Personal details

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Hard skills

9 / 10
Lab skills

9 / 10
MS Office

7/10
R statistical software

Soft skills

Writing papers

Project management

Dutch (mother tongue)

English (fluently)

Team player

Flexibility

Supervising others

Charlotte Cosemans

Education

Doctor in Science – Biology **2017 – 2022**
Hasselt University
Molecular Epidemiology

Master in Biomedical Sciences (*cum laude*) **2013 – 2016**
Hasselt University
Clinical Molecular Sciences

Bachelor in Biotechnology **2010 - 2013**
Provinciale Hogeschool Limburg
Cell and Gene Technology

Employment

PhD student **Oct 2017 – Mar 2022**
Centre for Environmental Sciences – Hasselt University
The role of the exposome on molecular biomarkers: focus on mitochondria and telomeres in different stages of life

Researcher **Aug 2016 – Aug 2017**
Limburg Clinical Research Program – Hasselt University
Multiple Myeloma Project at Jessa Hospital

Publications

Under review **Expected 2022**
In utero exposure to air pollutants and mitochondrial heteroplasmy in neonates.
Cosemans C, Wang C, Vanpoucke C, Smeets K, Nawrot TS, Plusquin M.

Under review **Expected 2022**
In utero particulate matter exposure in association with newborn mitochondrial ND4L$_{10550A>G}$ heteroplasmy and its role in overweight during early childhood
Cosemans C, Wang C, Alfano R, Martens DS, Sleurs H, Dockx Y, Vanbrabant K, Janssen BG, Vanpoucke C, Lefebvre W, Smeets K, Nawrot TS, Plusquin M.

Cancers **2022**
The dynamics of nucleotide variants in the progression from low-intermediate myeloma precursor conditions to multiple myeloma: studying serial samples with a targeted sequencing approach
Oben B, Cosemans C, Geerdens E, Linsen L, Vanhees K, Maes B, Theunissen K, Cruys B, Lionetti M, Arijs I, Bolli N, Froyen G, Rummens JL

International Journal of Hygiene and Environmental Health **2021**
Glyphosate and AMPA exposure in relation to markers of biological aging in an adult population-based study
Cosemans C, Van Larebeke N, Janssen BG, Martens DS, Baeyens W, Bruckers L, Den Hond E, Coertjens D, Nelen V, Schoeters G, Hoppe HW, Wolfs E, Smeets K, Nawrot TS, Plusquin M

Environment International **2021**
In utero exposure to parabens and evidence of obesogenic effects – The association between placental ethyl paraben and cord blood metabolic biomarkers

Reimann B, Vrijens K, Roels HA, Wang C, Cosemans C, Van Overmeire I, Nawrot TS, Plusquin M

BMC Medicine **2021**
Lower iodine storage in the placenta is associated with gestational diabetes mellitus
Neven KY, Cox B, Cosemans C, Gyselaers W, Penders J, Plusquin M, Roels HA, Vrijens K, Ruttens A, Nawrot TS

Scientific Reports **2020**
Breastfeeding predicts blood mitochondrial DNA content in adolescents
Cosemans C, Nawrot TS, Janssen BG, Vriens A, Smeets K, Baeyens W, Bruckers L, Den Hond E, Loots I, Nelen V, Van Larebeke N, Schoeters G, Martens DS, Plusquin M

Biopreservation and Biobanking **2018**
Archival May-Grunwald-Giemsa-stained bone marrow smears are an eligible source for molecular DNA research
Oben B, Cosemans C, Arijs I, Linsen L, Daniëls A, Declercq J, Maes B, Vanhees K, Froyen G, Rummens JL

Clinical Lymphoma, Myeloma and Leukemia **2018**
Prognostic biomarkers in the progression from MGUS to Multiple Myeloma: a systematic review
Cosemans C, Oben B, Arijs I, Daniëls A, Declercq J, Vanhees K, Froyen G, Maes B, Mebis J, Rummens JL

Conferences

ISES annual conference **Virtual, 2021**
Poster Presentation
Glyphosate and AMPA exposure in relation to markers of biological aging in an adult population-based study

ISEE annual conference **Utrecht, 2019**
Poster Presentation
Breastfeeding predicts blood mitochondrial DNA content in adolescents

LCRP Symposium – mHealth: Visions on the Future **Hasselt, 2017**
Poster Presentation
Predictive biomarkers in the progression from MGUS to multiple myeloma

tUL Life Sciences Research Day **Bilzen, 2016**
Poster Presentation
The search for epigenetic biomarkers for MGUS to predict multiple myeloma progression

MOSA annual conference **Maastricht, 2016**
Poster Presentation
Planarians activate their regenerative power to circumvent carcinogenesis: an *in vivo* and *in vitro* approach to investigate the role of stem cell potency