Curriculum Vitae

Personal Details:

PAUL RICHARD RILEY, BSc, PhD, FMedSci

BHF Professor of Regenerative Medicine/
Inaugural Director of the Institute of Developmental & Regenerative Medicine/
Director of BHF Oxbridge Centre of Regenerative Medicine/
Chair of Development and Cell Biology
Department of Physiology, Anatomy & Genetics
Burdon Sanderson Cardiac Science Centre
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University of Oxford
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Source of Funding:

British Heart Foundation / HEFCE
(Non-clinical)

Education & Qualifications:

Ph.D: Reproductive Endocrinology/Molecular Biology
1992-1995 Institute of Zoology / University College London
BSc Hons Zoology
1987-1990 Leeds University

Professional History:

Professor
(10/09-09/11)
Reader
(10/07-09/09)
Senior Lecturer
(10/03-09/07)
Non-Clinical Lecturer
(06/99-09/03)

Molecular Medicine Unit,
UCL-Institute of Child Health

Postdoctoral Research Fellow
(02/99 - 06/99)
Molecular Cardiology, Institute of Molecular Medicine
John Radcliffe Hospital, Oxford, UK

(02/96 - 02/99)
Samuel Lunenfeld Research Institute,
Mount Sinai Hospital, 600 University Avenue
Toronto, Ontario, CANADA

Other Appointments and Affiliations:

Co-founder OxStem Cardio (University of Oxford spin-out; 2016)
Fellow of the Academy of Medical Sciences (2014-present)

Expert witness, House of Commons Science and Technology Select Committee on Regenerative Medicine 2016
Full Member *Faculty 1000* (2008-present)
Elected member of Weinstein Cardiovascular Development Conference Committee (2011-2014)
European Society of Cardiology Developmental Anatomy and Pathology working group member (2001-present)
UK National Stem Cell Network Advisory Board (2008-2012)
British Society for Cardiovascular Research (2001-present)
British Society for Developmental Biology (1999-present)
The New York Academy of Sciences (2010-present)
Co-founder and organiser of the biannual London Heart Development meeting (2005-present)

Grant Reviewer:
Academy of Medical Sciences, Austrian Science Foundation, BBSRC, British Heart Foundation, MRC, Wellcome Trust, INSERM, EU/ERC, Earth and Life Sciences NOW, Fondation pour la Recherche Médicale, Heart Research UK, Hong Kong Research Council, Imperial College School of Medicine Studentships, Israeli Science Foundation, Lister Institute, NHLI Studentships, Qatar National Research Fund

Grant Committee Membership
MRC Training and Career Development Panel 12/09-03/14
BHF Project Grants Committee 05/09-09/12

Journal Reviewer:
Acta Biomateriala**,** American Journal of Human Genetics, Anatomy and Embryology, Biomaterials, BMC developmental Biology, Cell, Cell Stem Cell, Cell Reports, Cellular and Molecular Life Sciences, Circulation, Circulation Research, Development, Developmental Cell, Disease Models & Mechanisms, eLIFE, EMBO J., EMBO Reports, EMBO Medicine, European Heart Journal, FASEB. J., Future Cardiology, Genesis, Heart, International Journal of Experimental Pathology, Journal of Clinical Investigation, Journal of Molecular & Cellular Cardiology, Mechanisms of Development, Molecular Therapy, Nature, Nature Cell Biology, Nature Communications, Nature Genetics, Nature Medicine, NPJ Regenerative Medicine, Nature Reviews Cardiology, Nucleic Acids Research, Oncogene, PLOS Genetics, PLOS One, PNAS, Science, Stem Cells Research, Stem Cells International, TEM, The Lancet, Tissue Engineering

Editorial Board Membership
Guest Editor eLIFE 12/18-present
Associate Editor, Cardiovascular Research 12/17-present
Disease Models and Mechanisms 11/15-present
Circulation Research 06/09-06/15

Prizes, Awards and other Honours:

BHF Oxbridge Regenerative Medicine Centre (Director: 2013-2021)
BHF Personal Chair Award 2011; renewed 2016
ESC Basic Sciences Council Outstanding Achievement Award 2008
MRC Career Establishment Award 2003-2008
Wellcome International Travelling Fellowship 1998-1999
Wellcome Reproductive Biology Fellowship 1996-1998
BBSRC Scholarship 1992-1995

Teaching Activity:

Oxford:
Oxford Medical and Physiological Sciences Course: extended essay supervision (2012-present)
Oxford Final Honours School Molecular Medicine (B5): lectures (2016- present)
Examiner (Essay marking): Preliminary Examinations in Medicine Parts I & II (Graduate-Entry Medical Course FBMC & FBMD; 2015-present)
Lectures: Stem Cells: a Pathway through the Maze (annual lecture: Dept of Continuing Education; Professional Development Short Courses)

UCL:
UCL MRes in Biomedicine (2002-2012):
UCL MSc in Prenatal Genetics and Fetal Medicine (2001-2012):
Co-Director (with Pete Scambler) UCL British Heart Foundation 4-year PhD Programme (2008-2012)
External Examiner, BSc Biomedical Sciences year 3/intercalated programme; St George's Hospital Medical School, University of London (2007-2011)

PhD Student Supervision:

Completed

Catherine Risebro	(2001-2006)	PhD awarded. British Heart Foundation. Science writer: Mudskipper-global healthcare communications agency.
David Martindill	(2005-2008)	PhD awarded. British Heart Foundation. Secondary School teacher.
Alex Rossdeutsch	(2007-2011)	MB/PhD awarded. British Heart Foundation. Clinical consultant training.
Louisa Petchey	(2009-2013)	PhD awarded. CHRAT Studentship; Public Affairs Assistant, Genetic Alliance UK.
Sara Howard	(2010-2014)	PhD awarded. British Heart Foundation 4-year Studentship; Secondary school teacher.
Gemma Balmer	(2010-2014)	PhD awarded. Wellcome Trust Development and Stem Cell Biology 4-year programme; Programme Manager, CRUK.
Linda Klotz	(2010-2014)	PhD awarded. Wellcome Trust Development and Stem Cell Biology 4-year programme; Ernst & Young Graduate Programme.
Abbygail Shaw	(2010-2014)	PhD awarded. BHF/CoMPLEX 4-year programme; Research Associate, UK Health Forum.
Richard Tyser	(2011-2015)	PhD awarded. British Heart Foundation 4-year Studentship; Post-doctoral Fellow, Oxford.
Megan Masters	(2012-2016)	PhD awarded. EU Initial Training Network; Graduate Medical School, Oxford.
Sophie Norman	(2012-2016)	PhD awarded. British Heart Foundation 4-year Studentship; BCG Management Consultants, London.
Caitlin Clunie-O'Connor	(2013-2017)	British Heart Foundation Med. Chem. 4-year Studentship. ZS Management Consultants, London.
Michael Weinberger	(2014-2018)	PhD awarded. British Heart Foundation 4-year Studentship; Post-doctoral Fellow, Oxford.
Thomas Cahill	(2014-2018)	PhD awarded. Wellcome Trust Doctoral Training Fellowship; Clinical Cardiology training, JR Hospital, Oxford
Eleanor Price	(2014-2019)	PhD awarded. British Heart Foundation Studentship (BHF Oxbridge CRM programme); Panacea Innovation Ltd
Caroline Telfer	(2014-2019)	British Heart Foundation Studentship (BHF Oxbridge CRM

		programme)
Joseph Lua	(2017- 2020)	Departmental MRes. studentship.

Ongoing

Konstantinos Klaourakis	(2018-)	Wellcome Trust Chromosome & Developmental Biology 4-year programme.
Chloe Tubman	(2019-)	Wellcome Trust Chromosome & Developmental Biology 4-year programme.
Judy Sayers	(2020-)	Wellcome Trust Chromosome & Developmental Biology 4-year programme.

