

## PERSONAL INFORMATION Carlijn Hooijmans

**POSITION** Assistant professor (permanent position) at SYStematic Review Centre for Laboratory Experimentation (SYRCLE), Department for Health Evidence, and Department of Anaesthesiology, pain and palliative care

**WORK EXPERIENCE****2020–Present Research fellow (part-time) at EBTC**

Evidence-based Toxicology Collaboration, Johns Hopkins Bloomberg School of Public Health, Baltimore (USA).

**2014–Present Assistant professor, methodologist, lecturer at SYRCLE**

SYStematic Review Centre for Laboratory animal Experimentation (SYRCLE) and department of Anesthesiology, Radboud university medical center, Nijmegen (Netherlands)

- 2018-2020: Developer and trainer for EFSA Trainings in Collecting, Appraising and Synthesising Evidence for EFSA scientific assessments, focus on course 3 (meta analysis & interpretation).
- 2016-2017: Member of the EFSA Working Group on BPA Assessment Protocol
- 2016-2018: Developer and trainer for EFSA Training in Systematic Reviews or in specific steps of systematic reviews for EFSA Risk Assessment, focus on course 2 (meta analysis).
- 2008-present: Teaching, developing and applying methods of preclinical evidence synthesis (systematic reviews, meta-analysis and GRADE)
- 2013-present: Performing systematic reviews in Anesthesiology and Oncology
- 2008-present: Performing methodological research on quality of reporting, risk of bias, certainty in the evidence (GRADE), meta-analysis and in preclinical studies
- 2008-present: Developer and lecturer of undergraduate teaching on preclinical systematic review methodology, focus on risk of bias, study quality and meta-analysis and GRADE
- 2012-present: International training and coaching of post-graduate and post-doctoral researchers performing a preclinical systematic review
- 2008-present: Training and supervision of students and PhD students
- 2014-present: Building a network and approach for evaluating a body of experimental animal evidence. (e.g. lead of the "GRADE for Animal Studies Project Group" of the GRADE working group.
- 2015-present: Initiator and project leader of the international collaboration with the Office of Health Assessment and Translation (OHAT), Division of National Toxicology Program (NTP), National Institute of Environmental Health Science. Title project: methodological issues in meta analysis of preclinical studies.
- 2014-present: Setting up a new research line on evaluating the effects of anesthetics and

analgesics in the development of metastasis in cancer by means of evidence synthesis in preclinical and clinical research.

- 2015: E-learning developer, focus on risk of bias and meta-analysis

2008-2013 **Research fellow**

SYstematic Review Centre for Laboratory animal Experimentation (SYRACLE), Radboud university medical center, Nijmegen (Netherlands)

- Project leader for developing methodology and relating tools for improving the quality of animal experiments and conducting systematic reviews and meta-analysis in preclinical research (Funding: Economical Affairs, the Netherlands (130.000 Euro)

Risk of bias tool

Protocol for preclinical systematic reviews

Starting guide for preclinical systematic reviews

- Developer and lecturer international workshops on preclinical systematic review methodology

**EDUCATION AND TRAINING**

2004-2008

PhD - thesis title: " Impact of nutritional lipids and vascular factors in Alzheimer's Disease. – a study of transgenic Alzheimer mice. - "

Department of Anatomy and Radiology, Radboud university medical center, Nijmegen (Netherlands)

1999-2004

BSc and MSc in Biomedical Sciences/ Pathobiology

Faculty of medicine, Radboud University, Nijmegen (Netherlands)

**PERSONAL SKILLS**

Mother tongue(s)

Dutch

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C	C	C	C	C

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user  
[Common European Framework of Reference for Languages](#)

Communication skills

Excellent communication skills gained through:

- my experience in teaching, training and coaching of students, PhD students and post-doctoral researchers
- my active role in national and international collaborations (GRADE project group, and technical advisor (Lancaster University, National Institute of Environmental Health Science)

Organisational / managerial skills

- Initiator and Project leader of "the GRADE for Animal Studies Project Group" of the GRADE working group
- Project leader of "developing methodology and tools for systematic reviews and meta-analysis in preclinical research" (Funding: Economical Affairs, the Netherlands (130.000 Euro)
- Organisation of scientific meetings at the annual Cochrane meeting, GRADE meeting
- Initiator and project leader of the international collaboration with the Office of Health Assessment and Translation (OHAT), Division of National Toxicology Program (NTP), National Institute of Environmental Health Science). Acquisition of €33.000+ in research funding.

