

# Jos van Nijnatten

PHD CANDIDATE · FACULTY OF SCIENCE, UTS

University of Technology Sydney, 15 Broadway, Ultimo, NSW 2007

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## Education

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### University of Technology, Sydney (UTS)

PHD IN SCIENCE

- Advisor: Dr. Alen Faiz
- Advisor: Prof. Dr. Brian Oliver

Sydney, Australia  
May 2019 - April 2024

### University of Groningen (RUG)

PHD IN SCIENCE

- Advisor: Dr. Maarten van den Berge
- Advisor: Dr. Corry-Anke Brandsma
- Advisor: Prof. Dr. Wim Timens

Groningen, The Netherlands  
May 2019 - April 2024

### Breda University of Applied Sciences

BASC BIOLOGY AND MEDICAL RESEARCH

- (Major) Molecular Research
- (Minor) Bioinformatics

Breda, The Netherlands  
September 2008 - June 2012

### Radius College

MICROBIOLOGICAL ANALYST

Breda, The Netherlands  
September 2004 - June 2008

## Professional Experience

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- 2023 **Teaching Assistant**, University of Technology, Sydney
- 2016-2019 **Software Engineer**, Centric (Software professionals, South)
- 2017-2019 **C#/.NET Software Developer**, Citrus Software
- 2016-2017 **C#/.NET Software Developer**, Philips Healthcare
- 2014-2016 **C#/.NET Software Developer**, SCT bv
- 2014 **C#/.NET Software Developer**, Young Capital
- 2012-2014 **Technical Engineer**, Synchron Lab Automation
- 2008-2012 **Microbiological analyst**, Alcontrol Food & Water
- 2011-2012 **Trainee bioinformatics**, Dept. of bioinformatics, Erasmus Meical University Hospital (EMC)
- 2010-2011 **Trainee**, Woolcock Institute/University of Sydney(USyd)

## Publications

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### PUBLISHED

- Senani N.H. Rathnayake, Benedikt Ditz, Jos van Nijnatten, Tayyaba Sadaf, Philip M. Hansbro, Corry A. Brandsma, Wim Timens, Annemarie van Schadewijk, Peter S. Hiemstra, Nick H.T. ten Hacken, Brian Oliver, Huib A.M. Kerstjens, Maarten van den Berge\*, Alen Faiz\***. 2022. *Smoking induces shifts in cellular composition and transcriptome within the bronchial mucus barrier*. *Respirology*, <https://doi.org/10.1111/resp.14401>
- Elise M. A. Slob, Alen Faiz, Jos van Nijnatten, Susanne J. H. Vijverberg, Cristina Longo, Merve Kutlu, Fook Tim Chew, Yang Yie Sio, Esther Herrera-Luis, Antonio Espuela-Ortiz, Javier Perez-Garcia, Maria Pino-Yanes, Esteban G. Burchard, Uroš Potočnik, Mario Gorenjak, Colin Palmer, Cyrielle Maroteau, Steve Turner, Katia Verhamme, Leila Karimi, Somnath Mukhopadhyay, Wim Timens, Pieter S. Hiemstra, Mariëlle W. Pijnenburg, Margaret Neighbors, Michele A. Grimbaldston, Gaik W. Tew, Corry A. Brandsma, Vojko Berce, Hananeh Aliee, Fabian Theis, Don D. Sin, Xuan Li, Maarten van den Berge, Anke H. Maitland-van der Zee, Gerard H. Koppelman\***. 2022. *Association of bronchial steroid inducible methy-*

lation quantitative trait loci with asthma and chronic obstructive pulmonary disease treatment response. *Clinical and Translational Allergy*, <https://doi.org/10.1002/clt2.12173>

**Mirjam P. Roffel**, Ilse M. Boudewijn, Jos L.L. van Nijnatten, Alen Faiz, Corneel J. Vermeulen, Antoon J. van Oosterhout, Karen Affleck, Wim Timens, Ken R. Bracke, Tania Maes, Irene H. Heijink, Corry-Anke Brandsma\*, Maarten van den Berge\*. 2022. *Identification of asthma-associated microRNAs in bronchial biopsies*. *European Respiratory Journal*, 59: 2101294, <https://doi.org/10.1183/13993003.01294-2021>

**Jos van Nijnatten**, Corry-Anke Brandsma, Katrina Steiling, Pieter S. Hiemstra, Wim Timens, Maarten van den Berge\*, Alen Faiz\*. 2022. *High miR203a-3p and miR-375 expression in the airways of smokers with and without COPD*. *Scientific Reports*, <https://doi.org/10.1038/s41598-022-09093-0>