Current Grants:

British Heart Foundation (BHF) Programme Grant. (PI: Paul Riley). #RG/F/20/110030. The immunomodulatory role of the cardiac lymphatics in heart failure (01/10/21-30/09/24). **£743,212.**

Chan-Zuckerberg Initiative (co-applicant) #INFL 000000013. Probing the role of inflammation in the orchestration of heart regeneration. 01/05/20-30/04/22. **$524,117.**

Medical Research Council Programme grant (PI: Paul Riley). #MR/T01074/1. Targeting immunomodulation following cardiac injury. 01/05/20-30/04/25. **£1,784,366.**

Wellcome Trust. (Co-applicant). #215116/Z/18/Z. The Human Developmental Biology Initiative. (01/11/19-31/10/24). **£9,968,678** total award (Oxford component with Prof. Srinivas **£927,427.67**).

BHF Programme grant. (PI: Paul Riley). #RG/18/5/33532. Epicardial activation and signaling during cardiovascular repair: comparing regenerative and non-regenerative models (programme extension: 01/10/18-30/09/21). **£588,176.**

BHF Oxbridge Cardiovascular Regenerative Medicine Centre. (PI: Paul Riley) #RM/17/2/33380 (renewal: 01/10/17-30/09/21). **£2,500,000.**

BHF Personal Chair Award. (PI: Paul Riley). #CH/11/1/28798. Translating the therapeutic potential of the epicardium. (5-year renewal: 01/10/16-30/09/21). **£1,699,949**.

BHF Strategic Initiative Award. (PI: Paul Riley) #30552. The Institute of Developmental and Regenerative Medicine. **£10,000,000** (awarded 20/11/13).

Recent Significant Grants:

Leducq Transatlantic Network (co-applicant). #14 CVD 04. Programming the failing heart to a regenerative state. (01/10/14-30/09/20; incl. one-year extension). **$6,000,000 USD** total award (Oxford component **£486,160**).

BHF Programme grant. (PI: Paul Riley). #RG/13/9/30269. Epicardial activation and signaling during cardiovascular repair: comparing regenerative and non-regenerative models. (01/10/13-30/09/18). **£1,145,345.**

BIRAX Regenerative Medicine Initiative, 2015 Research Call Partnership (co-PI with Eldad Tzahor). Investigating the niche-like microenvironment of the epicardium and its role in signalling to facilitate heart regeneration. (01/08/15-31/07/18) **£400,000** (awarded **£200,000**)

BHF Oxbridge Cardiovascular Regenerative Medicine Centre. (PI: Paul Riley) #RM/13/3/30159 (01/10/13-30/09/17). **£2,500,000.**

BHF Personal Chair Award. Translating the therapeutic potential of the epicardium (01/10/11-30/09/16). **£1,521,629**.

BBSRC Research Grant Award ((PI: Shankar Srinivas; co-applicant). Probing cell and tissue dynamics with light-sheet microscopy. (11/2013 to 03/2014). **£452,178.**

EU Marie Curie FP7 Innovative Training Network. CardioNet. (PI: Enrique Lara-Pezzi; co-applicant). #289600. (01/01/12-31/12/16). **266,700.51€.**

BHF Centre of Research Excellence strategic award (with Roger Patient). Establishing models of adult zebrafish heart regeneration (01/10/12-30/09/14). **£178, 665.**

BHF Project grant (with Paul Martin). To investigate inflammation in heart repair in zebrafish. (01/10/12-30/09/14). **£170, 884.**

BHF Project grant. Investigating an epistatic relationship between Prox1 and Nkx2.5 in the cardiac conduction system. (08/10/09-06/03/14). **£253,875.**
BHF Programme grant. Lineage characterization of adult EPDCs. (01/10/08-30/09/13). **£1,090,811.**
Medical Research Council (MRC). PhD studentship Investigating Prox1 in muscle development and disease. (01/10/09-30/09/12). **£66,030.**
MRC Project grant. Investigating Thymosin β4-mediated myocardial regeneration and anti-inflammatory wound healing in the injured heart. (01/10/08-30/09/11). **£433,477.**

