

Employment

Professor

Pharmacology
MONASH UNIVERSITY
1 Nov 2009 → present

Monash Biomedicine Discovery Institute

MONASH UNIVERSITY
1 Jan 2016 → present

Victorian Heart Institute (VHI)

MONASH UNIVERSITY
1 May 2020 → present

Research outputs

Elucidating the cell penetrating properties of self-assembling β -peptides

McFetridge, M. L., Kulkarni, K., Lee, T-H., Del Borgo, M. P., Aguilar, M. I. & Ricardo, S. D., 28 Sept 2023, In: *Nanoscale*. 36, p. 14971–14980 10 p.

GLA-modified RNA treatment lowers GB3 levels in iPSC-derived cardiomyocytes from Fabry-affected individuals

ter Huurne, M., Parker, B. L., Liu, N. Q., Qian, E. L., Vivien, C., Karavendzas, K., Mills, R. J., Saville, J. T., Abu-Bonsrah, D., Wise, A. F., Hudson, J. E., Talbot, A. S., Finn, P. F., Martini, P. G. V., Fuller, M., Ricardo, S. D., Watt, K. I., Nicholls, K. M., Porrello, E. R. & Elliott, D. A., 7 Sept 2023, In: *American Journal of Human Genetics*. 110, 9, p. 1600-1605 6 p.

Cellular delivery of relaxin-2 mRNA as a potential treatment for kidney fibrosis

Ding, C., Wang, B., Lai, X. F., Guo, Y., Tesch, G., Ding, X., Zheng, J., Tian, P. X., Ricardo, S., Shen, H-H. & Xue, W., Aug 2023, In: *Materials Today Bio*. 21, 12 p., 100716.

The protective effects of a novel AT₂ receptor agonist, β -Pro⁷Ang III in ischemia-reperfusion kidney injury

Zhang, T., Li, Y., Wise, A. F., Kulkarni, K., Aguilar, M. I., Samuel, C. S., Del Borgo, M., Widdop, R. E. & Ricardo, S. D., May 2023, In: *Biomedicine & Pharmacotherapy*. 161, 114556, 13 p., 114556.

Simultaneous late-gadolinium enhancement and T1 mapping of fibrosis and a novel cell-based combination therapy in hypertensive mice

Li, Y., Zheng, G., Salimova, E., Broughton, B. R. S., Ricardo, S. D., de Veer, M. & Samuel, C. S., Feb 2023, In: *Biomedicine & Pharmacotherapy*. 158, 19 p., 114069.

A comparison of fixation methods for SEM analysis of self-assembling peptide hydrogel nanoarchitecture

McFetridge, M. L., Kulkarni, K., Hilsenstein, V., Del Borgo, M. P., Aguilar, M. I. & Ricardo, S. D., 21 Jan 2023, In: *Nanoscale*. 15, 3, p. 1431-1440 10 p.

Enhancing the Therapeutic Potential of Mesenchymal Stromal Cell-Based Therapies with an Anti-Fibrotic Agent for the Treatment of Chronic Kidney Disease

Li, Y., Ricardo, S. D. & Samuel, C. S., 1 Jun 2022, In: *International Journal of Molecular Sciences*. 23, 11, 24 p., 6035.

The Placental NLRP3 Inflammasome and Its Downstream Targets, Caspase-1 and Interleukin-6, Are Increased in Human Fetal Growth Restriction: Implications for Aberrant Inflammation-Induced Trophoblast Dysfunction

Alfian, I., Chakraborty, A., Yong, H. E. J., Saini, S., Lau, R. W. K., Kalionis, B., Dimitriadis, E., Alfaidy, N., Ricardo, S. D., Samuel, C. S. & Murthi, P., 1 May 2022, In: *Cells*. 11, 9, 25 p., 1413.

A Novel Approach to Enhance the Regenerative Potential of Circulating Endothelial Progenitor Cells in Patients with End-Stage Kidney Disease

Badawi, A., Jefferson, O. C., Huuskes, B. M., Ricardo, S. D., Kerr, P. G., Samuel, C. S. & Murthi, P., Apr 2022, In: *Biomedicines*. 10, 4, 13 p., 883.

