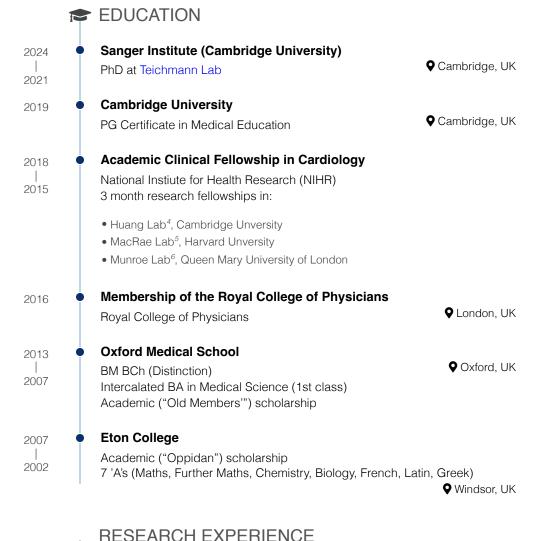
## **JAMES CRANLEY**

BM BCh, MA, MRCP

I am an **academic cardiology trainee**. My clinical interest lies at the intersect of **inherited cardiac conditions** and **electrophysiology**. I am currently pursuing a PhD fellowship at the Sanger Institute<sup>1</sup> in the lab of Dr Sarah Teichmann<sup>2</sup>. I am using cutting edge **single-cell and spatial transcriptomic** methods to create a next-generation cell atlas of the human heart<sup>3</sup>.





View this CV online with links at here

### CONTACT

- ic48@sanger.ac.uk

   ic48@sanger.ac.uk

   ic48@sanger.ac.uk

   ic48@sanger.ac.uk

   ic48@sanger.ac.uk

   ic48@sanger.ac.uk

   ic48@sanger.ac.uk

   ic48@sanger.ac.uk
- 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

# Wellcome Trust PhD Fellowship

2024

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

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

### **CLINICAL EXPERIENCE**

Specialty Training, Cardiology

• East of England deanery

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

Core Medical Training

• East of England deanery

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

**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>7</sup>

### TEACHING EXPERIENCE

**BJCA Trainee Representative to BHRS** 

Committe role representing electrophysiology trainees nationally.

current

2017

2017

2015

2015

2013

current | 2022

current   2020	Adult Life Support Instructor Registered provider and instructor
2021   2020	<ul> <li>Cardiology Webinars</li> <li>Organised and recorded a series of educational webinars for cardiology trainees, now hosted at BJCA.tv</li> </ul>
2020   2017	Trainee Representative for East of England     Designed and delivered training days, created website.
2017   2016	Preclinical (physiology) and clinical supervisor     Gonville & Caius College, Cambridge
2015   2014	<ul> <li>Harefield Medical Student Teaching Programme</li> <li>Organised a fortnightly schedule for rotating medical students. Taught regularly.</li> </ul>
2015	ECG Course - Oxford Revision Courses     Oxford Medical School

### **PUBLICATIONS**

2022

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

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. Munroe

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 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 elevation myocardial infarction with non-obstructive coronary arteries.

BMJ case reports

James Cranley, Unni Krishnan, Katharine Tweed, Rudolf Martin Duehmke

2018 • Regulatory and occupational considerations in cardiology

Medicine

2019

James Cranley, Catriona Bhagra

Ventricular pro-arrhythmic phenotype, arrhythmic substrate, ageing and mitochondrial dysfunction in peroxisome proliferator activated receptor-γ 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

2018 • A New Approach to an Old Problem: One Brave Idea.

Circulation research

James Cranley, Calum A. MacRae

TCT-405 Optical coherence tomography-guided optimal 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

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

2010

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



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

### PRESENTATIONS AND POSTERS

**British Heart Foundation Symposium** Jun. 2022 Ocambridge, UK Presentation on single-cell atlasing of the heart **International Conference of Genomics** Dec 2019 York, UK 'KCNQ1 variants and JLNS, genotype-phenotype correlations' **Heart Rhythm Congress** Oct. 2019 Birmingham, UK 'A novel variant causing JLNS, but not LQT1' **British Society of Cardiac Imaging** May. 2019 'Localised effusive-constrictive pericarditis - a late complication of PCI' ◆ Cambridge, UK Society for Cardiovascular Interventions and Angiography (SCAI) May. 2014 Risk factors for haematoma development post cardiac catheterisation. San Diego, USA Association of Surgeons of Great Britain and Northern Ireland Jun. 2014 (ASGBI) 'Appendicitis in women of child-bearing age: the diagnostic process in a busy London teaching hospital' Glasgow, UK QUALIFICATIONS AND AWARDS

Cardiac MRI Level 1 Course (KCH)

May 2019

April 2019	•	British Society of Echocardiography Level 1
2019		Advanced Life Support Instructor
October 2018	•	ALS instructor course (QMS, Nottingham)
Sept 2016	•	National Pacemaker course Pacemaker programming and interrogation (Imperial College)
June 2016		National Pacemaker course Pacemaker programming and interrogation (Imperial College, Sept 2016) FICE Course Focused Echocardiography for critically ill patients (Reading Hospital)
February 2016	•	MRCP PACES
October 2015		IMPACT Course (Arrowe Park Hospital, Liverpool)
March 2015		MRCP Part II
September 2014		MRCP Part I
June 2013	•	Advanced Life Support Provider
		CLINICAL AUDIT
2019	•	CUH Devices Audit 2019 (NICE TA 314)
2017	•	Improving CMT exposure to 2222 QIP, 2017.
2016	•	Hinchingbrooke Hospital Arterial Blood Gas Audit, 2016
2014	•	Harefield Hospital Haematoma post Cardiac Catheterisation Audit, 2014.

Short & Medium term complications post implanted devices, John Radcliffe Hospital, Oxford, 2012/3.