Fellowships Currently Held within Group:
BHF Senior Basic Science Research Fellowship. Dr Nicola Smart. Targeting developmental mechanisms to augment neovascularization of the ischaemic heart. (01/09/19-31/08/24). **£928,402.**
BHF Intermediate Basic Sciences Fellowship. Dr Joaquim Vieira. Investigating the functional role of the noncoding genome during epicardial epithelial-to-mesenchymal transition to enable cardiovascular regeneration. (01/10/19-30/09/24). **£817,466.**
Wellcome Sir Henry Dale Fellowship. Dr Oliver Stone. Spatiotemporal dissection of vascular heterogeneity. (02/02/20-01/02/25). **£1,170,308**

Invited talks (2012-2019):

International:

Jan.	2012	Keynote Lecture, 9th Cardiovascular Stem Cell meeting, Tokyo, Japan
Jan.	2012	Keynote Speaker, Keystone Symposium: Cardiovascular Development and Regeneration, Taos, New Mexico, US
Mar.	2012	Cardiac Development: Pluripotent Cells to Cardiac Regenerative Therapy Symposium, Munich, Germany
Oct.	2012.	DFG Cardiovascular programme symposium “Genotype-Phenotype”; Düsseldorf, Germany
Nov.	2012.	Guest speaker. Danish Heart Foundation’s 50th anniversary conference; Copenhagen, Denmark
May	2013	Cardiovascular Research Center Seminar Series Duke University Medical Center, US
June	2013.	Plenary speaker. EMBO/EMBL Symposium on Cardiac Biology: From Development to Regenerative Medicine; Heidelberg, Germany
June	2013	A Nobel Day, Lisbon, Portugal
Oct.	2013	Cologne Conference: Growth Factors and Cardiovascular Disease, Germany
April	2014	18th International Vascular Biology Meeting, Kyoto, Japan
May	2014	2nd Munich Conference on Cardiac Development, Munich, Germany
July	2014	Frontiers in Cardiovascular Biology, Barcelona, Spain
July	2014	Cardiovascular Extracellular Matrix in health and disease, Baeza, Spain (meeting co-organiser)
July	2014	CS&D, Hubrecht Institute, Utrecht, The Netherlands
Sept.	2014	University of Frankfurt/Max Planck Bad Nauheim, Germany
Mar.	2015	Keystone Symposium: Heart Disease and Regeneration, Copper Mountain, CO, US
June	2015	Cardiac Regeneration and Vascular Biology Conference; San Servolo, Venice, Italy
Sept.	2015	International keynote speaker; German Stem Cell Network, Frankfurt, Germany
Sept.	2015	Joint Dutch-German Microcirculation meeting: Keynote dinner address; Hannover, Germany
Mar.	2016	Lymphatics Gordon Conference; Ventura, CA, US
April	2016	Keystone Symposium: Cardiac Development, Regeneration and Repair; Snowbird, Utah, US
April	2016	Karolinska Institute, Dept of Cell & Molecular Biology Invited seminar; Stockholm, Sweden