WNT1-inducible signaling pathway protein 1 regulates kidney inflammation through the NF- κ B pathway

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The Differentiation of Human Induced Pluripotent Stem Cells into Podocytes In Vitro

Wise, A. F., Saini, S. & Ricardo, S., 2022, *Induced Pluripotent Stem (iPS) Cells: Methods and Protocols*. Nagy, A. & Turksen, K. (eds.). 2nd ed. New York NY USA: Humana Press, p. 317-325 9 p. (Methods in Molecular Biology; vol. 2454).

Significance of the placental barrier in antenatal viral infections

Yong, H. E. J., Chan, S-Y., Chakraborty, A., Rajaraman, G., Ricardo, S., Benharouga, M., Alfaidy, N., Staud, F. & Murthi, P., 1 Dec 2021, In: *Biochimica et Biophysica Acta - Molecular Basis of Disease*. 1867, 12, 8 p., 166244.

Comparing the renoprotective effects of BM-MSCs versus BM-MSC-exosomes, when combined with an anti-fibrotic drug, in hypertensive mice

Li, Y., Chakraborty, A., Broughton, B. R. S., Ferens, D., Widdop, R. E., Ricardo, S. D. & Samuel, C. S., Dec 2021, In: *Biomedicine & Pharmacotherapy*. 144, 12 p., 112256.

Modelling X-linked Alport Syndrome With Induced Pluripotent Stem Cell-Derived Podocytes

Lau, R. W. K., Fisher, C., Phan, T. K., Ozkocak, D. C., Selby, J., Saini, S., Mukundan, S., Wise, A. F., Savige, J., Ho Poon, I. K., Haynes, J. & Ricardo, S. D., Nov 2021, In: *Kidney International Reports*. 6, 11, p. 2912-2917 6 p.

Combining mesenchymal stem cells with serelaxin provides enhanced renoprotection against 1K/DOCA/salt-induced hypertension

Li, Y., Shen, M., Ferens, D., Broughton, B. R. S., Murthi, P., Saini, S., Widdop, R. E., Ricardo, S. D., Pinar, A. A. & Samuel, C. S., Mar 2021, In: *British Journal of Pharmacology*. 178, 5, p. 1164-1181 18 p.

WNT1-inducible-signaling pathway protein 1 regulates the development of kidney fibrosis through the TGF- β 1 pathway

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Percutaneous intrarenal transplantation of differentiated induced pluripotent stem cells into newborn mice

Lau, R. W. K., Al-Rubaie, A., Saini, S., Wise, A. F. & Ricardo, S. D., Oct 2020, In: *Anatomical Record*. 303, 10, p. 2603-2612 10 p.

Renal epithelial cells retain primary cilia during human acute renal allograft rejection injury

Vergheese, E., Martelotto, L. G., Cain, J. E., Williams, T. M., Wise, A. F., Hill, P. A., Langham, R. G., Watkins, D. N., Ricardo, S. D. & Deane, J. A., 1 Nov 2019, In: *BMC Research Notes*. 12, 1, 5 p., 718.

MTOR-mediated podocyte hypertrophy regulates glomerular integrity in mice and humans

Puelles, V. G., van der Wolde, J. W., Wanner, N., Scheppach, M. W., Cullen-McEwen, L. A., Bork, T., Lindenmeyer, M. T., Gernhold, L., Wong, M. N., Braun, F., Cohen, C. D., Kett, M. M., Kuppe, C., Kramann, R., Saritas, T., Van Roeyen, C. R., Moeller, M. J., Tribolet, L., Rebello, R., Sun, Y. B. Y., & 13 othersLi, J., Müller-Newen, G., Hughson, M. D., Hoy, W. E., Person, F., Wiech, T., Ricardo, S. D., Kerr, P. G., Denton, K. M., Furic, L., Huber, T. B., Nikolic-Paterson, D. J. & Bertram, J. F., 19 Sept 2019, In: *JCI Insight*. 4, 18, 18 p., e99271.

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Huuskes, B. M., DeBuque, R. J., Kerr, P. G., Samuel, C. S. & Ricardo, S. D., 10 Apr 2019, In: *Frontiers in Cell and Developmental Biology*. 7, 14 p., 45.