**Hananeh Aliee, Florian Massip, Cancan Qi, Maria Stella de Biase, Jos van Nijnatten, Elin T. G. Kersten, Nazanin Z. Kermani, Basil Khuder**, Judith M. Vonk, Roel C. H. Vermeulen, U-BIOPRED study group, Cambridge Lung Cancer Early Detection Programme, INER-Ciencias Mexican Lung Program, Margaret Neighbors, Gaik W. Tew, Michele A. Grimbaldeston, Nick H. T. ten Hacken, Sile Hu, Yike Guo, Xiaoyu Zhang, Kai Sun, Pieter S. Hiemstra, Bruce A. Ponder, Mika J. Mäkelä, Kristiina Malmström, Robert C Rintoul\*, Paul A. Reyfman\*, Fabian J. Theis\*, Corry-Anke Brandsma\*, Ian M. Adcock\*, Wim Timens\*, Cheng-Jian Xu\*, Maarten van den Berge\*, Roland F. Schwarz\*, Gerard H. Koppelman\*, M.C. Nawijn\*, Alen Faiz\*. 2021. *Determinants of expression of SARS-CoV-2 entry-related genes in upper and lower airways*. *Allergy*, <https://doi.org/10.1111/all.15152>

**Saskia Hiltmann**, Elizabeth A. McClellan, Jos van Nijnatten, Sebastiaan Horsman, Ivo Palli, Ines Teles Alves, Thomas Hartjes, Jan Trapman, Peter van der Spek, Guido Jenster, Andrew Stubbs\*. 2013. *iFUSE: integrated fusion gene explorer*. *Bioinformatics*, 29(13), 1700-17011, <https://doi.org/10.1093/bioinformatics/btt252>

## IN REVIEW

**Jos van Nijnatten**, Alen Faiz, Wim Timens, Victor Guryev, Dirk-Jan Slebos, Karin Klooster, Jorine Hartman, Tessa Kole2, David F. Choy, Michele Grimbaldeston, Carrie Rosenberger, Genentech partners, Huib Kerstjens, Corry-Anke Brandsma\*, Maarten van den Berge\*. 2023. *Unique differentially expressed genes in Bronchial Brushes in severe COPD and a potential biomarker in the nose*. *European Respiratory Journal*.

## IN PREP

**Jos van Nijnatten**, Cornelis Joseph Vermeulen, Alen Faiz, Wim Timens, Maaïke de Vries, Pieter Hiemstra, Corry-Anke Brandsma, Maarten van den Berge. *Differential methylation in bronchial biopsies between COPD patients and healthy subjects*.

**Jos van Nijnatten**, Wim Timens, Pieter Hiemstra, Corry-Anke Brandsma, Maarten van den Berge, Alen Faiz. *Methylation affected by inhaled corticosteroids in patients with COPD*.

## Presentations

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\* presenting author; + mentored undergraduate

### CONTRIBUTED PRESENTATIONS

**Jos van Nijnatten**. 2023. *Title tbd*. Oral presentation: TSANZSRS, Christchurch, NZ.

**Jos van Nijnatten**. 2022. *Title tbd*. Oral presentation: Name, Sydney, AU.

**Jos van Nijnatten**. 2022. *Title tbd*. Poster presentation: ASMR, Sydney, AU.

**Jos van Nijnatten**. 2022. *Title tbd*. Oral presentation: TSANZ, Sydney, AU.

**Jos van Nijnatten**. 2022. *Title tbd*. Poster presentation: ERS, Sydney, AU.

**Jos van Nijnatten**. 2022. *Title tbd*. Poster presentation: ???, Groningen, NL.

**Jos van Nijnatten**, Corry-Anke Brandsma, Pieter Hiemstra, Wim Timens, Maarten Van Den Berge, Alen Faiz. 2020. *Changes in DNA methylation after corticosteroids treatment in COPD patients*. Poster presentation: ERS, Online. <https://doi.org/10.1183/13993003.congress-2020.4783>

**Jos van Nijnatten**. 2019. *Title tbd*. Oral presentation: NAME, Sydney, AU.

**Jos van Nijnatten**. 2019. *Title tbd*. Oral presentation: TSANZ, Sydney, AU.

## Teaching Experience

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Fall 2023 **Human genetics and precision medicine**, Teaching Assistant

## Mentoring

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2021-2022 **Douwe Metselaar**, BSc, Van Hall Larenstein University of Applied Sciences

2020 **Rinze Pieter Jonker**, BSc, Hanze University of Applied Sciences

## Outreach & Professional Development

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### PROFESSIONAL MEMBERSHIPS

European Respiratory Society

Thoracic Society Australia & New Zealand

Australian Society for Medical Research

Australian Bioinformatics and Computational Biology Society