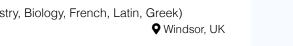
# JAMES CRANLEY

BM BCh, MA, MRCP

**EDUCATION** 

I am an academic cardiology trainee. My clinical interest lies at the intersection of inherited cardiac conditions and electrophysiology. I am currently pursuing a PhD fellowship at the Sanger Institute in the lab of Dr Sarah Teichmann<sup>1</sup>, using using cuttingedge single-cell and spatial transcriptomic methods to create a next-generation cell atlas of the human heart2.

#### Sanger Institute (Cambridge University) 2024 Cambridge, UK PhD at Teichmann Lab 2021 **Cambridge University** 2019 Cambridge, UK PG Certificate in Medical Education **Academic Clinical Fellowship in Cardiology** 2018 National Institue for Health Research (NIHR) 2015 3 month research fellowships in: • Huang Lab<sup>3</sup>, Cambridge Unversity MacRae Lab<sup>4</sup>, Harvard Unversity • Munroe Lab<sup>5</sup>, Queen Mary University of London Membership of the Royal College of Physicians 2016 **Q** London, UK Royal College of Physicians Oxford Medical School 2013 Oxford, UK BM BCh (Distinction) 2007 Intercalated BA in Medical Science (1st class) Academic ("Old Members") scholarship **Eton College** 2007 Academic ("Oppidan") scholarship 2002 7 'A's (Maths, Further Maths, Chemistry, Biology, French, Latin, Greek)



# RESEARCH EXPERIENCE

2024 2021

## **Wellcome Trust PhD Fellowship**

Single cell and spatial transcriptomic analysis of the adult and developing human heart. 50% wet lab genomics (single-cell and spatial transcriptomics), 50% bioinformatics (python, Bash, R). Supervisor: Dr Sarah Teichmann FMedsci FRS



View this CV online with links at here

## CONTACT

- jamescranley
- james-cranley
- fames-cranley.github.io
- in james-cranley

#### **CONTENTS**

Education Research Experience Clinical Experience Teaching Experience **Publications** Posters and Presentations Awards and Qualifications

### PERSONAL DETAILS

Born: 1989 Nationality: British Contact me for details & referees

Last updated on 2022-12-27.

#### **NIHR Academic Clinical Fellowship**

- 2018: Genome-wide association study into ECG trait using UK Biobank data. Supervisor: Prof Patsy Munroe/QMUL.
- 2017: Introduction to zebrafish as a model for cardiovascular disease. Supervisor: Prof Calum MacRae/Harvard University
- 2016: A murine model of metabolic syndrome. Supervisor: Prof Chris Huang/Cambridge University.

2018 - 2016

## 2013 • Bachelor's of Science (intercalated)

Investigating the role of the neuropeptide Galanin in cardiac autonomics using a guinea pig Langendorff model. Supervisor: Prof Neil Herring/Oxford University

# **B** CLINICAL EXPERIENCE

current | 2017

### **Specialty Training, Cardiology**

◆ East of England deanery

- ST6: Royal Papworth Hospital
- ST5: Norfolk & Norwich Hospital
- ST3 & ST4: Addenbrooke's Hospital

2017 | 2015

#### **Core Medical Training**

• East of England deanery

- Papworth Hospital: Cardiology
- Hinchingbrooke Hospital: Respiratory
- Addenbrooke's Hospital: ICU

2015 | 2013

#### **Foundation Training**

North West Thames deanery

- Harefield Hospital: Cardiology
- Hillingdon Hospital: A&E
- Charing Cross Hospital: Acute Medicine

2013

## **Medical Elective**

- Mount Sinai Hospital, New York
- Cardiology Dept, Mount Sinai Hospital. Supervisor: Dr Valentin Fuster<sup>6</sup>

# **TEACHING EXPERIENCE**

current | 2022

## **BJCA Trainee Representative to BHRS**

Committe role representing electrophysiology trainees nationally.

current | 2020

#### **Adult Life Support Instructor**

Registered provider and instructor

2021

#### **Cardiology Webinars**

Organised and recorded a series of educational webinars for cardiology trainees, now hosted at BJCA.tv

2020 | 2017

#### Trainee Representative for East of England

Designed and delivered training days, created website.

2017

2015

2014

## Preclinical (physiology) and clinical supervisor

Gonville & Caius College, Cambridge

Harefield Medical Student Teaching Programme

Organised a fortnightly schedule for rotating medical students. Taught regularly.

