

# Johannes Schroth

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[johannesschroth.github.io](https://johannesschroth.github.io)

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## EDUCATION

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

## PROFESSIONAL EXPERIENCE

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

## PRESENTATIONS

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GATA3 promotes survival in CD4 T cells during DNA damage	
• <i>PhD Symposium</i> ,	2022-01-17
William Harvey Research Institute, Queen Mary University of London	
• <i>Work in Progress Meeting</i> ,	2021-07-23
William Harvey Research Institute, Queen Mary University of London	

## POSTERS

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GATA3 induces mitochondrial biogenesis in primary human T cells during DNA damage	
• <i>British Society of Immunology Congress 2021</i> ,	2021-11-29
Edinburgh, Scotland	
• <i>PhD Symposium</i> ,	2020-01-15
William Harvey Research Institute, Queen Mary University of London	

## 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. [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, Pattick M, Richards DC, Hood GA, Hitman GA, Finer S, Henson SM.  
*Frontiers in Aging*, 2021.
2. [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.
3. [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.
4. [Mitochondrial dysfunction accelerates ageing.](#)  
**Schroth J**, Henson SM.  
*Immunometabolism*, 2020.
5. [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.
2. Beta2-integrin (CD11b)-expressing monocytes and disease progression in amyotrophic lateral sclerosis.  
Yildiz O, **Schroth J**, Lombardi V, Pucino V, Bobeva Y, Schmierer K, Mauro C, Tree T, Henson SM, Malaspina A.

(Asterisk denotes coauthors)