

Dr Vicki Smith PhD

Research Fellow

Endocrinology, Diabetes and Metabolism

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About

Vicki Smith is an MRC Post-Doctoral Research Fellow working with Professor Chris McCabe and Professor Jayne Franklyn in the Centre for Endocrinology, Diabetes and Metabolism. Vicki's current research focuses on increasing radioiodine efficacy in the treatment of thyroid cancer.

Vicki has authored a number of publications and has presented data at both national and international conferences on Endocrinology and Thyroidology. Her research has attracted major grants from the MRC, British Thyroid Foundation and Society for Endocrinology, and she has won a number of awards including the Society for Endocrinology Young Endocrinologist Prize Lecture 2010 and the Journal of Molecular Endocrinology Prize 2013.

Qualifications

PhD in Medicine, University of Birmingham (2008)

BSc (Hons) in Medical Biochemistry, University of Leicester (2000)

Biography

Vicki Smith qualified with a BSc (Hons) in Medical Biochemistry from the University of Leicester in 2000. She then spent over four years working for a biopharmaceutical company in Oxfordshire, identifying potential drug targets using genetic analyses of large patient cohorts.

Vicki subsequently moved to Birmingham to study for a PhD in Medicine, under the supervision of Professors Chris McCabe and Jayne Franklyn, which she completed in 2008. Since then she has continued to work in the Centre for Endocrinology, Diabetes and Metabolism as an MRC Post-Doctoral Research Fellow.

Vicki has a growing list of peer-reviewed research papers and reviews, and has presented her data at conferences both nationally and internationally. Her research has attracted a number of major grants and awards.

Within the University, Vicki has an active teaching role and is on the Postdoctoral / Early Researcher Career Development And Training (PERCAT) committee as post-doctoral representative for the School of Clinical and Experimental Medicine.

Externally, Vicki is an active member of the Society for Endocrinology and currently sits on the Science Committee.

Teaching

- MBChB
- BMedSc
- Clinical Sciences BMedSc (Intercalated degree)
- MRes Endocrinology
- BDS

Research

- Molecular mechanisms involved in the pathogenesis of thyroid disease
- Regulation of transporters that mediate thyroid hormone biosynthesis and secretion
- Investigation of the role of the proto-oncogene PTTG-binding factor (PBF) in thyroid cancer
- Identification of methods to overcome the repression of the sodium iodide transporter (NIS) by PBF to improve radioiodine treatment in thyroid and other tumours

Other activities

Post Doctoral/ Early Researcher, Career Development and Training (PERCAT) committee member (2013-present)

Society for Endocrinology Science Committee member (2013 – present)

Membership of societies:

- Society for Endocrinology 2004 – present
- British Thyroid Association 2011 – present
- American Thyroid Association 2012 – present
- European Society for Endocrinology 2013 – present

Publications

Smith VE, Sharma N, Watkins RJ, Read ML, Ryan GA, Kwan PP, Martin A, Watkinson JC, Boelaert K, Franklyn JA, McCabe CJ. (2013) Manipulation of PBF/PTTG1IP phosphorylation status; a p therapeutic strategy for improving radioiodine uptake in thyroid and other tumors. **Journal of Clinical Endocrinology & Metabolism**. (Under revision)

Read ML, Seed RI, Sharma N, Fong JCW, Kwan PP, **Smith VE**, Watkins RJ, Stratford AL, Dixon OM, Lewy GD, Wakelam MJO, Ismail T, Kim DS, Watkinson JC, Boelaert K, Franklyn JA, Turnell AS, McCabe CJ. (2013) Regulation of p53 stability and function by the proto-oncogene PTTG1-Binding Factor (PBF/PTTG1IP). **Oncogene**. (Under revision)

Lewy GD, Ryan GA, Read ML, Fong JCW, Seed RI, Sharma N, **Smith VE**, Kwan PP, Stewart SL, Warfield A, Melmed S, Eggo MC, Franklyn JA, McCabe CJ, Boelaert K. Regulation of Pituitary Tumor Transforming Gene (PTTG) expression and phosphorylation in thyroid cells. **Endocrinology**. (Under revision)

Smith VE, Read ML, Turnell AS, Sharma N, Lewy GD, Fong JCW, Seed RI, Kwan P, Ryan G, Mehanna H, Chan SY, Darras VM, Boelaert K, Franklyn JA, McCabe CJ. (2012) PTTG-binding factor (PBF) is a novel regulator of the thyroid hormone transporter MCT8. **Endocrinology**. 153(7):3526-36.

Research Highlight for Basic Research in **Nature Reviews Endocrinology** 8, 384 (July 2012)

Read ML, Lewy GD, Fong JC, Sharma N, Seed RI, **Smith VE**, Gentilin E, Warfield A, Eggo MC, Knauf JA, Leadbeater WE, Watkinson JC, Franklyn JA, Boelaert K, McCabe CJ. (2011) Proto-oncogene PBF/PTTG1IP regulates thyroid cell growth and represses radioiodide treatment. **Cancer Research**. 1;71(19):6153-64.

Watkins RJ, Read ML, **Smith VE**, Sharma N, Reynolds GM, Buckley L, Doig C, Campbell MJ, Lewy G, Eggo MC, Loubiere LS, Franklyn JA, Boelaert K, McCabe CJ. (2010) Pituitary tumor transforming gene binding factor: a new gene in breast cancer. **Cancer Research**, 1;70(9):3739-49.

Smith VE, Read ML, Turnell AS, Watkins RJ, Watkinson JC, Lewy GD, Fong JC, James SR, Eggo MC, Boelaert K, Franklyn JA, McCabe CJ. (2009) A novel mechanism of sodium iodide symporter repression in differentiated thyroid cancer. **Journal of Cell Science**, 122(Pt 18):3393-402.

Smith VE*, Boelaert K*, Stratford AL, Kogai T, Tannahill LA, Watkinson JC, Eggo MC, Franklyn JA, McCabe CJ. *Joint First Author. (2007) PTTG and PBF repress the human sodium iodide symporter. **Oncogene**. 26(30):4344-56.

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