

Curriculum Vitae

Last name, First name: Vergauwen, Lucia

Gender: F

Nationality/ies: Belgium

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*).]

Use of the zebrafish model (embryo, larva, adult) for fundamental and applied research. Understanding the mechanisms underlying toxicity, including endocrine disruption both in the context of ecotoxicology and human toxicology. European regulation related to hazard and risk evaluation of chemicals, including endocrine disrupting chemicals. Development of alternative testing strategies using in vitro and zebrafish embryo assays based on the 3R principle. Laboratory animal regulation and animal welfare (supervising and providing training to internal and external researchers on maintaining zebrafish colonies, performing animal experiments and animal welfare). Member of ethical committee.

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 [▲]
01/01/2021 – current	Project coordinator (50%)	Zebrafish lab, University of Antwerp, Belgium	Toxicology (alternative methods, endocrine disruption, aquatic toxicology, zebrafish)
06/07/2012 – current	Postdoctoral fellow (45%) I have always been 100% employed; this percentage has gradually shifted from 100% to 45%.	Zebrafish lab, University of Antwerp, Belgium	Toxicology (alternative methods, endocrine disruption, aquatic toxicology, zebrafish) + teaching animal physiology
01/10/2018 – current	Assistant professor (5%)	University of Antwerp, Belgium	Teaching toxicology
01/10/2006- – 05/7/2012	Predoctoral fellow	University of Antwerp, Belgium	Aquatic toxicology (metal toxicity, zebrafish)

[▲][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...]

Specific expertise in the field of the call

I coordinate all projects in the Zebrafish lab using the zebrafish model (embryo, larva, adult) for fundamental and applied research. I manage our zebrafish facility including the follow-up of laboratory animal regulation and the coordination of efforts concerning animal welfare. This includes supervising and providing training to internal and external researchers on maintaining zebrafish colonies, performing animal experiments and animal welfare. I'm teaching a Laboratory Animal Science module on fish that allows for obtaining a FELASA certificate at the University of Antwerp. As project coordinator and co-promoter I'm managing a project funded by the Flemish government and running in our lab on the development of a guidance document for improving zebrafish welfare in laboratory animal facilities (will be finished end 2022). I am a member of our lab's animal welfare cell, member of the University of Antwerp's Working group on animal welfare of the Ethical committee on the use of laboratory animals and a member of the Ethical committee on the use of laboratory animals of the University of Ghent.

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*
2012	Doctor of Science, Biology	University of Antwerp, Belgium	Environmental toxicology (zebrafish, metal toxicity)
2006	Master in Biomedical Sciences	University of Antwerp, Belgium	Environmental and Health Sciences
2006	Cat C Animal Experiment Leader	University of Antwerp, Belgium	Laboratory Animal Science

*[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):

- University of Antwerp's Working group on animal welfare of the ethical committee on the use of laboratory animals
- Ethical committee on the use of laboratory animals of the University of Ghent
- OECDs Thyroid Disruption Methods Expert Group

Memberships in Learned Societies (if any):

- Society for Environmental Toxicology and Chemistry (SETAC)
- Belgian Society of Toxicology and Ecotoxicology (BelTox)

Memberships in Editorial Boards (if any):

- Editorian board of Environmental Toxicology and Chemistry

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.]

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45 A1 Peer-reviewed publications. H-index (WoS): 23

1. Gölz L, Baumann L, Pannetier P, Braunbeck T, Knapen D, Vergauwen L. 2022. AOP Report: Thyroperoxidase Inhibition Leading to Altered Visual Function in Fish via Altered Retinal Layer Structure. *Environmental Toxicology & Chemistry* <https://doi.org/10.1002/etc.5452>
2. Thessen AE, Marvel S, Achenbach JC, Fischer S, Haendel MA., Hayward K, Klüver N, Könemann S, Legradi J, Lein P, Leong C, Mylroie JE, Padilla S, Perone D, Planchart A, Prieto RM, Muriana A, Quevedo C, Reif D, Ryan K, Stinckens E, Truong L, **Vergauwen L** et al. 2022. Implementation of zebrafish ontologies for toxicology screening. *Frontiers in Toxicology Section Computational Toxicology and Informatics*, 4, 817999
3. Massei R, Knapen D, Covaci A, Blust R, Mayer P, **Vergauwen L**. 2021. Sublethal Effect Concentrations for Nonpolar Narcosis in the Zebrafish Embryo. *Environmental Toxicology and Chemistry*, 40(10): 2802–2812
4. Knapen D, Stinckens E, Cavallin JE, Ankley GT, Holbech H, Villeneuve DL, **Vergauwen L**. 2020. Toward an AOP Network-Based Tiered Testing Strategy for the Assessment of Thyroid Hormone Disruption. *Environmental Science and Technology*, 54: 8491-8499.
5. Stinckens E, **Vergauwen L**, Blackwell BR, Ankley GT, Villeneuve DL, Knapen D. 2020. Effect of Thyroperoxidase and Deiodinase Inhibition on Anterior Swim Bladder Inflation in the Zebrafish. *Environmental Science and Technology*, 54: 6213-6223.
6. Gabriëls IJ, **Vergauwen L**, De Boevre M, Van Dongen S, Blust R, De Saeger S, Eeckhout M, De Loose M and Knapen D. 2019. Optimizing the Use of Zebrafish Feeding Trials for the Safety Evaluation of Genetically Modified Crops. *International Journal of Molecular Sciences* 20(6): 1472.
7. Michiels EDG, **Vergauwen L**, Lai FY, Town RM, Covaci A, van Nuijs ALN, Van Cruchten SJ, Knapen D. 2019. Advancing the zebrafish embryo test for endocrine disruptor screening using micro-injection: ethinyl estradiol as a case study. *Environmental Toxicology and Chemistry* 38: 533-547.
8. Stinckens E, **Vergauwen L**, Ankley GT, Blust R, Darras VM, Villeneuve DL, Witters H, Volz DC, Knapen D. 2018. An AOP-based alternative testing strategy to predict the impact of thyroid hormone disruption on swim bladder inflation in zebrafish. *Aquatic Toxicology* 200: 1-12.
9. **Vergauwen L*** & Cavallin JE*, Ankley GT, Bars, C, Gabriëls IJ, Michiels EDG, Fitzpatrick KR, Periz-Stanacev J, Randolph EC, Robinson SL, Saari TW, Schroeder AL, Stinckens E, Swintek J, Van Cruchten SJ, Verbueken E, Villeneuve DL, Knapen D. 2018. Gene transcription ontogeny of hypothalamic-pituitary-thyroid axis development in early-life stage fathead minnow and zebrafish. *General and Comparative Endocrinology* 266: 87-100
* Both authors contributed equally to this work.
10. **Vergauwen L**, Schmidt SN, Stinckens E, Maho W, Blust R, Mayer P, Covaci A, Knapen D. 2015. A high throughput passive dosing format for the Fish Embryo Acute Toxicity test. *Chemosphere* 139: 9-17.