June 2016 ESC Frontiers in Cardiovascular Biology; Florence, Italy
Sept 2016 9th International Klöster Seeon Angiogenesis meeting; Klöster Seeon, Germany
Mar. 2017 Keystone Symposium: Molecular Mechanisms of Heart Development; Keystone, CO, US
Aug. 2017 Chinese Academy of Sciences, Shanghai and Beijing, China
Oct. 2017 German Society for Microcirculation and Vascular Biology symposium- Keynote; Zugspitze, Germany
Oct. 2017 NAVBO Workshop on Developmental Vascular Biology and Genetics, Pacific Grove, CA, US
Nov. 2017 Second Cambridge-Oxford- Sunway Symposium, Kuala Lumpur, Malaysia
Dec. 2017 GNAS symposium-inflammation and regeneration, Düsseldorf, Germany
April 2018 Albert Einstein College of Medicine invited seminar, New York, USA
May 2018 Weinstein Cardiovascular Development and Regeneration meeting, Nara, Japan
Sept. 2018 EMBO conference: The molecular and cellular basis of regeneration and tissue repair, Valetta, Malta
Oct. 2018 4th Munich Conference on Cardiac Development, Munich, Germany
Oct. 2018 ESC Cardiovascular Development meeting, Marseille, France
Nov. 2018 IX CNIC Conference: "New Frontiers in Cardiovascular Biology", Madrid, Spain
Jan 2019 Heart Failure Association Winter meeting, Les Diablerets, Switzerland
June 2019 Tissue Repair and Regeneration Gordon Conference, Colby Sawyer, NH, USA
Sept. 2019 1st Discoveries Forum on Translational Science, Porto, Portugal
Oct. 2019 International Max Planck Research School for Heart and Lung Research, Hohenroda, Germany
Dec. 2019 8th ANCVDB meeting (plenary speaker). Adelaide, Australia
Dec. 2019 Dept. of Physiology, University of Melbourne Seminar Series, Melbourne, Australia
Sept. 2020 14th Qianjiang International Cardiovascular Conference, China; virtual meeting
Mar. 2021 Cody Lecture series for the Cincinnati Children's Heart Institute, Cincinatti, US; virtual meeting

National:

Mar. 2012 SSCN Cardiovascular Stem Cells meeting, Glasgow, UK
Mar. 2012 Frontiers in Cardiovascular Biology, Imperial College London, UK
Apr. 2012 The Cardiology in the Young Lecture, UCL-ICH, UK
June 2012 Cheltenham Science Festival: Organ Regeneration, UK
Sept. 2012 EMBO/BSDB Conference: Regeneration and Tissue Repair, Oxford, UK
Sept. 2012 MRC Harwell Seminar, UK
Jan. 2013 Cardiovascular Sciences Seminar, Edinburgh, UK
Apr. 2013 Tissue Regeneration & Stem Cell Seminar, Manchester, UK
Dec. 2013 MedImmune, Cambridge, UK
June 2014 Institute of Cardiovascular and Medical Sciences, Glasgow, UK
June 2014 UCL Division of Medicine Distinguished Speaker Seminar Programme, UK
July 2014 Academy of Medical Sciences Inauguration Lecture, London, UK
Sept. 2014 Keynote speaker at the Laboratory of Regenerative Medicine Annual Retreat, Cambridge, UK
Nov. 2014 Bristol Cardiovascular Seminar, University of Bristol, UK
Feb. 2015 Bristol Cardiovascular Regenerative Medicine workshop, UK
Sept. 2015 25th Annual meeting of the Chancellor's Court of Benefactors, Oxford, UK
Oct. 2015 Oxford Bio-Imaging Festival, St John's College, Oxford, UK
Feb. 2016 Company of Biologists workshop: Trans-differentiation and Tissue Plasticity in Cardiovascular Rejuvenation, Wiston House, West Sussex, UK
Mar. 2016 Tissue Systems Seminar Series, University of Manchester, UK
Apr. 2016 BIRAX 3rd Annual Conference, Oxford, UK

