### Curriculum Vitae

## Dr. ir. Frederiek - Maarten Kerckhof

November 4, 2019

#### General information

#### Personalia

• Last name: Kerckhof

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• E-mail: frederiekmaarten.kerckhof@ugent.be

• Date and place of birth: November 14, 1988 (Bruges)

- Affiliation: Ghent University, Faculty of bioscience engineering, Center for Microbial ecology and technology (CMET).
- Address: Coupure Links 653, 9000 Gent, Belgium
- Family: Varvara Tsilia (spouse) and Phileas Kerckhof Tsilias (son, \*15/09/16)

#### Experience

#### • Current: 50% Bio-informatician and 50% IOF-Postdoc

- IOF-Postdoc
  - $\ast\,$  IOF StepStone project "KYTOS": on-time microbial management for sustainable bioprocesses
  - \* As part of the team with a focus on applications in Fermentation industry
  - \* see www.kytos.be
- Bio-informatician
  - \* Organization of internal workshops for CMET
  - \* Teaching molecular microbial techniques
  - \* Bio-informatics support for CMET staff

- \* Data stewardship at CMET
- 2016-2018: Postdoctoral research fellow on microbial resource managment and synthetic microbial ecology

Funding: Belgian Science Policy IAP (BELSPO, P7/25), GOA Crohn (BOF17/GOA/032)

- Coordinating day-to-day management of inter-universitary attraction poles programme P7/25 "micro-manager: microbial resource management in engineered and natural ecosystems"
- Organization of internal workshops for the IUAP network and CMET
- Guidance of 5 PhD students and 2 masters of science students
- ARB/sILVA course "from primer to paper (P2P) (2016)"
- TT skills course (Ugent TTO): research valorization, IP, bridge funding etc.
- EBAME3: Workshop on Computational Microbial Ecogenomics (2017)
- 2011-2016: Doctoral thesis on sustainable methanotrophy

**Promotors**: prof. dr. ir. Nico Boon & Dr. Kim Heylen **Funding**: Ghent University GOA (BOF09/GOA/005) and Belgian Science Policy IAP (BELSPO, P7/25)

- Academic papers as first author (see bibliography below, Kerckhof *et al.* (2014) and 2 submitted)
- Many co-authorships as bio-informatics or statistical consultant (see bibliography below)
- Guided master thesis and internship students
- Teaching assistant in practical exercises molecular microbial techniques and microbial ecological processes.
- Organizing internal courses on statistics, bio-informatics and version control

#### • 2011-2016: Ghent university doctoral schools

- IVPV specialist course: Advanced statistical methods nonparametric methods
- IVPV specialist course: Advanced statistical methods multivariate methods
- FLAMES specialist course: Advanced R Programming in R and beyond
- Specialist course: UGent High Performance computing (Linux shell scripting, Python, HPC usage)
- Specialist course: Introduction to MG-RAST

# • 2006-2011: Msc. Bioscience engineering in cellular and genetic biotechnology, major computational biology at Ghent University.

- Bachelorpaper: 'Competition and diversity: apparent opposites?'. About (mathematic modelling of) ecological competition on both macro- and micro-ecological levels and possible applications (preemptive colonisation, pre- and pro-biotics).
- Combined project statistics for genome analysis and bio-informatics: analysis of 454-pyrosequencing amplicon data

- Masters thesis: 'The impact of the physical state of electron donors and acceptors on microbial phfysiology and morphology'. Fundamental research concerning microbial electron metabolism in bio-electrochemical systems (microbial fuel cells).
  Supervisors: dr. Jan B. Arends, prof. dr. ir. Willy Verstraete & prof. dr. ir. Nico Boon
- 2000-2006: Latin Mathematics, Onze-Lieve-Vrouwecollege Assebroek

## Teaching experience

#### Practical exercises

- 2011-2013 Practical exercises molecular microbial techniques (Msc Bioscience engineering)
- 2013-2015 Practical exercises microbial ecological processes (Bsc Bioscience engineering)

#### Theory classes

• 2016-2019 Co - teacher theory course molecular microbial techniques (Msc. Bioscience engineering)

#### Internal training

Training organized for all collaborators within CMET to enhance the quality of research of the group.

- Amplicon NGS analysis: basic training for all collaborators on use of linux command line, mothur and R.
- Statistics and experimental design: introduction to R, proper experimental design and one-way multiple comparisons.
- Version control: use of Git/GitHub for collaborative code editing.