The use of targeted next generation sequencing to explore candidate regulators of TGF- β 1's impact on kidney cells
Wang, B., Ji, G., Naeem, H., Wang, J., Kantharidis, P., Powell, D. & Ricardo, S. D., Dec 2018, In: *Frontiers in Physiology*. 9, 14 p., 1755.

Gene editing of stem cells for kidney disease modelling and therapeutic intervention
Lau, R. W. K., Wang, B. & Ricardo, S. D., 1 Nov 2018, In: *Nephrology*. 23, 11, p. 981-990 10 p.

Induced pluripotent stem cell-derived podocyte-like cells as models for assessing mechanisms underlying heritable disease phenotype: Initial studies using two alport syndrome patient lines indicate impaired potassium channel activity
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The use of hydrogels for cell-based treatment of chronic kidney disease
McFetridge, M. L., Del Borgo, M. P., Aguilar, M-I. & Ricardo, S. D., 14 Sept 2018, In: *Clinical Science*. 132, 17, p. 1977-1994 18 p.

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Effects of antenatal melatonin therapy on lung structure in growth-restricted newborn lambs
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Cell-based therapies for tissue fibrosis
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The Chemical Chaperone, PBA, Reduces ER Stress and Autophagy and Increases Collagen IV α 5 Expression in Cultured Fibroblasts From Men With X-Linked Alport Syndrome and Missense Mutations
Wang, D., Mohammad, M., Wang, Y., Tan, R., Murray, L. S., Ricardo, S., Dagher, H., van Agtmael, T. & Savige, J., 1 Jul 2017, In: *Kidney International Reports*. 2, 4, p. 739-748 10 p.

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miR-378 reduces mesangial hypertrophy and kidney tubular fibrosis via MAPK signalling
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Renal cellular hypoxia in adenine-induced chronic kidney disease
Fong, D., Ullah, M. M., Lal, J. G., Abdelkader, A., Ow, C. P. C., Hilliard, L. M., Ricardo, S. D., Kelly, D. J. & Evans, R. G., 1 Oct 2016, In: *Clinical and Experimental Pharmacology and Physiology*. 43, 10, p. 896-905 10 p.

Mesenchymal stem cells as novel micro-ribonucleic acid delivery vehicles in kidney disease

Yao, K. & Ricardo, S. D., 1 May 2016, In: *Nephrology*. 21, 5, p. 363-371 9 p.

Human mesenchymal stem cells alter the gene profile of monocytes from patients with Type 2 diabetes and end-stage renal disease

Wise, A. F., Williams, T. M., Rudd, S. A., Wells, C. A., Kerr, P. G. & Ricardo, S. D., 2 Mar 2016, In: *Regenerative Medicine*. 11, 2, p. 145-158 14 p.

Inpp5e suppresses polycystic kidney disease via inhibition of PI3K/Akt-dependent mTORC1 signaling

Hakim, S., Dyson, J. M., Feeney, S. J., Davies, E. M., Sriratana, A., Koenig, M. N., Plotnikova, O., Smyth, I. M., Ricardo, S. D., Hobbs, R. M. & Mitchell, C. A., 2016, In: *Human Molecular Genetics*. 25, 11, p. 2295-2313 19 p.

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Wang, B., Yao, K., Huuskes, B. M., Shen, H-H., Zhuang, J., Godson, C., Brennan, E. P., Wilkinson-Berka, J. L., Wise, A. F. & Ricardo, S. D., 2016, In: *Molecular Therapy*. 24, 7, p. 1290-1301 12 p.

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Serelaxin improves the therapeutic efficacy of RXFP1-expressing human amnion epithelial cells in experimental allergic airway disease

Royce, S. G., Tominaga, A. M., Shen, M., Patel, K. P., Huuskes, B., Lim, R., Ricardo, S. D. & Samuel, C. S., 2016, In: *Clinical Science*. 130, 23, p. 2151-2165 15 p.

Combination therapy of mesenchymal stem cells and serelaxin effectively attenuates renal fibrosis in obstructive nephropathy

Huuskes, B., Wise, A. F., Cox, A. J., Lim, E. X., Payne, N. L., Kelly, D. J., Samuel, C. S. & Ricardo, S. D., 2015, In: *The FASEB Journal*. 29, 2, p. 540 - 553 14 p.

