

# Curriculum Vitae

Last name, First name: Cabaton, Nicolas

Gender: M

Nationality/ies: French

## Overall Scientific Expertise:

[Based on your educational and professional backgrounds, please summarise (up to 100 words) your scientific expertise (disciplinary areas, competencies, etc.) especially your health and environmental risk assessment expertise and experience in risk assessment (*if applicable*).]

Nicolas Cabaton is a toxicologist in charge of studying the role of metabolic bioactivation in the mechanisms of toxic action of endocrine disrupting food and environmental contaminants (metabolism, metabolomic approaches) at INRAE Toxalim (Toulouse, France).

He is an expert toxicologist at ANSES (French Agency for Food, Environmental and Occupational Health & Safety) since 2015 and chairman of the working expert group MATAE (Assessment of materials and processing aids in the areas of food and water). He is a member in the ANSES working expert group "Endocrine disruptors" (PE). He is also an external expert at the Scientific Committee for Consumer Safety.

## Professional Experience

[Starting with your present occupation, list in reverse chronological order each activity in which you have been engaged. Please copy and paste more rows if needed.]

Years employed from – to	Title of position	Employer – name and location	Areas of professional specialisation <sup>▲</sup>
2011-	Research Scientist	INRAE TOXALIM (French National Research Institute for Agriculture, Food and the Environment), <i>Toulouse, France</i>	Toxicology, Endocrine disruptors, <i>in vitro</i> models, metabolism of xenobiotics
2010-2011	Post-doctoral Fellow	INRA Xenobiotics Unit (French National Institute for Agricultural Research), <i>Toulouse, France</i>	Endocrine disruptors, metabolism of xenobiotics, metabolomics approach
2007-2010	Research Associate	Tufts University School of Medicine, <i>Boston (MA) USA</i>	Endocrine disruptors, Repro-toxicology, mammary gland development

<sup>▲</sup>[*For example*: toxicology (alternative methods, carcinogenesis, endocrine, immunotoxicity, occupational, exposure assessment, genotoxicity, etc.), chemistry (atmospheric, medicinal, peptide, etc.), physics (biophysics, EMF radiation, noise, etc.), engineering (genetic, environmental, medical, etc.), biology (antimicrobial resistance, biophysics, biotechnology, etc.), medicine (allergies, neurology, etc.), epidemiology (clinical, genetic, cancer, etc.) environmental science (air quality, waste treatment, climate change, ecology, etc.), biostatistics, pharmacokinetics, medical technologies, nanoscience, etc...]

## Educational Background

[Starting with the most recent, please provide the details of your post-secondary education and/or professional training (e.g. university or its equivalent, postgraduate, postdoctoral). Please copy and paste more rows if needed.]

Year	Degree awarded	Educational Institution – name and location	Areas of educational specialisation*
2007	PhD	INRA-ENSBANA, Dijon, University of Burgundy	Toxicology and Nutrition, Endocrine disruption, Metabolism of xenobiotics

\*[For example: chemistry (analytical, organic, etc.), physics (thermodynamics, nuclear, etc.), engineering (mechanical, electrical, chemical, civil, etc.), biology (microbiology, molecular, etc.), medicine (dermatology, oncology, etc.), environmental science, pharmacology, toxicology, etc....]

## Memberships in Scientific Advisory Bodies/Committees/Panels (if any):

Expert toxicologist at ANSES (French Agency for Food, Environmental and Occupational Health & Safety) :

- Chairman of the working expert group MATAE (Assessment of materials and processing aids in the areas of food and water)
- Member of the working expert group PE (Endocrine disruptors)

External expert for the SCCS (Scientific Committee for Consumer Safety)

## Memberships in Learned Societies (if any):

- member of the board of directors of ARET (French association for research in toxicology) [www.aret.asso.fr](http://www.aret.asso.fr)
- Member of ISSX (International Society for the study of xenobiotics) <https://www.issx.org/>

## Memberships in Editorial Boards (if any):

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## List of Publications:

[Please indicate the type and total number of your publications. In addition, provide the bibliographic details for the 10 most representative, peer-reviewed articles which highlight the main areas of your scientific expertise.]