#### Services

#### Internal services

- 2011-present: server managment of CMETs core computational infrastructure: setup of 3 linux servers, user and software managment
- 2014-2015: organization of internal research cluster meetings on NGS sequencing and microbial ecology and interactions.

- 2015: Benchmarking of amplicon sequencing pipelines using mock communities design of amplicon sequencing SOP.
- 2016: setup and mamangment of shiny application server, setup of Pathwaytools server

#### Skills

#### Dry lab

As a major in computational biology I sure know my way around computers, below are listed some of the specific software applications that I am familiar with.

- Advanced knowledge of R, bioconductor and many R packages for statistical analysis.
- The Mathworks Matlab and simulink for modelling and advanced mathematics.
- Perl/Bioperl & Python/Biopython for scripting
- ImageJ and comstat for bio-imaging.
- Advanced in mothur and knowledge of Qiime for amplicon NGS data analysis
- RAxML for phylogenetic tree building
- MG-RAST for metagenomics
- Basic knowledge of Bionumerics, DNAStar lasergenes, PROKKA, PathwayTools (Eco-Cyc/MetaCyc), CLC workbench, Wolfram Mathematica, Ruby, Java, HTML, php and Visual Basic.

#### Wet lab

I have familiarized myself with many molecular biology tools within the lab, so I am aware of possible biases when generating e.g. NGS data. Furthermore I have experience with (q)PCR primer design and optimization as well as flowcytometry.

#### Entrepreneurial skills

In gearing up towards the perspective spin-off company Kytos I took a few courses to make sure I would have the entrepreneurial skill-set to start a company.

- Participated in business competitions: Cleantech challenge 2012 and Batle of Talents 2010
- UGent TechTransfer TT-skills course: essentials of IP & funding
- UGent TechTransfer/Capture "disciplined entrepreneurship" course: semi-intensive program on getting from the idea to a start-up using the book "Disciplined entrepreneurship" by Bill Aulet

- Thriving business community BaLinCa+: 2 day financial awareness and business experience course
- (ongoing) VOKA/UGent "from PhD to SME"

## Online Presence

- LinkedIn
- $\bullet$  ResearchGate
- $\bullet$  ResearcherID
- ORCID
- Contributor to stack Exchange for (StackOverflow, CrossValidated, Ask Ubuntu, TeX)

## Academic publications and conference proceedings

- Allais, L., Kerckhof, F.-M., Verscheure, S., Bracke, K., De Smet, R., Laukens, D., De Vos, M., Boon, N., Brusselle, G., Van de Wiele, T. & Cuvelier, C. (2013a). Chronic cigarette smoke exposure alters the murine gut microbiome. In *Mucosal Immunology*, 16th International congress, Abstracts. Society for Mucosal Immunology.
- Allais, L., Kerckhof, F.-M., Verscheure, S., Bracke, K., De Smet, R., Laukens, D., Van den Abbeele, P., De Vos, M., Boon, N., Brusselle, G. et al. (2014a). The effect of chronic cigarette smoke exposure on gut microbial diversity in healthy mice. In 9th Joint symposium Rowett-INRA 2014: Gut microbiology: from sequence to function.
- Allais, L., Kerckhof, F.-M., Verscheure, S., Bracke, K., De Smet, R., Laukens, D., Van den Abbeele, P., De Vos, M., Boon, N., Brusselle, G. et al. (2014b). The effect of chronic cigarette smoke exposure on the gut microbiome in healthy mice. In BSM Annual meeting 2014: Cell signaling in host-microbe interactions. Belgian Society for Food Microbiology (BSFM).
- Allais, L., Kerckhof, F.-M., Verschuere, S., Bracke, K., De Smet, R., Laukens, D., De Vos, M., Boon, N., Brusselle, G., Van de Wiele, T. & Cuvelier, C. (2013b). Chronic cigarette smoke exposure alters the murine gut microbiome. In ACTA GASTRO-ENTEROLOGICA BELGICA, volume 76. ISSN 0001-5644.
- Allais, L., Kerckhof, F.-M., Verschuere, S., Bracke, K., De Smet, R., Laukens, D., De Vos, M., Boon, N., Brusselle, G., Van de Wiele, T. et al. (2013c). Chronic cigarette smoke exposure alters the murine gut microbiome. In 8th Congress of ECCO, pp. 167–167. European Crohn's and Colitis Organisation (ECCO).
- Allais, L., Kerckhof, F.-M., Verschuere, S., Bracke, K., De Smet, R., Laukens, D., Devos, M., Boon, N., Brusselle, G., Van de Wiele, T. et al. (2013d). P694 chronic cigarette smoke exposure alters the murine gut microbiome. *Journal of Crohn's and Colitis*, 7(Supplement 1):S289–S289.
- Allais, L., Kerckhof, F.-M., Verschuere, S., Bracke, K. R., De Smet, R., Laukens, D., Van den Abbeele, P., De Vos, M., Boon, N., Brusselle, G. G. et al. (2016). Chronic cigarette smoke exposure induces microbial and inflammatory shifts and mucin changes in the murine gut. Environmental microbiology, 18(5):1352–1363.
- Benner, J., De Smet, D., Ho, A., Kerckhof, F.-M., Vanhaecke, L., Heylen, K. & Boon, N. (2015). Exploring methane-oxidizing communities for the co-metabolic degradation of organic micropollutants. *Applied microbiology and biotechnology*, 99(8):3609–3618.
- Buysschaert, B., Kerckhof, F.-M., Vandamme, P., De Baets, B. & Boon, N. (2017). Flow cytometric fingerprinting for microbial strain discrimination and physiological characterization. *Cytometry Part A*.
- Buysschaert, B., Kerckhof, F.-M., Vandamme, P., De Baets, B. & Boon, N. (2018). Flow cytometric fingerprinting for microbial strain discrimination and physiological characterization. *Cytometry Part A*, 93(2):201–212.