- Job-related skills**
- good command of systematic review techniques
  - at least 10 years of experience in teaching systematic review methodology (in English)
  - 8 years of experience in supervising post-graduate and post-doctoral researchers performing a preclinical systematic review
  - Developer of and trainer in (inter)national workshops on systematic review and meta-analysis for research professionals and policy makers (in English).
- Computer skills**
- good command of Microsoft Office™ tools

---

**ADDITIONAL INFORMATION**

- Memberships**
- Technical advisor, The Office of Health Assessment and Translation (OHAT), Division of National Toxicology Program (NTP), National Institute of Environmental Health Science
  - Committee member of The Netherlands Organisation for Health Research and Development (Dutch ZonMw)
  - Member of the Methodology Advisory Board van SABRE in de UK ([www.sabre.org.uk](http://www.sabre.org.uk): Promoting Systematic Reviews for better health care).
  - Member of review group: Policy from Science Project (Paul Whaley, Lancaster Environment Centre, Lancaster University, UK)
- Courses**
- Meta-analysis B (083013), Advanced Meta-analysis; Statistics.com
  - GRADE; grading of recommendations assessment, development and evaluation. Dutch Cochrane Centre and the Dutch Institute for Healthcare Improvement (CBO)
  - Meta-analysis A (071511), Statistics.com
  - Postdoctoral education in epidemiology: systematic reviews theory and practice, EMGO institute VU Medical Centre
  - Evidence Based medicine (EBM) in clinical practice, Cochrane Collaboration, AMC, the Netherlands
  - Academic Writing (English), Radboud University Nijmegen
  - Educational skills (lecturer professionalization): working groups, lectures, examination, Interactive lectures.
- 13 selected original articles**
- **Hooijmans CR**, Draper D, Ergün M, Scheffer GJ. The effect of analgesics on stimulus evoked pain-like behaviour in animal models for chemotherapy induced peripheral neuropathy- a meta-analysis. *Sci Rep*. 2019 Nov 26;9(1):17549. doi: 10.1038/s41598-019-54152-8.
  - Gadgil S, Ergün M, van den Heuvel SA, van der Wal SE, Scheffer GJ, **Hooijmans CR**. systematic summary and comparison of animal models for chemotherapy induced (peripheral) neuropathy (CIPN). *PLoS One*. 2019 Aug 28;14(8):e0221787. doi: 10.1371/journal.pone.0221787. eCollection 2019.
  - **Hooijmans CR**, de Vries RBM, Ritskes-Hoitinga M, Rovers MM, Leeflang MM, Int'Hout J, et al. Facilitating healthcare decisions by assessing the certainty in the evidence from preclinical animal studies. *PLoS One*. 2018;13(1):e0187271.
  - **Hooijmans CR**, Geessink FJ, Ritskes-Hoitinga M, Scheffer GJ. A Systematic Review of the Modifying Effect of Anaesthetic Drugs on Metastasis in Animal Models for Cancer. *PLoS One*. 2016;11(5):e0156152.
  - **Hooijmans CR**, Geessink FJ, Ritskes-Hoitinga M, Scheffer GJ. A systematic review and meta-analysis of the ability of analgesic drugs to reduce metastasis in experimental cancer models. *Pain*. 2015 Oct;156(10):1835-44
  - **Hooijmans CR**, De Vries RBM, Langendam MW, Van Luijk J, Leenaars M, Ritskes-Hoitinga M,

Wever KE. A protocol format for the preparation, registration and publication of systematic reviews of animal intervention studies. Evidence-based Preclinical Medicine 2015 1;(1): 1–9

- **Hooijmans CR**, Rovers MM, de Vries RB, Leenaars M, Ritskes-Hoitinga M, Langendam MW. SYRCLE's risk of bias tool for animal studies. BMC Med Res Methodol. 2014;14:43.
- **Hooijmans CR**, Int'Hout J, Ritskes-Hoitinga M, Rovers MM. Meta-analyses of animal studies: an introduction of a valuable instrument to further improve healthcare. ILAR J. 2014;55(3):4 18-26
- **Hooijmans CR**, Ritskes-Hoitinga M. Progress in using systematic reviews of animal studies to improve translational research. PLoS Med. 2013 Jul;10(7):e1001482. doi: 10.1371/journal.pmed.1001482.
- van Luijk J, Leenaars M, **Hooijmans C**, Wever K, de Vries R, Ritskes-Hoitinga M. Towards evidence-based translational research: the pros and cons of conducting systematic reviews of animal studies. ALTEX. 2013;30(2):256-7.
- de Vries RB, **Hooijmans CR**, Tillema A, Leenaars M, Ritskes-Hoitinga M. A search filter for increasing the retrieval of animal studies in Embase. Lab Anim. 2011;45(4):268-70.
- **Hooijmans CR**, Tillema A, Leenaars M, Ritskes-Hoitinga M. Enhancing search efficiency by means of a search filter for finding all studies on animal experimentation in PubMed. Lab Anim. 2010;44(3):170-5.
- **Hooijmans CR**, Leenaars M, Ritskes-Hoitinga M. A gold standard publication checklist to improve the quality of animal studies, to fully integrate the Three Rs, and to make systematic reviews more feasible. Altern Lab Anim. 2010;38(2):167-82.

Place and date 22012021