

Curriculum Vitae - Dorien Reijnders, PhD.

1. Contact information

[linkedin.com/in/dorienreijnders88](https://www.linkedin.com/in/dorienreijnders88)



2. Professional Experience

- 2020-now. **Research & Policy advice - Municipal Health Services**
Municipal Health Services South-Limburg, Heerlen, NL
- 2018-2020 **Project leader/postdoctoral researcher ‘Towards Prepared Mums (TOP-mums): a preconception lifestyle intervention study’**
Dept. of Pediatrics, Maastricht University Medical Center+, Maastricht, NL
- 2017-2018 **Postdoctoral researcher ‘Metabolic origins of infertility and pregnancy complications in obese women and mice’**
Pennington Biomedical Research Center (PBRC), Baton Rouge, LA, USA
Veterinary Clinical Sciences (VCS), Louisiana State University, Baton Rouge, LA, USA
- 2016-2017 **Research Assistant ‘Personalized nutrition in glucose control’**
Top Institute Food and Nutrition, Dept of Human Biology, Maastricht University, NL
- 2011-2015 **Academic Tutor and Mentor, ‘Molecular Life Sciences’ & ‘Health Sciences’**
Maastricht University, NL

3. Education

- 2011-2016 **Ph.D., Human Biology, A Top Institute Food and Nutrition (TIFN) Project: ‘Effects of the knock-down of gut microbiota by antibiotics on body weight control and insulin sensitivity’**
Mentors: Prof. Blaak, Dr. Goossens, Dept of Human Biology, Maastricht University, NL
- 2009-2011 **M.Sc., Biomedical Sciences, Major Toxicology and Major Pathobiology (Bene meritum)**
Dept. of Pharmacology and Toxicology, Radboud Centre for Molecular Life Sciences (RCMLS), Nijmegen, NL; Dept. of Toxicology, Institute for Environmental Medicine, Karolinska Institute, Stockholm, SE
- 2006-2009 **B.Sc., Biomedical Sciences (Bene meritum)**
Radboud University Nijmegen, Nijmegen, NL; Laboratory of Pediatrics and Neurology, UMC St. Radboud, Nijmegen, NL
- 2000-2006 **Pre-University Education (VWO), Nature and Health profile**
Sintermeertencollege, Heerlen, The Netherlands
- 2011-2019 **Additional courses:** Radiation Protection level 5, Laboratory Animal Science (art 9), Molecular and Clinical Nutrition I and II, Motivational Interviewing, Good Clinical Practice, Career Management, Self-Management, Time Management, Intellectual Property, Presentation skills, Publishing world-class papers, Statistics I and II, Problem-based learning, Research and the Media

4. Conferences and Presentations

- April 2019 **Food and lifestyle conference, ‘Vereniging Arts & Leefstijl’**
Utrecht, NL
- Nov 2018 **Ann Meeting Young Pediatrics Investigators**
Utrecht, NL
- April 2018 **Experimental Biology Annual Meeting (Poster)**
San Diego, California, USA
- Feb 2018 **Phi Zeta Research Emphasis Day, Louisiana State University (Poster)**
Baton Rouge, Louisiana, USA
- Nov 2017 **Louisiana State University International Research Fair (Poster)**
Baton Rouge, Louisiana, USA
- Nov 2015 **Ann Meeting NL Association for the study on Diabetes (NVDO) (Oral Presentation)**
Oosterbeek, NL
- June 2015 **European Molecular Biology Laboratory conference; The Human Microbiome (Poster)**
Heidelberg, GER
- May 2015 **Ann meeting European Association for the Study on Obesity (EASO) (Oral Presentation)**
Prague, CZ
- April 2015 **Ann meeting Netherlands Association for the study of Obesity (NASO) (Oral Presentation)**
Den Bosch, NL
- Jan 2015 **Young NVDO (Oral Presentation)**
Soesterberg, NL
- May 2014 **Microbiota in Health and Disease; German association for Gastroenterology and Metabolic disorders (DGVS)**
Berlin, GER
- Oct 2014 **Fibers in Food and Feed Symposium**
Wageningen, NL
- Sep 2013 **Ann Meeting of European Association for the Study of Diabetes (EASD)**
Barcelona, ES
- Dec 2012 **Nutricia Research Meeting (Invited oral presentation)**
Wageningen, NL
- Nov 2012 **Gut day Symposium; Gut Flora Foundation**
Leuven, BE
- May 2012 **Ann meeting of (EASO)**
Lyon, FR

5. Awards and grants

- Aug 2019 **ZonMw grant JZOJP: ‘Top-mums implementation in Zuid-Limburg’**
Awarded by The Netherlands Organization for Health Research and Development
- Jul 2018 **VCS research grant ‘Glucose and insulin control in BPH/5 mouse model for preeclampsia’.**
Sponsored by the Veterinary Clinical Sciences CORP fund, Louisiana State University, Baton Rouge, USA
- May 2018 **Endocrinology and Metabolism Research Recognition Award**
Awarded by the American Physiological Society at Experimental Biology, San Diego, USA
- Mar 2018 **Postdoctoral travel award** for poster presentation Experimental Biology meeting San Diego.
Awarded by the School of veterinary medicine, Louisiana State University, Baton Rouge, USA
- Sep 2017 **Poster award**, Louisiana State University International Research Fair Contest, winner.
LSU International Programs, Baton Rouge, USA

- Aug 2017 **VCS research grant** ‘Metabolic characterization of the BPH/5 mouse model for preeclampsia’. Sponsored by the Veterinary Clinical Sciences CORP fund, Louisiana State University, Baton Rouge, USA
- Jan 2015 **Travel grant** for Oral Presentation at the European Conference on Obesity in Prague, CZ
Awarded by the Netherlands Association for the study on Obesity, Utrecht, The Netherlands