June	2016	Institute of Cardiovascular Sciences Seminar Series, Birmingham, UK
Apr.	2017	British Society for Cell and Gene Therapy, Annual Conference, Cardiff, UK
May	2017	British Cardiovascular Society, Annual Meeting, Manchester, UK
Sept.	2017	BHF 5th Annual Fellows' Symposium, Career Seminar, Cambridge, UK
Oct.	2017	BHF Centre for Cardiovascular Sciences seminar, Edinburgh, UK
Mar.	2018	Imperial BHF Centre of Research Excellence seminar series, Imperial College London, UK
Dec.	2018	The Kennedy Institute, University of Oxford, UK
Dec.	2018	Leeds Institute of Cardiovascular & Metabolic Medicine, University of Leeds, UK
Feb.	2019	Manchester Regenerative Medicine Network Annual Symposium, Manchester
Sept.	2019	OBN meeting, Novo Nordisk Research Centre, Bio-escalator, Oxford, UK
Oct.	2019	William Harvey Research Institute, Queen Mary University of London, UK
Oct.	2019	Stem Cells UK Meeting, The Francis Crick Institute, London, UK
Nov.	2019	Bristol Heart Institute Annual Symposium- Keynote Lecture, Bristol, UK
Nov.	2020	The 2nd Stem Cells UK Meeting, virtual meeting
Apr.	2021	The Cambridge Stem Cell Institute, International Seminar Series, Cambridge, UK
July	2021	Cell Biology and Genetics seminar series, St George's University London, UK

Publications:

Journal Articles

- Villa del Campo, C., Norman Y. Liaw, N.Y., Gunadasa-Rohling, M., Matthaei, M., Braga, L., Kennedy, T., Salinas, G., Voigt, N., Giacca, M. Zimmermann, W-H., **Riley, P.R.** (2021). Regenerative potential of epicardium-derived extracellular vesicles mediated by conserved miRNA transfer. Cardiovascular Research, doi: 10.1093/cvr/cvab054 [Epub ahead of print].

- Cahill, T.J., Sun, X., Ravaud, C., Villa del Campo, C., Klaourakis, K., Lupu, I-E, Lord, A.M., Browne, C., Jacobsen, S-E.W., Greaves, D.R., Jackson, D.G., Cowley, S.A., James, W., Choudhury, R.P., Vieira, J.M. & **Riley, P.R.** (2021). Tissue-resident macrophages regulate lymphatic vessel growth and patterning in the developing heart. *Development*, dev.194563 doi: 10.1242/dev.194563.

- De Villiers, C & **Riley, P.R.** (2021). A refined protocol for coronary artery ligation in the neonatal mouse. *Current Protocols in Mouse Biology*, in press.

- Sun, X., Malandraki-Miller, S., Kennedy, T., Bassat, E., Klaourakis, K., Zhao, J., Gamen, E., Vieira, J.M., Tzahor, E. & **Riley, P.R.** (2020). The extracellular matrix protein agrin is essential for epicardial epithelial-to-mesenchymal transition during heart development. Preprint *bioRxiv*, 2020.09.25.313742; doi: https://biorxiv.org/cgi/content/short/2020.09.25.313742v1 (under review at *Development*).

- Chong-Morrison, V., Simões, F.C., Senanayake, U., Caroll, D., **Riley, P.R.** & Sauka-Spengler, T. Re-purposing Ac/Ds transgenic system for CRISPR/dCas9 modulation of enhancers and non-coding RNAs in zebrafish. Preprint *bioRxiv*, 2018. DOI: https://doi.org/10.1101/450684 (in revision at *Development*).

- Koth, J., Wang, X., Killen, A.C., Stockdale, W.T., Potts, H.G., Jefferson, A., Bonkhofer, F., **Riley, P.R.**, Patient, R.K., Gottgens, B. & Mommersteeg, M.T.M. (2020). Runx1 promotes scar deposition and inhibits myocardial proliferation and survival during zebrafish heart regeneration. *Development* 147: dev186569 doi: 10.1242/dev.186569.

- *Weinberger, M., Simões, F.C., Patient, R., Sauka-Spengler, T. & **Riley, P.R.** (2020) Functional heterogeneity within the developing zebrafish epicardium. *Developmental Cell* DOI: 10.1016/j.devcel.2020.01.023.