M2 macrophage accumulation in the aortic wall during angiotensin II infusion in mice is associated with fibrosis, elastin loss, and elevated blood pressure

Moore, J. P., Vinh, A., Tuck, K. L., Sakkal, S., Krishnan, S., Chan, C., Lieu, M., Samuel, C. S., Diep, H., Harper, B. K., Tare, M., Ricardo, S. D., Guzik, T. J., Sobey, C. G. & Drummond, G. R., 2015, In: *American Journal of Physiology - Heart and Circulatory Physiology*. 309, 5, p. 906 - 917 12 p.

Mesenchymal stem cells and serelaxin synergistically abrogate established airway fibrosis in an experimental model of chronic allergic airways disease

Royce, S. G., Shen, M., Patel, K. P., Huuskes, B., Ricardo, S. D. & Samuel, C. S., 2015, In: *Stem Cell Research*. 15, 3, p. 495 - 505 11 p.

Establishing the flow cytometric assessment of myeloid cells in kidney ischemia/reperfusion injury

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Wise, A. F., Williams, T. M., Kiewiet, M. B. G., Payne, N. L., Siatskas, C., Samuel, C. S. & Ricardo, S. D., 2014, In: *American Journal of Physiology-Renal Physiology*. 306, 10, p. 1222 - 1235 14 p.

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The effect of CSF-1 administration on lung maturation in a mouse model of neonatal hyperoxia exposure

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Moore, J., Sakkal, S., Bullen, M. L., Harper, B. K., Ricardo, S. D., Sobey, C. G. & Drummond, G. R., 2013, In: *Journal of Immunological Methods*. 396, 1-2, p. 33 - 43 11 p.

Does a nephron deficit exacerbate the renal and cardiovascular effects of obesity?

Gurusinghe, S., Brown, R. D., Cai, X., Samuel, C. S., Ricardo, S. D., Thomas, M. C. & Kett, M. M., 2013, In: *PLoS ONE*. 8, 9, 8 p., e73095.

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Jones, C., Williams, T. M., Walker, K. A., Dickinson, H., Sakkal, S., Rumballe, B. A., Little, M. H., Jenkin, G. & Ricardo, S. D., 2013, In: *Respiratory Research*. 14, 1, p. 1 - 14 14 p., 41.

Macrophages and CSF-1: implications for development and beyond

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Mononuclear phagocyte system in kidney disease and repair

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Visualizing renal primary cilia

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Emerging roles for renal primary cilia in epithelial repair

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Mesenchymal stem cells in kidney Inflammation and repair

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Neural differentiation of patient specific iPS cells as a novel approach to study the pathophysiology of multiple sclerosis

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Vergheese, E., Johnson, C. J., Bertram, J. F., Ricardo, S. D. & Deane, J. A., 2012, In: *BMC Nephrology*. 13, 1 (Art. No.: 91), p. 1 - 11 11 p.

The primordial follicle reserve is not renewed after chemical or gamma-irradiation mediated depletion
Kerr, J. B., Brogan, L., Myers, M., Hutt, K. J., Mladenovska, T., Ricardo, S. D., Hamza, K., Scott, C. L., Strasser, A. & Findlay, J. K., 2012, In: *Reproduction*. 143, 4, p. 469 - 476 8 p.

Regenerative Nephrology, Book Review
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Colony-stimulating factor-1 promotes kidney growth and repair via alteration of macrophage responses
Alikhan, M., Jones, C., Williams, T., Beckhouse, A., Fletcher, A., Kett, M., Sakkal, S., Samuel, C. S., Ramsay, R., Deane, J., Wells, C., Little, M., Hume, D. & Ricardo, S., 2011, In: *American Journal of Pathology*. 179, 3, p. 1243 - 1256 14 p.

Generation of induced pluripotent stem cells from human kidney mesangial cells
Song, B., Niclis, J., Alikhan, M., Sakkal, S., Sylvain, A., Kerr, P., Laslett, A., Bernard, C. & Ricardo, S., 2011, In: *Journal of the American Society of Nephrology*. 22, 7, p. 1213 - 1220 8 p.

In vitro investigation of renal epithelial injury suggests that primary cilium length is regulated by hypoxia-inducible mechanisms
Vergheese, E., Zhuang, J., Saiti, D., Ricardo, S. D. & Deane, J. A., 2011, In: *Cell Biology International*. 35, 9, p. 909 - 913 5 p.