6. Publications

1. Individual and cohort-specific gut microbiota patterns associated with tissue-specific insulin sensitivity in overweight and obese males [Reijnders D](#), Hermes GD, Kootte RS, Goossens GH, Smidt H, Nieuwdorp M, Zoetendal EG, Blaak EE. *Sci Rep* 10, 7523 (2020)
2. Towards Prepared mums (TOP-mums) for a healthy start, a lifestyle intervention for women with overweight and a child wish: Study protocol for a randomised controlled trial in the Netherlands Timmermans, Y, Van de Kant K, Kleijkers L; [Reijnders D](#), Dompeling E, Kramer B, Zimmermann L, Steegers-Theunissen R, Spaanderman M, Vreugdenhil, A *BMJ Open* 2019;9:e030236
3. Patient Adherence to Medical Treatment Regimens & Healthy Lifestyle Behaviors: Promoting Evidence-based Research and Practice. Chapter 15: Pregnancy and Reproductive Health. *Springer Publishing Group, expected publication* [Reijnders D](#), Redman L
4. Circulating but not faecal short-chain fatty acids are related to insulin sensitivity, lipolysis and GLP-1 concentrations in humans. Müller M, Hernández MAG, Goossens GH, [Reijnders D](#), Holst JJ, Jocken JWE, van Eijk H, Canfora EE, Blaak EE. *Sci Rep*. 2019 Aug 29;9(1):12515
5. Dyslipidemia and the role of adipose tissue in early pregnancy in the BPH/5 mouse model for preeclampsia. [Reijnders D](#), Olson KN, Liu CC, Beckers KF, Ghosh S, Redman LM, Sones JL. *Am J Physiol Regul Integr Comp Physiol*. 2019 Jul 1;317(1):R49-R5
6. Effects of amoxicillin and vancomycin on skeletal muscle substrate metabolism in obese men: a randomized controlled trial. [Reijnders D](#), Goossens GH, Hermes GDA, Smidt H, Zoetendal EG, Blaak EE. *Obesity Facts*, 2018 Aug 9;11(4):318-326
7. Effects of gut microbiota manipulation on ex vivo lipolysis in human abdominal subcutaneous adipocytes. [Reijnders D](#), Jocken JWE, Canfora EE, Boekschoten MV, Plat J, Goossens GH, Blaak EE *Adipocyte*, 2018 Apr 25:1-7
8. Celecoxib restores angiogenic factor expression at the maternal-fetal interface in the BPH/5 mouse model of preeclampsia. [Reijnders D](#), Liu CC, Xu X, Zhao A, Olson K, Butler S, Douglas N, Sones JL *Physiological Genomics* 2018 May 1;50(5):385-392
9. Effects of Gut Microbiota Manipulation by Antibiotics on Host Metabolism in Obese Humans: A Randomized Double-Blind Placebo-Controlled Trial. [Reijnders D](#), Goossens GH, Hermes GD, Neis EP, van der Beek CM, Most J, Holst JJ, Lenaerts K, Kootte RS, Nieuwdorp M, Groen AK, Olde Damink SW, Boekschoten MV, Smidt H, Zoetendal EG, Dejong CH, Blaak EE. *Cell Metabolism*. 2016 Aug 9;24(2):341
10. The effects of amoxicillin and vancomycin on parameters reflecting cholesterol metabolism Baumgartner S, [Reijnders D](#), Konings M, Groen AK, Goossens GH, Blaak EE, Plat J *Chemistry and Physics of Lipids*. 2017 Oct; 207:239-245
11. Oral iron supplementation: potential implications for the gut microbiome and metabolome in patients with CKD Kortman GAM, [Reijnders D](#), Swinkels DW *Hemodialysis International*; 2017 Jun;21 Suppl 1:S28-S36
12. Gut microbiota composition strongly correlates to peripheral insulin sensitivity in obese men but not in women. Most J, Goossens GH, [Reijnders D](#), Canfora EE, Penders J, Blaak EE *Beneficial Microbes*; 2017 Mar
13. Impact of oral vancomycin on gut microbiota, bile acid metabolism, and insulin sensitivity. Vrieze A, Out C, Fuentes S, Jonker L, Reuling I, Kootte RS, van Nood E, Holleman F, Knaapen M, Romijn JA, Soeters MR, Blaak EE, Dallinga-Thie GM, [Reijnders D](#), Ackermans MT, Serlie MJ, Knop FK, Holst JJ, van der Ley C, Kema IP, Zoetendal EG, de Vos WM, Hoekstra JB, Stroes ES, Groen AK, Nieuwdorp M. *Journal of Hepatology*. 2014 Apr;60(4):824-31.
14. 5-Fluorouracil-induced RNA stress engages a TRAIL-DISC-dependent apoptosis axis facilitated by p53. Akpınar B, Bracht EV, [Reijnders D](#), Safarikova B, Jelinkova I, Grandien A, Vaculova AH, Zhivotovsky B, Olsson M. *Oncotarget*. 2015 Dec 22;6(41):43679-97.
15. Uremic toxins inhibit renal metabolic capacity through interference with glucuronidation and mitochondrial respiration. Mutsaers HA, Wilmer MJ, Reijnders D, Jansen J, van den Broek PH, Forkink M, Schepers E, Glorieux G, Vanholder R, van den Heuvel LP, Hoenderop JG, Masereeuw R. *Biochimica Biophysica Acta*. 2013 Jan;1832(1):142-50.

16. Role of p-glycoprotein expression and function in cystinotic renal proximal tubular cells. Peeters K, Wilmer MJ, Schoeber JP, Reijnders D, Heuvel LP, Masereeuw R, Levtchenko E. *Pharmaceutics*. 2011 Oct 27;3(4):782-92