- *Simões, F.C.,* Cahill, T.J.,* Kenyon, A., Gavriouchkina, D., Vieira, J.M., Sun, X., Pezzolla, D., Ravaud, C., Masmanian, E., Weinberger, M., Mayes, S., Lemieux, M.E., Barnette, D.N., Gunadasa-Rohling, M., Williams, R., Greaves, D.R., Trinh, L.A., Fraser, S.E., Dallas, S.L., Choudhury, R.P., Sauka-Spengler, T. & **Riley, P.R.** (2020). Macrophages directly contribute collagen to scar formation during zebrafish heart regeneration and mouse heart repair. *Nature Communications* 11(1):600. doi: 10.1038/s41467-019-14263-2.

- Jafree D.J., Moulding, D., Kolatsi-Joannou, M., Perretta Tejedor, N., Price, K.L., Milmoe, N., Walsh, C., Correra, R.M., Winyard, P.J.D., Harris, P.C., Ruhrberg, C., Walker-Samuel, S., **Riley, P.R.**, Woolf, A.S., Scambler, P.J. & Long, D.A. (2019). Spatiotemporal dynamics and heterogeneity of renal lymphatics in mammalian development and cystic kidney disease. *eLIFE*, 8: e48183 doi: 10.7554/eLife.48183.

- Gambardella, L., McManus, S.A., Moignard, V., Sebukhan, D., Delaune, A., Andrews, S., Bernard, W.G., Morrison, M.A., **Riley, P.R.**, Gottgens, B., Gambardella Le Novere, N. & Sinha, S. (2019). BNC1 regulates cell heterogeneity in human pluripotent stem cell derived-epicardium. *Development*, 146: dev174441. doi: 10.1242/dev.174441.

- Bevan, L., Lim, Z.W., Venkatesh, B., **Riley, P.R.**, Martin, P. & Richardson, R. J. (2019). Specific macrophage populations promote both cardiac scar deposition and subsequent resolution in adult zebrafish. *Cardiovascular Research*, doi: 10.1093/cvr/cvz221. [Epub ahead of print].

- Gunadasa-Rohling, M., Masters, M., Maguire, M.L., Smart, S.C., Schneider, J.E. & **Riley, P.R.** (2018). Magnetic resonance imaging of the regenerating neonatal mouse heart. *Circulation* **38**, 2439–2441.

- Stockdale, W.T., Lemieux, M.E., Killen, A.C., Zhao, J., Hu, Z., Riepsaame, J. Hamilton, N., Kudoh, T., **Riley, P.R.**, van Aerle, R., Yamamoto, Y. & Mommersteeg, M.T.M. (2018). Heart Regeneration in the Mexican Cavefish. *Cell Reports* **25**, 1997–2007.

- *Vieira, J.M, Norman, S., Villa del Campo, C., Cahill, T.J., Barnette, D.N., Gunadasa-Rohling, M., Johnson, L. A., Greaves, D.R., Carr, C.A., Jackson, D.G. & **Riley, P.R.** (2018). The cardiac lymphatic system stimulates resolution of inflammation following myocardial infarction. *Journal of Clinical Investigation* **128**, 3402-3412. DOI: https://doi.org/10.1172/JCI97192.

- Lovering, R.C., Roncaglia, P., Howe, D.G., Laulederkind, S.J.F., Khodiyar, V.K., Berardini, T.Z., Tweedie, S., Foulger, R.E., Osumi-Sutherland, D., Campbell, N.H., Huntley, R.P., Talmud, P.J., Blake, J.A., Breckenridge, R., **Riley, P.R.**, Lambiase, P.D., Elliott, P.M., Clapp, L., Tinker, A., Hill, D.P. (2018). Improving Interpretation of Cardiac Phenotypes and Enhancing Discovery with Expanded Knowledge in the Gene Ontology. *Circulation: Genomic & Precision Medicine* **11**: e001813. DOI: 10.1161/CIRCGEN.117.001813.

