

# Johannes Schroth

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## EDUCATION

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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

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

## PRESENTATIONS

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The metabolic basis of postoperative T cell immune suppression	
• <i>British Society of Immunology Congress 2022</i> , Liverpool, UK	2022-12-08
• <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	
• <i>PhD Symposium</i> , William Harvey Research Institute, Queen Mary University of London	2022-01-17
• <i>Work in Progress Meeting</i> , William Harvey Research Institute, Queen Mary University of London	2021-07-23

## POSTERS

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- 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 2021-11-29
  - *PhD Symposium*, William Harvey Research Institute, Queen Mary University of London 2020-01-15

## SOFTWARE APPLICATIONS

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- 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

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### PEER REVIEWED ARTICLES

1. [Senescent-like blood lymphocytes and disease progression in amyotrophic lateral sclerosis](#). Yildiz O, [Schroth J](#), Tree T, Turner MR, Shaw PJ, Henson SM, Malaspina A. *Neurology Neuroimmunology & Neuroinflammation*, 2022
2. [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*, 2021.
3. [Altered nutrient uptake causes mitochondrial dysfunction in senescent CD8<sup>+</sup> EMRA T cells during type 2 diabetes](#). Callender LA, Carroll EC, Ketchley CG, [Schroth J](#), Bystrom J, Berryman V, Patrick M, Richards DC, Hood GA, Hitman GA, Finer S, Henson SM. *Frontiers in Aging*, 2021.
4. [GATA3 induces mitochondrial biogenesis in primary human CD4<sup>+</sup> 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.
5. [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.

## PUBLICATIONS CONT.

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6. [Mitochondrial dysfunction accelerates ageing.](#)  
**Schroth J**, Henson SM.  
*Immunometabolism*, 2020.
7. [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.

(Asterisk denotes coauthors)