

# Online course

## Making sense out of (bio)analytical data in chemical mixture assessment

This is an online course with four modules in four weeks from 18 Jan 2022 to 16 Feb 2022. The modules can also be taken independently. Levels can be chosen: basic/advanced/expert

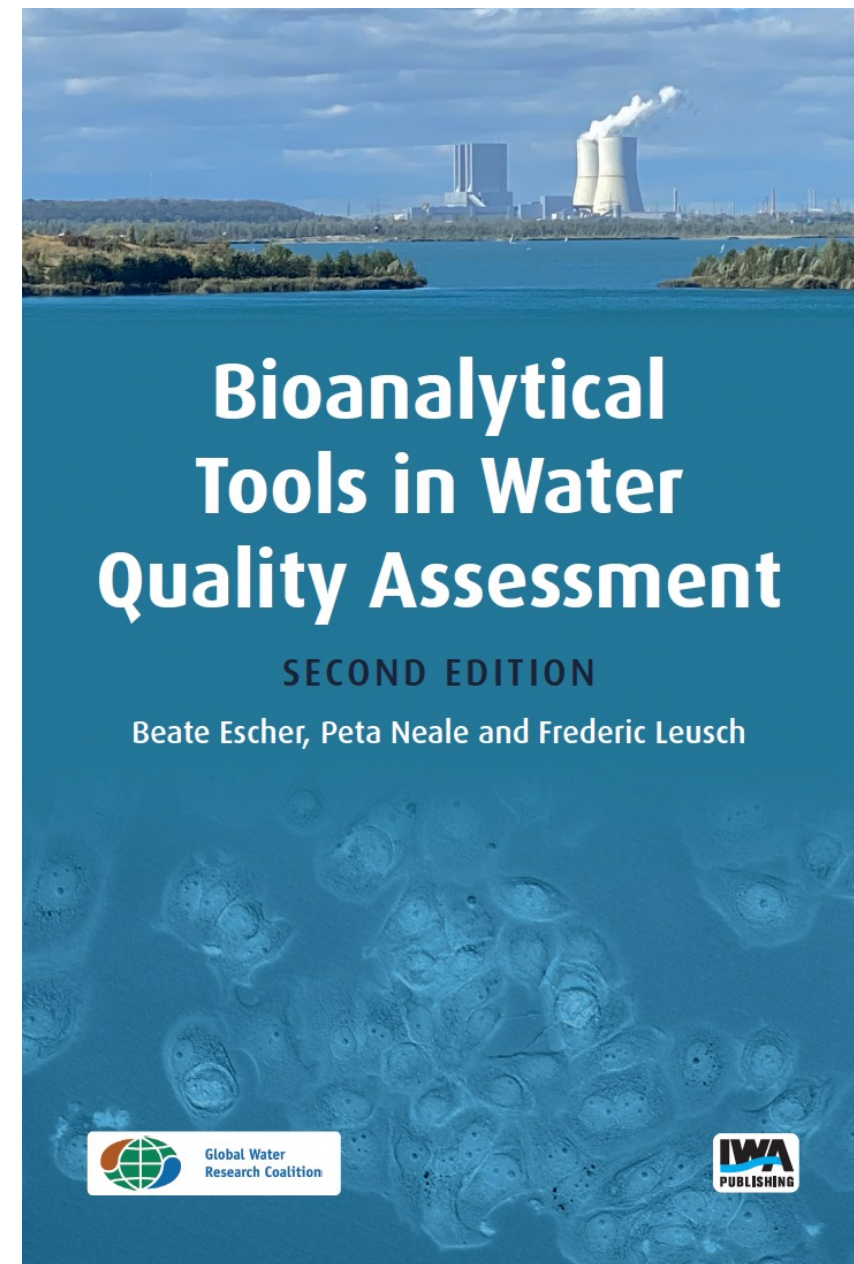
1. Basic knowledge for cell-based bioassays
2. Mixtures and environmental applications of in vitro bioassays
3. Your results are only as good as your methods
4. Application of in vitro assays for the risk assessment of chemicals

The course is self-paced: you will watch videos on [www.ufz.de/bioanalytical-tools/](http://www.ufz.de/bioanalytical-tools/) and/or read book chapters and work on questions and tasks. We will meet each week for a Q&A session via zoom to discuss your answers and further questions you may have.

See overleaf for time plan and more info on content.

**Lecturer:** Beate Escher, UFZ Leipzig

Questions? please send an e-mail to [bioanalytical-tools@ufz.de](mailto:bioanalytical-tools@ufz.de)  
Registration for course at [bioanalytical-tools@ufz.de](mailto:bioanalytical-tools@ufz.de)



# Online course January-February 2022

## Making sense out of (bio)analytical data in chemical mixture assessment

Required reading: Bioanalytical tools in water quality assessment, open access available via:  
<https://iwaponline.com/ebooks/book/832/Bioanalytical-Tools-in-Water-Quality-Assessment>

Module	Book chapter	additional chapters (not required)	video available at <a href="http://www.ufz.de/bioanalytical-tools/">www.ufz.de/bioanalytical-tools/</a>	Exercises	Discussion meetings on zoom
<b>1. Basic knowledge for cell-based bioassays</b>					
Introduction to course Tuesday 18 Jan 2022, 3-4 pm CET (UTC+1) via zoom					
Introduction to cell-based bioassays	1		Unit 1.mp4	Q&A chapter 1	<b>Wednesday 26 Jan 2022, 3-5 pm CET (UTC+1)</b>
Principles of cell based bioassays	10	4,5,6	Unit 10.mp4	Q&A chapter 10	
Concentration-response modelling	7		Unit 7.mp4	Q&A chapter 7	
<b>2. Mixtures and environmental applications of in vitro bioassays</b>					
Mixtures	8		Unit 8.mp4	Q&A chapter 8	<b>Wednesday 2 Feb 2022, 3-5 pm CET (UTC+1)</b>
Design of test batteries and interpretation of bioassay results	13	14	Unit 13.mp4	Q&A chapter 13	
<b>3. Your results are only as good as your methods</b>					
Quality control/quality assurance of bioassays	11		Unit11.mp4	Q&A chapter 11	<b>Wednesday 9 Feb 2022, 3-5 pm CET (UTC+1)</b>
Sampling and dosing	12	15	Unit12.mp4	Q&A chapter 12	
<b>4. Application of in vitro assays for the risk assessment of chemicals</b>					
Risk assessment of chemicals	2		Unit2.mp4	Q&A chapter 2	<b>Wednesday 16 Feb 2022, 3-5 pm CET (UTC+1)</b>
Water Quality Assessment and whole effluent toxicity testing	3		Unit3.mp4	Q&A chapter 3	
<i>In vitro</i> assays in risk assessment	9	16	Unit9.mp4	Q&A chapter 9	

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