- Callewaert, C., De Maeseneire, E., Kerckhof, F.-M., Verliefde, A., Van de Wiele, T. & Boon, N. (2014a). Microbial odor profile of polyester and cotton clothes after a fitness session. Applied and environmental microbiology, 80(21):6611–6619.
- Callewaert, C., Kerckhof, F.-M., Granitsiotis, M., Van Gele, M., Van de Wiele, T. & Boon, N. (2012a). The human axillary environment harbors 2 microbiome ecotypes. In 42nd Annual meeting of the European Society for Dermatological Research (ESDR), volume 132, pp. S115–S115.
- Callewaert, C., Kerckhof, F.-M., Granitsiotis, M., Van Gele, M., Van de Wiele, T. & Boon, N. (2012b). The human axillary environment harbors 2 microbiome ecotypes. In *Journal of investigative dermatology*, volume 132, pp. abstract 656:S115–abstract 656:S115. ISSN 0022-202X.
- Callewaert, C., Kerckhof, F.-M., Granitsiotis, M. S., Van Gele, M., Van de Wiele, T. & Boon, N. (2013). Characterization of staphylococcus and corynebacterium clusters in the human axillary region. *PloS one*, 8(8):e70538.
- Callewaert, C., Kerckhof, F.-M., Van de Wiele, T. & Boon, N. (2012c). The bacterial finger-print of the armpit and its variation in time. In 17th PhD Symposium on Applied Biological Sciences, volume 77.
- Callewaert, C., Kerckhof, F.-M., Van Gele, M., Van de Wiele, T. & Boon, N. (2012d). The human axillary environment harbors two microbiome ecotypes. In *Belgian Society for Cell and Developmental Biology (BSCDB) Fall meeting 2012: Epidermal cell biology.*
- Callewaert, C., Kerckhof, F.-M., Van Keer, T., Plaquet, T., Meunier, M., Bostoen, J., Verhofstadt, L., Van de Wiele, T. & Boon, N. (2014b). Characterisation of the human malodorous axillary microbiome and a novel treatment to obtain a better body odour. In 44th Annual meeting of the European Society for Dermatological Research (ESDR), volume 134, pp. S78–S78.
- Callewaert, C., Van Nevel, S., Kerckhof, F.-M., Granitsiotis, M. S. & Boon, N. (2015). Bacterial exchange in household washing machines. *Frontiers in microbiology*, 6:1381.
- Chalermwatanachai, T., Vilchez-Vargas, R., Holtappels, G., Lacoere, T., Jáuregui, R., Kerckhof, F.-M., Pieper, D. H., Wiele, T., Vaneechoutte, M., Zele, T. et al. (2018). Chronic rhinosinusitis with nasal polyps is characterized by dysbacteriosis of the nasal microbiota. Scientific reports, 8(1):7926.
- De Paepe, K., Kerckhof, F.-M., Verspreet, J., Courtin, C. M. & Van de Wiele, T. (2017). Inter-individual differences determine the outcome of wheat bran colonization by the human gut microbiome. *Environmental Microbiology*.
- De Ryck, T., Boterberg, T., Kerckhof, F., Schrijver, J., Bracke, M. et al. (2015). Effects of irradiation on epithelial wound healing and microbial diversity in an in-vitro oral mucosa model. J Nucl Med Radiat Ther, 6(218):2.
- De Ryck, T., Grootaert, C., Jaspaert, L., Kerckhof, F.-M., Van Gele, M., De Schrijver, J., Van den Abbeele, P., Swift, S., Bracke, M., Van de Wiele, T. et al. (2014). Development of an oral mucosa model to study host-microbiome interactions during wound healing. Applied microbiology and biotechnology, 98(15):6831–6846.

