## Sean J. Humphrey, PhD

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Education and Ex	perience
2016-Present	
	Senior post-doctoral fellow
	Metabolic Systems Biology lab (Prof. David James)
	School of Life and Environmental Sciences and Charles Perkins Centre
	The University of Sydney, Australia
2013-2016	
	European Molecular Biology Organization (EMBO) Long-term post-doctoral fellow
L	Department of Proteomics and Signal Transduction (Prof. Matthias Mann)
	Max-Planck Institute of Biochemistry, Martinsried, Germany
	Wax-1 lanck institute of Diochemistry, Wartinshed, Germany
2009-2013	
2009-2015	Dester of Dhilosophy (DhD)
	Doctor of Philosophy (PhD)
	School of Medicine, The University of New South Wales
	Garvan Institute of Medical Research, Sydney, Australia
<b>•••</b>	
2005-2009	
F	B.Sc. (Hons) Pharmacology, The University of New South Wales, Sydney, Australia
	First class Honours and University scholar (Rising Star scholarship)

## **Key Publications**

- Robles, M.S., <u>Humphrey, S.J.</u>, Mann, M. Phosphorylation Is a Central Mechanism for Circadian Control of Metabolism and Physiology. Cell Metabolism (2017), DOI: 10.1016/j.cmet.2016.10.004.
- Sacco, F., <u>Humphrey, S.J.</u>, Cox, J., Mischnik, M., Schulte, A., Klabunde, T., Schäfer, M., Mann, M. Glucose-regulated and drug-perturbed phosphoproteome reveals molecular mechanisms controlling insulin secretion. Nature Communications (2016), 7:13250, DOI: 10.1038/ncomms13250.
- Humphrey, S.J., James, D.E., Mann, M. Protein phosphorylation: a major switch mechanism for metabolic regulation. Trends in Endocrinology and Metabolism (2015), 26(12):676-87.
- Yang, P., <u>Humphrey, S.J.</u>, James, D.E., Yang, Y.H., Jothi, R. Positive-unlabeled ensemble learning for kinase substrate prediction from dynamic phosphoproteomics data. Bioinformatics (2015) Sep 22. pii: btv550.
- Humphrey, S.J., Azimifar, B., Mann, M. High-throughput phosphoproteomics reveals in vivo insulin signaling dynamics. Nature Biotechnology (2015), 33(9):990-5.
- Yang, G., Murashige, D.S., <u>Humphrey, S.J.</u>, James, D.E. A Positive Feedback Loop between Akt and mTORC2 via SIN1 Phosphorylation. Cell Reports (2015), 12(6):937-43.
- Humphrey, S.J., Yang, G., Yang, P., Fazakerley, D.J., Stöckli, J., Yang, J.Y., James, D.E. Dynamic Adipocyte Phosphoproteome Reveals that Akt Directly Regulates mTORC2. Cell Metabolism (2013), 17(6):1009-20.