytical and Bioanalytical Chemistry*, **2019**, 411, 8043-8052 | 4.4 | 6 |
| 13 | Modeling Pharmacokinetics. *Methods in Molecular Biology*, **2016**, 1425, 37-62 | 1.4 | 4 |
| 12 | Modelling the Fate of Chemicals in Humans Using a Lifetime Physiologically Based Pharmacokinetic (PBPK) Model in MERLIN-Expo. *Handbook of Environmental Chemistry*, **2018**, 215-257 | 0.8 | 4 |
| 11 | Spatio-temporal assessment of pregnant women exposure to chlorpyrifos at a regional scale. *Journal of Exposure Science and Environmental Epidemiology*, **2021**, | 6.7 | 4 |
| 10 | A generic PBTK model implemented in the MCRA platform: Predictive performance and uses in risk assessment of chemicals. *Food and Chemical Toxicology*, **2020**, 142, 111440 | 4.7 | 3 |
| 9 | Analysis of real-time mixture cytotoxicity data following repeated exposure using BK/TD models. *Toxicology and Applied Pharmacology*, **2016**, 305, 118-126 | 4.6 | 3 |
| 8 | Quantifying heterogeneity in exposure-risk relationships using exhaled breath biomarkers for 1,3-butadiene exposures. *Journal of Breath Research*, **2008**, 2, 037018 | 3.1 | 2 |

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| 7 | Extension of the isobolographic approach to interactions studies between more than two drugs: illustration with the convulsant interaction between pefloxacin, norfloxacin, and theophylline in rats. *Journal of Pharmaceutical Sciences*, **2004**, 93, 553-62 | 3.9 | 1 |
| 6 | Characterizing environmental geographic inequalities using an integrated exposure assessment. *Environmental Health*, **2021**, 20, 58 | 6 | 1 |
| 5 | Estimating human exposure to pyrethroidsSmixtures from biomonitoring data using physiologically based pharmacokinetic modeling. *Environmental Research*, **2021**, 192, 110281 | 7.9 | 1 |
| 4 | Evaluation of Placental Transfer and Tissue Distribution of - and -Permethrin in Pregnant Rats and Fetuses Using a Physiological-Based Pharmacokinetic Model. *Frontiers in Pediatrics*, **2021**, 9, 730383 | 3.4 | 1 |
| 3 | Mapping blood lead levels in French children due to environmental contamination using a modeling approach. *Science of the Total Environment*, **2021**, 152149 | 10.2 | 0 |
| 2 | Developing TK databases and tools to support food safety assessment. *Toxicology Letters*, **2018**, 295, S5-S6 | 4.4 | |
| 1 | PBPK Modeling to Simulate the Fate of Compounds in Living Organisms.. *Methods in Molecular Biology*, **2022**, 2425, 29-56 | 1.4 | |