- Barnette, D.N., Cahill, T.J, Gunadasa-Rohling, M., Carr, C.A., Freeman, M., **Riley P.R**. (2018) iRhom2-mediated proinflammatory signalling regulates heart repair following myocardial infarction. *JCI Insight* **3**(3). DOI: 10.1172/jci.insight.98268.

- Dubé, K.N., Thomas, T.M., Munshaw, S., Rohling, M., **Riley, P.R.** & Smart, N. (2017) Recapitulation of developmental mechanisms to revascularize the ischemic heart. *JCI Insight* **2**(22): e96800. DOI.10.1172/jci.insight.96800.

- Akbar, N., Digby,J. E., Cahill, T. J., Tavare, A.N., Corbin, A.L., Saluja, S., Dawkins, S., Edgar, L., Rawlings, N., Ziberna, K., McNeill, E., Oxford Acute Myocardial Infarction (OxAMI) Study, Johnson, E., Aljabali, A. A., Dragovic, R.A., Rohling, M., Belgard, T.G. Udalova, I. A., Greaves, D.R., Channon, K. M., **Riley, P.R.**, Anthony, D.C., & Choudhury, R.P. (2017). Endothelium-derived extracellular vesicles promote splenic monocyte mobilization in myocardial infarction. *JCI Insight* **2**(17): e93344. DOI:10.1172/jci.insight.93344.

- *Vieira, J.M., Howard, S., Villa del Campo, C., Bollini, S., Dubé, K.N., Masters, M., Barnette, D.N., Rohling, M., Sun, X., Hankins, L., Gavriouchkina, D., Williams, R., Metzger, D., Chambon, P., Sauka-Spengler, T., Davies, B. & **Riley, P.R.** (2017). BRG1-SWI/SNF-dependent regulation of the Wt1 transcriptional landscape mediates epicardial activity during heart development and disease. *Nature Communications* DOI: 10.1038/ncomms16034.

- Koth, J., Maguire, M.L., McClymont, D., Diffley, L., Thornton, V.L., Beech, J., Patient, R.K., **Riley, P.R.** & Schneider, J.E (2017). High-Resolution Magnetic Resonance Imaging of the Regenerating Adult Zebrafish Heart. *Scientific Reports* DOI: 10.1038/s41598-017-03050-y.

- Smart, N, Riegler, J., Turtled, C.W., Lygate, C.A., McAndrew, D.J., Gehmlich, K., Dubée, K.N., Price, A.N., Muthurangug, V., Taylor, A.M., Lythgoe, M.F., Redwood, C. & **Riley, P. R.** (2017). Aberrant developmental titin splicing and dysregulated sarcomere length in Thymosin β4 knockout mice. *Journal of Molecular and Cellular Cardiology* **102**, 94-107.

- Vasilopoulou, E, Kolatsi-Joannou, M, Lindenmeyer, M.T., White, K.E., Robson, M.G., Cohen, C.D., Sebire, N.J., **Riley, P.R.**, Winyard, P.J. & Long, D.A. (2016). Loss of endogenous thymosin β4 accelerates glomerular disease. *Kidney International*. **90**, 1056-1070.

- *Tyser, R.C.V., Miranda, A.M.A, Chiann-mun, C, Davidson, S.M., Srinivas, S. & **Riley, P.R.** (2016). Calcium handling precedes cardiac differentiation to initiate the first heartbeat. *eLIFE* 5:e17113. DOI: http://dx.doi.org/10.7554/eLife.17113.001.

- Clunie-O'Connor, C., Smits, A. M., Antoniades, C., Russell, A. J., Yellon, D. M., Goumans, M-J & **Riley, P. R.** (2015). The derivation of primary human epicardium-derived cells. *Current Protocols in Stem Cell Biology* 35:2C.5.1-2C.5.12. DOI: 10.1002/9780470151808.sc02c05s35.

- Risebro, C.A., Vieira, J.M., Klotz, L. & **Riley, P.R.** (2015). Characterisation of the human embryonic and foetal epicardium during heart development. *Development* **142**, 3630-3636.

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