2015 • EC

#### **ECG Course - Oxford Revision Courses**

Oxford Medical School

# PUBLICATIONS

2022

# A single-cell comparison of adult and fetal human epicardium defines the age-associated changes in epicardial activity

Nature Cardiovascular Research

Vincent R. Knight-Schrijver, Hongorzul Davaapil, Semih Bayraktar, Alexander D. B. Ross, Kazumasa Kanemaru, **James Cranley**, Monika Dabrowska, Minal Patel, Krzysztof Polanski, Xiaoling He, Ludovic Vallier, Sarah Teichmann, Laure Gambardella, Sanjay Sinha

2022

#### Single-cell transcriptomics for the assessment of cardiac disease

Nature Reviews Cardiology

Antonio M. A. Miranda, Vaibhao Janbandhu, Henrike Maatz, Kazumasa Kanemaru, **James Cranley**, Sarah A. Teichmann, Norbert Hübner, Michael D. Schneider, Richard P. Harvey, Michela Noseda

2022

# Pathogenic variants damage cell composition and single cell transcription in cardiomyopathies

#### Science

Daniel Reichart, Eric L. Lindberg, Henrike Maatz, Antonio M. A. Miranda, Anissa Viveiros, Nikolay Shvetsov, Anna Gärtner, Emily R. Nadelmann, Michael Lee, Kazumasa Kanemaru, Jorge Ruiz-Orera, Viktoria Strohmenger, Daniel M. DeLaughter, Giannino Patone, Hao Zhang, Andrew Woehler, Christoph Lippert, Yuri Kim, Eleonora Adami, Joshua M. Gorham, Sam N. Barnett, Kemar Brown, Rachel J. Buchan, Rasheda A. Chowdhury, Chrystalla Constantinou, **James Cranley**, Leanne E. Felkin, Henrik Fox, Ahla Ghauri, Jan Gummert, Masatoshi Kanda, Ruoyan Li, Lukas Mach, Barbara McDonough, Sara Samari, Farnoush Shahriaran, Clarence Yapp, Caroline Stanasiuk, Pantazis I. Theotokis, Fabian J. Theis, Antoon van den Bogaerdt, Hiroko Wakimoto, James S. Ware, Catherine L. Worth, Paul J. R. Barton, Young-Ae Lee, Sarah A. Teichmann, Hendrik Milting, Michela Noseda, Gavin Y. Oudit, Matthias Heinig, Jonathan G. Seidman, Norbert Hubner, Christine E. Seidman

2022

Impact of COVID-19 pandemic on cardiac rhythm management services: Views from the United Kingdom.

#### Heart rhythm O2

Wern Yew Ding, **James Cranley**, David Begley, Archana Rao, Richard L. Snowdon, Greg Mellor, Dhiraj Gupta

2021

Identifying predictive risk factors for permanent pacemaker implantation up to 30 days post-TAVI

#### European Heart Journal

J Li, A Christodoulidou, **James Cranley**, F Ara, Charis Costopoulos, P Costanzo, M Osullivan, W Davies, C Densem, C A Martin

2020

Multi-ancestry GWAS of the electrocardiographic PR interval identifies 202 loci underlying cardiac conduction.

#### Nature communications

Ioanna Ntalla, Lu-Chen Weng, James H. Cartwright, Amelia Weber Hall, Gardar Sveinbjornsson, Nathan R. Tucker, Seung Hoan Choi, Mark D. Chaffin, Carolina Roselli, Michael R. Barnes, Borbala Mifsud, Helen R. Warren, Caroline Hayward, Jonathan Marten, **James Cranley**, Pier D. Lambiase, Michele Orini, Julia Ramirez, Stefan Van Duijvenboden, David O. Arnar, Daniel F. Gudbjartsson, Hilma Holm, Patrick Sulem, Gudmar Thorleifsson, Rosa B. Thorolfsdottir, Unnur Thorsteinsdottir, Emelia J. Benjamin, Andrew Tinker, Kari Stefansson, Patrick T. Ellinor, Yalda Jamshidi, Steven A. Lubitz, Patricia B. Murroe

2020

Pulsed Levosimendan in advanced heart failure due to congenital heart disease: a case series.

European heart journal. Case reports

James Cranley, Antonia Hardiman, Leisa J Freeman

Clinical outcomes of bioresorbable vascular scaffolds implanted 2019 with routine versus selective optical coherence tomography guidance: results from a single-centre experience. EuroIntervention Vincent Floré, Adam J. Brown, Joel P. Giblett, Kevin Liou, James Cranley, Stephen P. Hoole, Nick E.J. West Catastrophic antiphospholipid syndrome causing ST-segment 2019 elevation myocardial infarction with non-obstructive coronary arteries. BMJ case reports James Cranley, Unni Krishnan, Katharine Tweed, Rudolf Martin Duehmke Regulatory and occupational considerations in cardiology 2018 Medicine James Cranley, Catriona Bhagra Ventricular pro-arrhythmic phenotype, arrhythmic substrate, ageing 2018 and mitochondrial dysfunction in peroxisome proliferator activated receptor-y coactivator-1β deficient (Pgc-1β-) murine hearts. Mechanisms of ageing and development Shiraz Ahmad, Haseeb Valli, Karan R. Chadda, James Cranley, Kamalan Jeevaratnam, Christopher L.-H. Huang A New Approach to an Old Problem: One Brave Idea. 2018 Circulation research James Cranley, Calum A. MacRae TCT-405 Optical coherence tomography-guided optimal 2016 bioresorbable vascular scaffold implantation informs subsequent implantation without intravascular imaging: further evidence for a 'learning curve'? Journal of the American College of Cardiology Vincent Floré, Adam Brown, James Cranley, Joel Giblett, Stephen Hoole, Nick West Haemodynamic lesion significance is associated with high plaque 2016 burden but not with vulnerable plaque composition Journal of the American College of Cardiology

