



Curriculum Vitae

Personal information **Mattias Van Heetvelde**

Work experience

April 2020 - present: Postdoctoral researcher at Ghent University (Department of Biomolecular Medicine, eye and developmental genetics lab), Belgium

Senior bioinformatician and postdoctoral researcher. My main focus is the development and implementation of pipelines for high-throughput omics data processing, analysis, and integration. Furthermore, I am involved in grant writing/reviewing and providing support with experimental design, data analyses and data management for several projects, including guidance of the PhD candidates who work on these projects.

June 2019 - April 2020: Postdoctoral researcher at Ghent University (Department of Biomolecular Medicine, lab for cancer predisposition and precision oncology), Belgium

I was briefly employed as a junior postdoctoral researcher in the lab for cancer predisposition and precision oncology to finish up some of the work I did as a PhD candidate (see 'Education and Training') and to hand over to my successor.

Education and training

October 2013 - June 2019: PhD - Ghent University (Department of Biomolecular Medicine, lab for cancer predisposition and precision oncology), Belgium

I did my PhD on small non-coding RNAs and their potential for synthetic lethality in patients with BRCA1- and BRCA2-associated breast and ovarian cancer. This work included extensive wet and dry lab work, including molecular techniques and bioinformatics.

September 2011 - September 2013: MSc in Bioscience engineering: Cell and Gene Biotechnology - Ghent University (Faculty of Bioscience engineering), Belgium

In my masters I specialised by focusing my curriculum on (medical) biotechnology, bioinformatics, human molecular genetics of rare diseases, and cancer biology.

September 2007 - June 2011: BSc in Bioscience engineering - University of Antwerp (Faculty of Sciences), Belgium

In this academic bachelor, I obtained broad but thorough knowledge of (bio)chemistry, mathematics, (molecular/cell) biology, physics, economics, and biotechnology.

Additional information

Publications

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Van Vooren E, Van Den Broeck F, **Mahieu Q**, **Geens E**, **Van Heetvelde M**, **De Bruyne M**, **Van de Sompele S**, Uppal S, Poliakov E, Dhaenens CM, Gregory-Evans CY, Hoefsloot L, Gonzalez AI, Kohl S, Zuleger T, Demaret T, Tuupanen S, Ruys J, Van Os L, Platteau E, Jacob J, Vermeer S, Postelmans L, Dahan K, Maystadt I, Rasquin F, Thiadens AAHJ, Stephenson KAJ, Sheri N, Smirnov V, MacDonald IM, Gregory-Evans K, Redmond TM, De Zaeytijd J, Leroy BP, **Bauwens M**, **De Baere E**; Dominant RPE65-p.(E519K) Consortium. RPE65 Variant p.(E519K) Causes a Novel Dominant Adult-Onset Maculopathy in 83 Affected Individuals. *Invest Ophthalmol Vis Sci.* 2025 Sep 2;66(12):53. doi: 10.1167/iovs.66.12.53.

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Hits in BRCA1 and BRCA2-Associated Hereditary Breast and Ovarian Cancer Reveals Multiple Co-Acting Second Hits. *Cancer Lett.* 2018 Jun 1;425:125-133. doi: 10.1016/j.canlet.2018.03.026. PMID: 29578053.

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Projects

Memberships

Member of the European Society of Cardiology Patient Forum. As such, I have presented at the following scientific conferences and meetings:

2026 Feb - Advancing Prevention and Equity through AI and Digital Transformation: The Impact of EU and National Cardiovascular Health Plans

2026 Jan - Cardiovascular Round Table Amsterdam: Cardiovascular Safety at the Heart of Cancer Care

2025 Dec - EACH Cardiovascular Health Summit

2025 Oct - AI Patient Crew Pilot

2025 Aug - ESC Annual Congress Madrid: - title: "Therapeutic advances in cardiometabolic HFpEF: pharmacotherapy and lifestyle intervention - patient perspective"

2025 March - ESC Spring Summit: Digital Cardiology - the future is here - title: "The Transformative Role of AI in Cardiology - Patient Perspective"

2025 Feb - Cardiovascular Round Table Amsterdam: Unmet Medical Needs focusing on patient-benefit risk and patient-reported outcomes - title: "Patient perspectives of using PED/PROs as primary versus supportive endpoints in the approval of new drugs and devices"

2024 August - ESC Annual Congress London: - title: "Psychosocial needs for patients after discharge"

2024 February - Cardiovascular Round Table Rome: The Revolution In Pharmacotherapy: From Herbs To Pills To Antibodies And Nucleic Acids - title: "Patient's perspectives on nucleic acid therapy"

2023 November - Cardiovascular Round Table Amsterdam: Unmet Medical Needs - title: "Patient's role in the assessment of risk-benefit in drug development – innovative cardiovascular drugs how much uncertainty is acceptable?"

And I have been a discussant in the following session:

2023 August - ESC Annual Congress Amsterdam: - title: "Heart Team: threats and opportunities"

Other Relevant Information I am a patient representative