- De Schrijver, J., Volders, P.-J., Kerckhof, F.-M., Obbels, D., Verleyen, E., Vyverman, W., De Meyer, T. & Van Criekinge, W. (2011). Prokar-seq: An analysis and visualization framework for next-generation sequencing based quantification of prokaryotic communities. In 6th Benelux Bioinformatics Conference (BBC'11), pp. 47–47.
- Domingos, J. M., Martinez, G. A., Scoma, A., Fraraccio, S., Kerckhof, F.-M., Boon, N., Reis, M. A., Fava, F. & Bertin, L. (2016). Effect of operational parameters in the continuous anaerobic fermentation of cheese whey on titers, yields, productivities, and microbial community structures. ACS Sustainable Chemistry & Engineering, 5(2):1400–1407.
- Ehsani, E., Hernandez Sanabria, E., Kerckhof, F.-M., Props, R., Vilchez Vargas, R., Vital, M., H Pieper, D. & Boon, N. (2017). Initial evenness determines temporal dynamics in synthetic microbial ecosystem. In *MRM2 conference*.
- Ehsani, E., Hernandez-Sanabria, E., Kerckhof, F.-M., Props, R., Vilchez-Vargas, R., Vital, M., Pieper, D. H. & Boon, N. (2018). Initial evenness determines diversity and cell density dynamics in synthetic microbial ecosystems. *Scientific reports*, 8(1):340.
- Garcia Timermans, C., Buysschaert, B., Kerckhof, F.-M., Rubbens, P., Skirtach, A. & Boon, N. (2017). Detecting phenotypes with raman spectroscopy. In *FT-IR Workshop*.
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- Ho, A., Kerckhof, F.-M., Luke, C., Reim, A., Krause, S., Boon, N. & Bodelier, P. L. (2013). Conceptualizing functional traits and ecological characteristics of methane-oxidizing bacteria as life strategies. *Environmental microbiology reports*, 5(3):335–345.
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- Kerckhof, F.-M., Courtens, E. N., Geirnaert, A., Hoefman, S., Ho, A., Vilchez-Vargas, R., Pieper, D. H., Jauregui, R., Vlaeminck, S. E., Van de Wiele, T. et al. (2014). Optimized cryopreservation of mixed microbial communities for conserved functionality and diversity. PloS one, 9(6):e99517.

