



Curriculum Vitae

Personal information **Ann Detroyer**

Work experience

Since 09/2024 : Non-Clinical Evaluator

Federal Agency for Medicines and Health Products, Belgium

01/2020 till 09/2024 : Scientific Expert

L'Oréal Research and Innovation, Aulnay-sous-Bois, France

Main activities : Scientific expert in computational methods to ensure their use for animal-free safety assessment strategies of cosmetic ingredients and products. External representative of L'Oréal in the field (i.e. participation in external, multi partner, science expert working groups (i.e. with ICCS, Cosmetics Europe, AFSA), representation at international scientific conferences, co-authorship of scientific publications, ...).

02/2016 till 01/2020 : Laboratory leader

L'Oréal Research and Innovation, Aulnay-sous-Bois, France

Main activities : Laboratory lead in the field of computational toxicology and physical-chemistry methods and expert role in view of their use in animal-free safety assessment strategies for ingredients in Cosmetics.

07/2012 till 02/2016 : Senior Research Engineer

L'Oréal Research and Innovation, Aulnay-sous-Bois, France

Main activities : Senior scientific researcher in the field of computer-aided design and evaluation of ingredients in Cosmetics, in particular their toxicological and physical-chemical properties.

09/2004 till 07/2012 : Research Engineer

L'Oréal Research and Innovation, Aulnay-sous-Bois, France

Main activities : Scientific researcher in the field of computational chemistry on efficacy and safety design of ingredients for Cosmetics.

10/2003 till 08/2004 : ATER

Département de Chimie Analytique, Faculté de Pharmacie Université Paris Sud – XI, France

Main activities : Research into the development of chromatographic methods and their data analysis to construct Quantitative Structure Activity Relationships (QSAR). Providing education and guidance in the field of Analytical Chemistry and Chemometrics to pharmacy students.

10/1998 till 09/2003 : PhD student

Pharmaceutical and Biomedical Analysis Department, Medicine and Pharmacy Faculty, Vrije Universiteit Brussel, Belgium

Main activities : Research into micellar liquid chromatography for high-throughput membrane permeability assessment of drugs. Providing education and guidance in the field of Analytical Chemistry, Bromatology and Chemometrics to pharmacy students.

Education and training

10/1998 till 06/2004 : PhD in Pharmaceutical Sciences

Pharmaceutical and Biomedical Analysis Department, Medicine and Pharmacy Faculty, Vrije Universiteit Brussel, Belgium

PhD subject : Micellar liquid chromatography for high-throughput membrane permeability assessment of drugs

10/1993 till 06/1998 : Pharmacist degree

Vrije Universiteit Brussel, Belgium

Skills : Educated in all subjects and trained in all skills pertaining to the occupation of pharmacist.

Additional information

Publications

Articles (current down till 2016) :

Spatial distribution of active compounds in stratum corneum—partitioning between corneocytes and lipid matrix
Peter Sjöval, Sebastien Gregoire, William Wargniez, Lisa Skedung, Ann Detroyer, Gustavo S. Luengo
Sci Rep 14, 18681 (2024)

Advancing the use of new approach methodologies for assessing teratogenicity: Building a tiered approach
M. Burbank, F. Gautier, N. Hewitt, A. Detroyer, L. Guillet-Revoll, L. Carron, T. Wildemann, T. Bringel, A. Riu, A. Noel-Voisin, N. De Croze, M. Leonard, G. Ouedraogo
Reproductive Toxicology, Volume 120, September 2023, 108454

The role of a molecular informatics platform to support next generation risk assessment
Chihae Yang, James F Rathman, Bruno Bienfait, Matthew Burbank, Ann Detroyer, Steven J. Enoch, James W. Firman, Steve Gutsell, Nicola J. Hewitt, Bryan Hobocienski, Gerry Kenna, Judith C. Madden, Tomasz Magdziarz, Jörg Marusczyk, Aleksandra Mostrag-Szlichtyng, Christopher-Tilman Krueger, Cathy Lester, Catherine Mahoney, Abdulkarim Najjar, Gladys Ouedraogo, Mark T.D. Cronin
Computational Toxicology, Volume 26, May 2023, 100272

Read-across and new approach methodologies applied in a 10-step framework for cosmetics safety assessment – A case study with parabens
Gladys Ouedraogo, Camilla Alexander-White, Dagmar Bury, Harvey J. Clewell III, Mark Cronin, Tom Cull, Matthew Dent, Bertrand Desprez, Ann Detroyer, Corie Ellison, Stefania Giammanco, Eric Hack, Nicola J. Hewitt, Gerry Kenna, Martina Klaric, Reinhard Kreiling, Cathy Lester, Catherine Mahony, Enrico Mombelli, Jorge Naciff, John O'Brien, Andreas Schepky, Sarah Tozer, Bart vander Burg, Barbara van Vugt-Lussenburg, Sharon Stuard, Cosmetics Europe
Regulatory Toxicology and Pharmacology ; Volume 132, July 2022, 105161

