

# Radboudumc

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This course is part of the Postgraduate Education in

Toxicology (PET) programme: <http://www.toxcourses.nl/>

## Course fee:

€ 3000,- (PhD-students can apply at [office.pet@wur.nl](mailto:office.pet@wur.nl) for a reduced fee)



Radboud Institute for Health Sciences  
Nijmegen, The Netherlands



Universiteit Utrecht

Institute for Risk Assessment Sciences



Division of Environmental Epidemiology, Universiteit Utrecht and  
Julius Center, University Medical Center Utrecht, The Netherlands



Academic Medical Center  
University of Amsterdam

Coronel Institute for Occupational Health



Netherlands Expertise Centre for Occupational Respiratory Disorders



LEIBNIZ-INSTITUT  
FÜR ARBEITSFORSCHUNG  
AN DER TU DORTMUND



IPA  
Institut für Prävention und Arbeitsmedizin  
der Deutschen Gesetzlichen Unfallversicherung  
Institut der Ruhr-Universität Bochum



Bundesanstalt für Arbeitsschutz  
und Arbeitsmedizin

**Preliminary programme of the  
post-graduate course in**

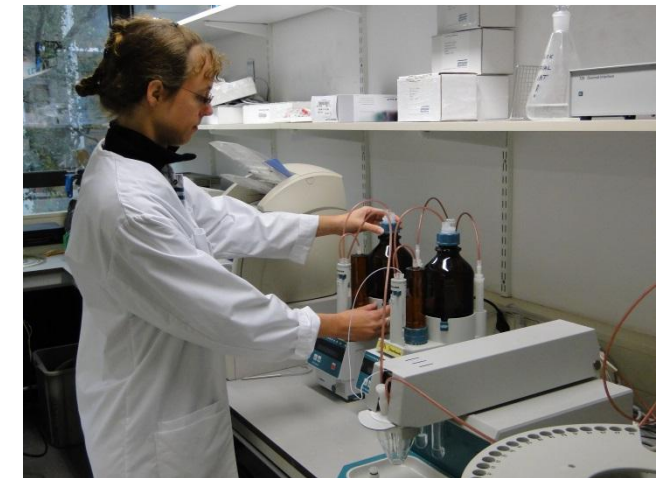
## **Occupational Toxicology**

**28 May – 1 June 2018**

**Nijmegen**

**4 – 8 June 2018**

**Dortmund/Bochum**



**Mon 28 May 2018 (Radboudumc, Nijmegen)**

- 10:30 Health risks at the workplace  
(P.T.J. Scheepers, Radboudumc)
- 11:30 Risk assessment of industrial chemicals  
(P.T.J. Scheepers, Radboudumc)
- 13:30 Dermatoxicology (S. Kezic, AMC)
- 14:30 PATCHWORK - Mining of toxicity data  
in the public domain (P.T.J. Scheepers,  
Radboudumc)

**Tue 29 May 2018 (Radboudumc, Nijmegen)**

- 09:30 Occupational hygiene: measuring,  
interpretation and reduction of exposure  
(Remko Houba, NKAL/PreventPartner)
- 11:00 Occupational allergies – principles  
(J. Rooijackers, NKAL/IRAS/UU)
- 12:30 Chemical reactivity and toxicology (P.T.J.  
Scheepers, Radboudumc)
- 14:30 SAR modeling of industrial chemicals  
(P.T.J. Scheepers, Radboudumc)

**Wed 30 May 2018 (Radboudumc, Nijmegen)**

- 09:30 Epigenetics in occupational health  
(L. Godderis, KU Leuven)
- 11:00 Nano, not only a matter of size  
(P. Hoet, KU Leuven)
- 13:30 Theory of skin absorption  
(P.T.J. Scheepers, Radboudumc)
- 14:30 QSAR modelling of skin absorption of  
(P.T.J. Scheepers, Radboudumc)

**Thu 31 May 2018 (Radboudumc, Nijmegen)**

- 09:30 Occupational accidents  
(P.T.J. Scheepers, Radboudumc)
- 10:30 Occupational epidemiology of health  
effects at the workplace (N. Roeleveld,  
Radboudumc)
- 11:30 Dose response modelling  
(P.T.J. Scheepers, Radboudumc)
- 13:30 Modeling of dose-response  
relationships to derive a safe dose