Adam J. Brown, Unni Krishnan, Joel Giblett, **James Cranley**, Martin Bennett, Nicholas West, Stephen Hoole

Hypertension (Book Chapter)

Clinical Guide to Cardiology

James Cranley

2016

2013 • Long-term follow-up of patients undergoing free tissue transfer to the lower limb following trauma

European Journal of Plastic Surgery

Dipender Gill, David J. Bruce, Mark J. Ponsford, **James Cranley**, Timothy E. Goodacre

The cardiac sympathetic co-transmitter galanin reduces acetylcholine release and vagal bradycardia: implications for neural control of cardiac excitability.

Journal of molecular and cellular cardiology

Neil Herring, **James Cranley**, Michael N. Lokale, Dan Li, Julia Shanks, Eric N. Alston, Beatrice M. Girard, Emma Carter, Rodney L. Parsons, Beth A. Habecker, David J. Paterson

 Galanin reduces cardiac vagal acetylcholine release and bradycardia via a GalR1, protein kinase C dependent pathway

The FASEB Journal

Neil Herring, **James Cranley**, Michael N Lokale, Beth Habecker, David J Paterson



2010

2019

May. 2019

- 1. http://www.teichlab.org/
- 2. https://www.heartcellatlas.org/
- 3. https://crukcambridgecentre.org.uk/users/clh1113207
- 4. https://hsci.harvard.edu/people/calum-macrae-md-phd
- 5. https://www.qmul.ac.uk/whri/people/academic-staff/items/munroepatricia.html
- 6. https://profiles.mountsinai.org/valentin-fuster

# PRESENTATIONS AND POSTERS

Jun. 2022 • British Heart Foundation Symposium

Dec • International Conference of Genomics

'KCNQ1 variants and JLNS, genotype-phenotype correlations' York, UK

Oct. 2019 • Heart Rhythm Congress

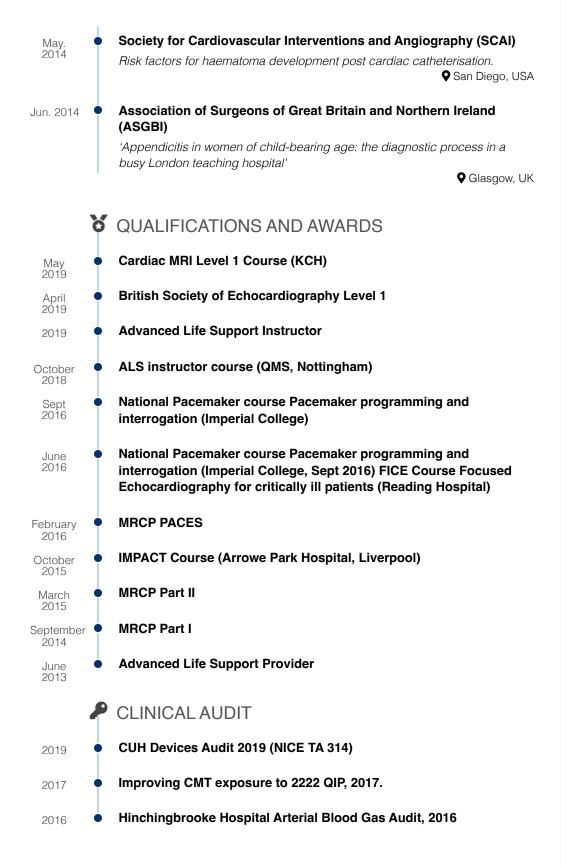
'A novel variant causing JLNS, but not LQT1' 

Birmingham, UK

British Society of Cardiac Imaging

'Localised effusive-constrictive pericarditis - a late complication of PCI'

Cambridge, UK



- Harefield Hospital Haematoma post Cardiac Catheterisation Audit,
   2014.
- 2014 Charing Cross Acute Mastitis Pathway, 2014.
- 2013 Short & Medium term complications post implanted devices, John Radcliffe Hospital, Oxford, 2012/3.