New framework for a non-animal approach adequately assures the safety of cosmetic ingredients – A case study on caffeine
Dagmar Bury, Camilla Alexander-White, Harvey J. Clewell III, Mark Cronin, Bertrand Desprez, Ann Detroyer, Alina Efremenko, James Firman, Eric Hack, Nicola J. Hewitt, Gerry Kenna, Martina Klaric, Cathy Lester, Catherine Mahony, Gladys Ouedraogo, Alicia Pains, Andreas Schepky, Cosmetics Europe
Regulatory Toxicology and Pharmacology ; Volume 123, July 2021, 104931

Screening Ionic Solvents for Enhancing the Solubility of Water-Insoluble Natural Dyes
Luiz Fernando Lepre, Stephane Sabelle, Floriane Beaumard, Ann Detroyer, Marie-Céline Frantz, Agilio A. H. Padua, Margarida F. Costa Gomes
Industrial & Engineering Chemistry Research - Vol. 60, Issue 23, 16 Jun 2021 - pp 8555-8564

Skin Sensitisation Testing In Practice: Applying a Stacking Meta-model to Cosmetic Ingredients
Fleur Tourneix, Nathalie Alépée, Ann Detroyer, Joan Eilstein, Medhi Ez-Zoubir, Silvia Martinozzi Teissier, Hicham Noçairi, Cécile Piroird, David Basketter, Aurélia Del Bufalo
Toxicology in Vitro, Volume 66, August 2020, 104831

Assessment of a defined approach based on a stacking prediction model to identify skin sensitization hazard
Fleur Tourneix, Nathalie Alépée, Ann Detroyer, Joan Eilstein, Silvia Martinozzi Teissier, Laurent Nardelli, Hicham Noçairi, Thierry Pauloin, Cécile Piroird, Aurélia Del Bufalo
Toxicology in Vitro, Volume 60, October 2019, Pages 134-143

In silico mechanistically-based profiling module for acute oral toxicity
Daniela Nedelcheva, Stoyanka Stoeva, Sabcho Dimitrov, Ann Detroyer, Aziz Fadli, Reine Note, Delphine Blanchet, Ovanes Mekenyan
Computational Toxicology Volume 12, November 2019, 100109

Alternative Integrated Testing for Skin Sensitization: Assuring Consumer Safety
Aurelia Del Bufalo, Thierry Pauloin, Nathalie Alepee, Jacques Clouzeau, Ann Detroyer, Joan Eilstein, Charles Gomes, Hicham Noçairi, Cécile Piroird, Françoise Rousset, Fleur Tourneix, David Basketter, and Silvia Martinozzi Teissier
Applied In Vitro Toxicology. Mar 2018.30-43

Predicting in silico the Direct-Peptide-Reactivity-Assay (DPRA) within the Allergic Contact Dermatitis framework
Ann Detroyer, C. Piroird, J. Eilstein, S. Imbert, H. Ivanova, I. Popova, C. Kuseva, Y. Karakolev, S. Dimitrov, Ovanes Mekenyan
Toxicology Letters Volume 280, Supplement 1, 20 October 2017, Page S289

Accounting for data variability, a key factor in in vivo/in vitro relationships: application to the skin sensitization potency (in vivo LLNA versus in vitro DPRA) example
S. Dimitrov, A. Detroyer, C. Piroird, C. Gomes, J. Eilstein, T. Pauloin, C. Kuseva, H. Ivanova, I. Popova, Y. Karakolev, S. Ringeissen, O. Mekenyan
Journal of Applied Toxicology 36(12) April 2016

Projects

Memberships

Invited congress speaker (2024 down till 2016) :

Speaker - AFSA Master Class - In-Silico & Read Across

AFSA Masterclass & Episkin Academy Training workshop - ESTIV congress 2024
June 3-6, 2024 - Prague, Czech Republic

Speaker - Round-table discussion on the implementation and use of in silico tools for toxicity testing: academic, industrial and regulatory perspectives

EUROTOX In vitro and in silico toxicology Speciality Section (In2TOX SS)
ICT 2022 the 26th international congress of toxicology
September 18-21, 2022 – Maastricht, The Netherlands

Speaker - The rise of in silico methods in Cosmetic Safety Assessment : an industry perspective

GGMM SFCI congrès 2021
September 29- October 1, 2021 – Villeneuve d'Ascq, France

Speaker – In Silico Chemical Safety – Consumer Industry Perspective

Symposium on Navigating In Silico Chemical Safety - MN-AM
October 11, 2018 – Erlangen, Germany

Speaker – Cosmetics Safety Assessment : in silico contribution

Training course on Use of Weight of Evidence with non-testing methods for cosmetics ingredients -Mario Negri
22 and 23 May 2018 – Milan, Italy

Session lead QSAR 2016

17th International Conference on QSAR in Environmental and Health Sciences
13th - 17th June 2016 - Miami Beach, Florida, United States

Other Relevant Information