**Fri 1 June 2018 (Radboudumc, Nijmegen)**

- 09:30 General principles of biomonitoring  
(P.T.J. Scheepers, Radboudumc)
- 10:30 Biological monitoring following incidents  
(P.T.J. Scheepers, Radboudumc)
- 11:30 Chemical carcinogenesis and  
biomonitoring of occupational exposure to  
carcinogens (R. Vermeulen, IRAS/UU)
- 14:00 Biomonitoring of industrial chemicals  
(P.J. Boogaard, Shell Health)
- 15:30 Written examination –first part

**Mon 4 June 2018 (IfADo Dortmund)**

- 09:00 Introduction (J. Hengstler, IfADo)
- 10:30 Metabolism and carcinogenesis  
(J. Hengstler, IfADo)
- 13:00 Biological monitoring strategies in the chemical  
industry (G. Leng, Leverkusen)
- 13:45 Occupational exposure scenarios and  
carcinogenesis / OELs and biomonitoring  
(G.H. Degen, H.M. Bolt, K. Golka, IfADo)

**Tue 5 June 2018 (BAuA, Dortmund)**

- 09:00 Occupational exposure limit derivation (OELs)  
in Germany: methods & organisation (T. Gebel,  
BAuA)
- 09:30 Differences and similarities in OEL derivation:  
AGWs, MAK, DNELs, biocides (C. Guhe,  
BAuA)
- 10:15 Approaches to exposure assessment at the  
workplace (U. Schlüter, BAuA)
- 12:30 How to assess OEL compliance? Analytical  
practice (R. Hebisch, BAuA)
- 13:45 How to ensure occupational safety in case of  
exposure to carcinogens in Germany: risk-  
based exposure values (C. Drossard, BAuA)
- 14:45 Metal toxicology and OEL/cancer risk value  
derivation (A. Hartwig, Karlsruhe)
- 16:15 Microparticles, nanoparticles and fibres: OELs  
in Germany (T. Gebel, BAuA)

**Wed 6 June 2018 (IPA, Bochum)**

- 09:00 Organizational matters of the accident Insurance  
System in Germany (R. Merget, IPA)
- 10:00 Clinical aspects of respiratory diseases and  
occupational allergy (R. Merget, IPA)
- 10:30 Biological monitoring (H.M. Koch, IPA)
- 11:00 Early cancer detection at the workplace using  
biomarkers (H.U. Käfferlein, IPA)
- 13:00 Study designs in occupational allergy (M. Raulf, IPA)
- 13:30 Field studies in occupational toxicology - strengths,  
pitfalls and practical experiences (P. Welge, IPA)
- 14:00 Data modeling of occupational exposures (D.  
Taeger, IPA)
- 14:30 Hazard and risk assessment - individual Examples  
(H.U. Käfferlein, IPA)

**Thu 7 June 2018 (IfADo Dortmund)**

- 09:00 Occupational diseases: general aspects,  
toxicological examples, legal aspects, systems in  
Germany and in the Netherlands (E. Hallier,  
Göttingen, T. Pal, Amsterdam, K. Golka, IfADo)
- 13:00 Chronic solvent-induced encephalopathy (CSE) – An  
European consensus for the assessment of an  
occupational disease (C. van Thriel, IfADo)
- 13:30 Biological targets of organic solvents: Ion channels  
and ligand-gated receptors in the nervous system (J.  
Liebing, IfADo)
- 14:00 In vitro methods for the assessment of acute solvents  
effects: Ca-Imaging and two-electrode voltage clamp  
(R. Lehmann, IfADo)
- 14:30 Assessment of acute solvent effects in experimental  
exposure studies: The IfADo ExpoLab (C. van Thriel,  
IfADo)

**Fri 8 June 2018 (IfADo Dortmund)**

- 09:00 Occupational toxicology of particles (P. Morfeld,  
Essen)
- 10:30 Estimating the remaining replicative potential of  
pollutant exposed cells". (P. Ziegler, RWTH, Aachen)
- 13:00 Written examination –second part