Blockade of endothelial-mesenchymal transition by a Smad3 inhibitor delays the early development of streptozotocin-induced diabetic nephropathy
Li, J., Qu, X., Yao, J. J., Caruana, G., Ricardo, S. D., Yamamoto, Y., Yamamoto, H. & Bertram, J. F., 2010, In: *Diabetes*. 59, 10, p. 2612 - 2624 13 p.

Macrophages in renal development, injury, and repair
Williams, T. M., Little, M. H. & Ricardo, S. D., 2010, In: *Seminars in Nephrology*. 30, 3, p. 255 - 267 13 p.

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SCUBE1, a novel developmental gene involved in renal regeneration and repair
Zhuang, J., Deane, J. A., Yang, R-B., Li, J. & Ricardo, S. D., 2010, In: *Nephrology Dialysis Transplantation*. 25, p. 1421 - 1428 7 p.

Subfractionation of differentiating human embryonic stem cell populations allows the isolation of a mesodermal population enriched for intermediate mesoderm and putative renal progenitors
Lin, S. A., Kolle, G., Grimmond, S. M., Zhou, Q., Doust, E., Little, M. H., Aronow, B., Ricardo, S. D., Pera, M. F., Bertram, J. F. & Laslett, A. L., 2010, In: *Stem Cells and Development*. 19, 10, p. 1637 - 1648 12 p.

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Vergheese, E., Ricardo, S. D., Weidenfeld, R., Zhuang, J., Hill, P. A., Langham, R. G. & Deane, J. A., 2009, In: *Journal of the American Society of Nephrology*. 20, 10, p. 2147 - 2153 7 p.

Alterations in renal cilium length during transient complete ureteral obstruction in the mouse
Wang, L., Weidenfeld, R., Vergheese, E., Ricardo, S. D. & Deane, J. A., 2008, In: *Journal of Anatomy*. 213, 2, p. 79 - 85 7 p.

Macrophage diversity in renal injury and repair

Ricardo, S. D., Van Goor, H. & Eddy, A. A., 2008, In: *The Journal of Clinical Investigation*. 118, 11, p. 3522 - 3530 9 p.

Renal Cilia display length alterations following tubular injury and are present early in epithelial repair

Vergheese, E., Weidenfeld, R., Bertram, J. F., Ricardo, S. D. & Deane, J. A., 2008, In: *Nephrology Dialysis Transplantation*. 23, p. 834 - 841 7 p.

Characterisation and trophic functions of murine embryonic macrophages based upon the use of a Csf1r-EGFP transgene reporter

Rae, F., Woods, K., Sasmono, T., Campanale, N. V., Taylor, D., Ovchinnikov, D. A., Grimmond, S. M., Hume, D. A., Ricardo, S. D. & Little, M. H., 2007, In: *Developmental Biology*. 308, 1, p. 232 - 246 15 p.

Polycystic kidney disease and the renal cilium (Review Article)

Deane, J. A. & Ricardo, S. D., 2007, In: *Nephrology*. 12, 6, p. 559 - 564 6 p.

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Blockade of p38 mitogen-activated protein kinase and TGF-beta1/Smad signaling pathways rescues bone marrow-derived peritubular capillary endothelial cells in adriamycin-induced nephrosis

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Inhibition of p38 mitogen-activated protein kinase and transforming growth factor-beta1/Smad signaling pathways modulates the development of fibrosis in adriamycin-induced nephropathy

Li, J., Campanale, N. V., Liang, R. J., Deane, J. A., Bertram, J. F. & Ricardo, S. D., 2006, In: *American Journal of Pathology*. 169, 5, p. 1527 - 1540 14 p.

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Challen, G., Bertoncello, I., Deane, J., Ricardo, S. & Little, M., 2006, In: *Journal of the American Society of Nephrology*. 17, 7, p. 1896 - 1912 17 p.

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A stereological study of the renal glomerular vasculature in the db/db mouse model of diabetic nephropathy

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Adult stem cells in renal injury and repair

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Kramer, A., Ricardo, S. D., Kelly, D. J., Waanders, F., Van Goor, H. & Gerjan, N., 2005, In: *Journal of Pathology*. 207, p. 483 - 492 10 p.

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