- Kerckhof, F.-M., De Rudder, C., Tsilia, V., Props, R., Ho, A., Heylen, K. & Boon, N. (2016a). Functional stabilisation and partner selection during repeated co-culivation in a methanotrophic interactome. Technical report, PeerJ Preprints.
- Kerckhof, F.-M., Ho, A., De Rudder, C., Heyer, R., Benndorf, D., Heylen, K. & Boon, N. (2016b). Happily ever after? how repeated subcultivation influences a methanotrophic marriage. In *Nederlands Tijdschrift voor Medische Microbiologie*, volume 24. ISSN 0929-0176.
- Kerckhof, F.-M., Ho, A., Granitsiotis, M. S., Heylen, K. & Boon, N. (2015a). Microbial inter-dependencies in an enriched aerobic mixed methanotrophic community. In 6th Congress of European Microbiologists (FEMS 2015), p. 2717. Kenes International Organizers of Congresses.
- Kerckhof, F.-M., Vekeman, B., Geirnaert, A., Courtens, E. N., Vilchez-Vargas, R., Ho, A., Heyle, K. & Boon, N. (2015b). Enhancing microbial cryopreservation: From fastidious microbes to mixed communities. *Cryobiology*, 71(3):549–550.
- Kuuliala, L., Al Hage, Y., Ioannidis, A.-G., Sader, M., Kerckhof, F.-M., Vanderroost, M., Boon, N., De Baets, B., De Meulenaer, B., Ragaert, P. et al. (2018). Microbiological, chemical and sensory spoilage analysis of raw atlantic cod (gadus morhua) stored under modified atmospheres. Food microbiology, 70:232–244.
- Marzorati, M., Maignien, L., Verhelst, A., Luta, G., Sinnott, R., Kerckhof, F. M., Boon, N., Van de Wiele, T. & Possemiers, S. (2013). Barcoded pyrosequencing analysis of the microbial community in a simulator of the human gastrointestinal tract showed a colon region-specific microbiota modulation for two plant-derived polysaccharide blends. *Antonie Van Leeuwenhoek*, 103(2):409–420.
- Maza-Márquez, P., Vilchez-Vargas, R., Kerckhof, F.-M., Aranda, E., González-López, J. & Rodelas, B. (2016). Community structure, population dynamics and diversity of fungi in a full-scale membrane bioreactor (mbr) for urban wastewater treatment. *Water Research*, 105:507–519.
- Mysara, M., Vandamme, P., Props, R., Kerckhof, F.-M., Leys, N., Boon, N., Raes, J. & Monsieurs, P. (2017). Reconciliation between operational taxonomic units and species boundaries. *FEMS Microbiology Ecology*, 93(4).
- Props, R., Kerckhof, F.-M., Rubbens, P., De Vrieze, J., Sanabria, E. H., Waegeman, W., Monsieurs, P., Hammes, F. & Boon, N. (2017). Absolute quantification of microbial taxon abundances. *The ISME journal*, 11(2):584.
- Scoma, A., Coma, M., Kerckhof, F.-M., Boon, N. & Rabaey, K. (2017). Efficient molasses fermentation under high salinity by inocula of marine and terrestrial origin. *Biotechnology* for *Biofuels*, 10(1):23.
- Scoma, A., Rifai, R. M., Pini, E., Hernandez Sanabria, E., Kerckhof, F.-M. & Boon, N. (2015). Long-chain hydrocarbon degraders from deep-sea. In *VLIZ Young Marine Scientists' Day* 2015, volume 71, pp. 115–115. Vlaams Instituut voor de Zee (VLIZ).

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- Seuntjens, D., Han, M., Kerckhof, F.-M., Boon, N., Al-Omari, A., Takacs, I., Meerburg, F., De Mulder, C., Wett, B., Bott, C. et al. (2018). Pinpointing wastewater and process parameters controlling the aob to nob activity ratio in sewage treatment plants. Water research, 138:37–46.
- Stock, M., Hoefman, S., Kerckhof, F., Boon, N., De Vos, P., Heylen, K., De Baets, B. & Waegeman, W. (2012). A kernel-based model to predict interaction between methanotrophic and heterotrophic bacteria. *Communications in agricultural and applied biological* sciences, 78(1):55–60.
- Stock, M., Hoefman, S., Kerckhof, F.-M., Boon, N., De Vos, P., De Baets, B., Heylen, K. & Waegeman, W. (2013). Exploration and prediction of interactions between methanotrophs and heterotrophs. *Research in microbiology*, 164(10):1045–1054.
- Tsilia, V., Devos, S., Rajkovic, A., Van de Wiele, T., Heyndrickx, M., Kerckhof, F.-M. & Devreese, B. (2016a). To poison or not?: a proteomic approach to quantify enterotoxins produced from bacillus cereus. In *Symposium on Advances and Applications in Metaproteomics*. Max Planck Institute.
- Tsilia, V., Kerckhof, F.-M., Rajkovic, A., Heyndrickx, M. & Van de Wiele, T. (2016b). Bacillus cereus nvh 0500/00 can adhere to mucin but cannot produce enterotoxins during gastrointestinal simulation. *Applied and environmental microbiology*, 82(1):289–296.
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