- Guignard Davy, Canlet Cécile, Tremblay-Franco Marie, Chaillou Elodie, Gautier Roselyne, Gayrard Véronique, Picard-Hagen Nicole, Schroeder Henri, Jourdan Fabien, Zalko Daniel, Viguié Catherine, and **Cabaton Nicolas J.** A low dose of bisphenol A impacts the maternal thyroid function and the metabolome of fetal brain regions in ovine species. *Environmental International*. 2022, 165. <https://doi.org/10.1016/j.envint.2022.107336>
- Villaret-Cazadamont Joran, Poupin Nathalie, Tournadre Anthony, Batut Aurélie, Gales Laura, Zalko Daniel, **Cabaton Nicolas J.**, Bellvert Florian and Bertrand-Michel Justine. An Optimized Dual Extraction Method for the Simultaneous and Accurate Analysis of Polar Metabolites and Lipids Carried out on Single Biological Samples. *Metabolites*. 2020, 19, 10 (9) : 338. doi: 10.3390/metabo10090338.
- Smith Lorraine, Villaret-Cazadamont Joran, Claus Sandrine P., Canlet Cécile, Guillou Hervé, **Cabaton Nicolas J.** and Ellero-Simatos Sandrine. Important considerations for sample collection in

metabolomics studies with a special focus on applications to liver functions. *Metabolites* 2020, 10, 104; doi:10.3390/metabo10030104

- **Cabaton Nicolas J.**, Poupin Nathalie, Canlet Cécile, Tremblay-Franco Marie, Audebert Marc, Cravedi Jean-Pierre, Riu Anne, Jourdan Fabien, and Zalko Daniel (2018). An Untargeted Metabolomics Approach to Investigate the Metabolic Modulations of HepG2 Cells Exposed to Low Doses of Bisphenol A and 17 $\beta$ -Estradiol. *Front Endocrinol*; 9:571. doi: 10.3389/fendo.2018.00571.
- Poupin Nathalie, Corlu Anne, **Cabaton Nicolas J.**, Dubois-Pot-Schneider H el ene, Canlet C ecile, Person Elodie, Bruel Sandrine, Frainay Cl ement, Vinson Florence, Maurier Florence, Morel Fabrice, Robin Marie-Anne, Fromenty Bernard, Zalko Daniel, and Jourdan Fabien. (2018). Large-Scale Modeling Approach Reveals Functional Metabolic Shifts during Hepatic Differentiation. *J Proteome Res.* doi: 10.1021/acs.jproteome.8b00524
- Zalko Daniel, Soto Ana M., Canlet Cecile, Tremblay-Franco Marie, Jourdan Fabien, and **Cabaton Nicolas J.** (2016). Bisphenol A exposure disrupts neurotransmitters through modulation of transaminase activity in the brain of neonate rodents. *Endocrinology* 157 (5), 1736-1739. DOI : 10.1210/en.2016-1207.
- Tremblay-Franco Marie, **Cabaton Nicolas J.**, Canlet C ecile, Gautier Roselyne, Jourdan Fabien, Vinson Florence, Soto Ana M., and Zalko Daniel (2015). Dynamic metabolic disruption in rats perinatally exposed to low doses of Bisphenol-A. *Plos One*, 10 (10). DOI : 10.1371/journal.pone.0141698
- **Cabaton Nicolas J.**, Meireles Maria-Helena., Canlet Cecile., Tremblay-Franco Marie., Jamin Emilien L., Dolo Laurence, Hillenweck Anne, Zalko Daniel. The HepaRG cell line: A valuable model for biotransformation and metabolomic studies, Abstracts / Toxicology Letters 259S (2016) S73–S247
- Le Fol Vincent, A it-A issa S elim, **Cabaton Nicolas J.**, Dolo Laurence, Grimaldi Marina, Balaguer Patrick, Perdu Elisabeth, Debrauwer Laurent, Brion Fran ois and Zalko Daniel (2015). Cell-Specific Biotransformation of Benzophenone-2 and Bisphenol-S in Zebrafish and Human in Vitro Models Used for Toxicity and Estrogenicity Screening. *Environmental Science and Technology* 49 (6):3860-3868. DOI : 10.1021/es505302c
- **Cabaton Nicolas J.**, Canlet C ecile, Wadia Perinaaz, Tremblay-Franco Marie, Gautier Roselyne, Molina J er ome, Sonnenschein Carlos, Cravedi Jean-Pierre, Rubin Beverly S., Soto Ana M., and Zalko Daniel (2013). Effects of low doses of bisphenol A on the metabolome of perinatally exposed CD-1 mice. *Environmental Health Perspectives*, 121, 586-593. DOI : 10.1289/ehp.1205588
- **Cabaton Nicolas J.**, Wadia Perinaaz R., Rubin Beverly S., Zalko Daniel, Schaeberle Cheryl M., Askenase Michael H., Gadbois Jennifer L., Tharp Andrew P., Whitt Gregory S., Sonnenschein Carlos, and Soto Ana M. (2011). Perinatal exposure to environmentally relevant levels of Bisphenol-A decreases fertility and fecundity in CD-1 mice. *Environmental Health Perspectives*, 119 (4): 547-552 DOI : 10.1289/ehp.1002559

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