

Johannes Schroth

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EDUCATION

PhD Candidate William Harvey Research Institute, Queen Mary University of London.	2019 – Present
BSc Medical Genetics (Hons) First class honours. Queen Mary University of London.	2016 – 2019

PROFESSIONAL EXPERIENCE

Postgraduate Research Committee Member William Harvey Research Institute, Queen Mary University of London	Apr 2021 – Present
PhD Representative London Immunology Group , British Society for Immunology	Jan 2021 – Present
Scientific Consultant Adelphi Real World (Part-time)	Dec 2020 – Present
Undergraduate Research Project William Harvey Research Institute, Queen Mary University of London	Jun 2018 – Mar 2019
HIV Ward Volunteer Mildmay Mission Hospital	Mar 2018 – Dec 2018
Undergraduate Student Internship William Harvey Research Institute, Queen Mary University of London	Summer 2017

PRESENTATIONS

The metabolic basis of postoperative T cell immune-suppression <ul style="list-style-type: none"><i>British Society of Immunology UK immunometabolism meeting 2022</i>, Newcastle, UK	2022-05-24
GATA3 promotes survival in CD4 T cells during DNA damage <ul style="list-style-type: none"><i>William Harvey Research Institute PhD Symposium</i>, London, UK<i>William Harvey Research Institute Work in Progress Meeting</i>, London, UK	2022-01-17 2021-07-23

POSTERS

The metabolic basis of postoperative T cell immune-suppression

- William Harvey Research Institute Annual Review, London, UK

2022-06-27

GATA3 induces mitochondrial biogenesis in primary human T cells during DNA damage

- British Society of Immunology Congress 2021, Edinburgh, Scotland
- William Harvey Research Institute PhD Symposium, London, UK

2021-11-29

2020-01-15

SOFTWARE APPLICATIONS

CytoDA (R, ShinyApp)

Explore high-dimensional cytometry data using dimensionality reduction and clustering techniques.

CytoSonify (R, ShinyApp)

Create abstract sounds from cytometry data (collaboration with artist [Johanna Byström Sims](#)).

PUBLICATIONS

PEER REVIEWED ARTICLES

1. [The Expression of Active CD11b Monocytes in Blood and Disease Progression in Amyotrophic Lateral Sclerosis.](#)
Yildiz O, **Schroth J**, Lombardi V, Pucino V, Bobeva Y, Yip PK, Schmierer K, Mauro C, Tree T, Henson SM, Malaspina A.
International Journal of Molecular Sciences, 2022.
2. [Altered nutrient uptake causes mitochondrial dysfunction in senescent CD8⁺ EMRA T cells during type 2 diabetes.](#)
Callender LA, Carroll EC, Ketchley CG, **Schroth J**, Bystrom J, Berryman V, Pattrick M, Richards DC, Hood GA, Hitman GA, Finer S, Henson SM.
Frontiers in Aging, 2021.
3. [GATA3 induces mitochondrial biogenesis in primary human CD4⁺ T cells during DNA damage.](#)
Callender LA*, **Schroth J***, Carroll EC, Romano LEL, Hendy E, Kelly A, Lavender P, Akbar AN, Chapple JP, Henson SM.
Nature Communications, 2021.
4. [Preoperative lymphopenia, mortality, and morbidity after elective surgery: systematic review and meta-analysis.](#)
Schroth J*, Weber V*, Jones TF, Del Arroyo AG, Henson SM, Ackland GL.
British Journal of Anaesthesia, 2021.
5. [Mitochondrial dysfunction accelerates ageing.](#)
Schroth J, Henson SM.
Immunometabolism, 2020.

6. [Senescence and the aging immune system as major drivers of chronic kidney disease.](#)
Schroth J, Thiernemann C and Henson SM.
Frontiers in Cell and Developmental Biology, 2020.

ARTICLES IN PREPARATION

1. Senescent blood lymphocytes and disease progression in amyotrophic lateral sclerosis.
Yildiz O, **Schroth J**, Tree T, Turner MR, Shaw PJ, Henson SM, Malaspina A.

(Asterisk denotes coauthors)