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EDUCATION

- 1994 **B.S. Applied Biology**
Brunel University, London, UK
- 1998 **Ph.D. Molecular Endocrinology**
University of Cambridge, Cambridge, UK
Thesis Title: "Nutritional Regulation of Muscle Gene Expression"

POSTGRADUATE TRAINING AND FELLOWSHIP APPOINTMENTS

- 1998-2000 **Postdoctoral Fellow**
Howard Hughes Medical Institute
Department of Genetics
University of Pennsylvania School of Medicine
- 2000-2002 **Postdoctoral Scientist**
Rohm & Haas Company
Spring House, PA

PROFESSIONAL EXPERIENCE

- 2003-2008 **Technical Director**, Functional Genomics Core Facility
Institute of Diabetes, Obesity and Metabolism (IDOM)
Departments of Genetics and Endocrinology
University of Pennsylvania School of Medicine
Philadelphia, PA
- 2008-Present **Principal Investigator**, Center of Microbial Pathogenesis
The Research Institute at Nationwide Children's Hospital
Columbus, OH

FACULTY APPOINTMENTS

- 2008-present **Research Assistant Professor**
The Ohio State University
Columbus, OH

HOSPITAL AND/OR ADMINISTRATIVE APPOINTMENTS

2008-present **Director**, Biomedical Genomics Core Facility
The Research Institute at Nationwide Children's Hospital
Columbus, OH

MEMBERSHIPS IN PROFESSIONAL AND SCIENTIFIC SOCIETIES AND OTHER PROFESSIONAL ACTIVITIES

2003-2008 Beta Cell Biology Consortium (BCBC)
Vanderbilt University, Nashville, TN

PEER REVIEWED PAPERS

- Tuteja G, Jensen ST, **White P**, Kaestner KH (2008). Cis-regulatory modules in the mammalian liver: composition depends on strength of Foxa2 consensus site. *Nucleic Acids Research*; 36(12):4149-57.
- White P**, Lee May C, Lamounier RN, Brestelli JE, Kaestner KH (2008). Defining pancreatic endocrine precursors and their descendants. *Diabetes*; 57(3): 654 -668.
- Gao N, **White P**, Doliba N, Golson ML, Matschinsky FM, Kaestner KH. (2007). Foxa2 controls vesicle docking and insulin secretion in mature Beta cells. *Cell Metabolism*; 6(4):267-79.
- Keller DM, McWeeney S, Arsenlis A, Drouin J, Wright CV, Wang H, Wollheim CB, **White P**, Kaestner KH, Goodman RH (2007). Characterization of pancreatic transcription factor Pdx-1 binding sites using promoter microarray and serial analysis of chromatin occupancy. *Journal of Biological Chemistry*; 282(44):32084-92.
- Gupta RK, Gao N, Gorski RK, **White P**, Hardy OT, Rafiq K, Brestelli JE, Chen G, Stoeckert CJ Jr, Kaestner KH. (2007). Expansion of adult beta-cell mass in response to increased metabolic demand is dependent on HNF-4alpha. *Genes and Development*; 21(7):756-69
- Ku HT, Chai J, Kim YJ, **White P**, Purohit-Ghelani S, Kaestner KH, Bromberg JS (2007). Insulin-expressing colonies developed from murine embryonic stem cell-derived progenitors. *Diabetes*; 56(4):921-9
- Hardy OT, Hohmeier HE, Becker TC, Manduchi E, Doliba NM, Gupta RK, **White P**, Stoeckert CJ Jr, Matschinsky FM, Newgard CB, Kaestner KH (2007). Functional genomics of the β -cell: SCHAD regulates insulin secretion independent of K⁺ currents. *Molecular Endocrinology*; 21(3):765-73.
- Mazzarelli JM, Brestelli J, Gorski RK, Liu J, Manduchi E, Pinney DF, Schug J, **White P**, Kaestner KH, Stoeckert CJ Jr (2007). EPConDB: a web resource for gene expression related to pancreatic development, beta-cell function and diabetes. *Nucleic Acids Research*; 35(Database issue):D751-5.
- Mazzarelli JM, **White P**, Gorski R, Brestelli J, Pinney DF, Arsenlis A, Katokhin A, Belova O, Bogdanova V, Elisafenko E, Gubina M, Nizolenko L, Perelman P, Puzakov M, Shilov A, Trifonoff V, Vorobjeva N, Kolchanov N, Kaestner KH, Stoeckert CJ Jr (2006). Novel genes identified by manual annotation and microarray expression analysis in the pancreas. *Genomics* 88(6):752-61.
- Burkhardt BR, Greene SR, **White P**, Wong RK, Brestelli JE, Yang J, Robert CE, Brusko TM, Wasserfall CH, Wu J, Atkinson MA, Gao Z, Kaestner KH, Wolf BA (2006). PANDER-induced cell-death genetic networks in islets reveal central role for caspase-3 and cyclin-dependent kinase inhibitor 1A (p21). *Gene* 2006 369:134-141.

- White P**, Brestelli JE, Kaestner KH, Greenbaum LE (2005). Novel approaches to time course analysis of temporally regulated genes during liver regeneration after partial hepatectomy in the mouse. *Journal of Biological Chemistry*; 280(5): 3715-3722.
- White P**, Liebhaber SA, Cooke NE (2002). 129X1/SvJ mouse strain has a novel defect in inflammatory cell recruitment. *The Journal of Immunology*; 168:869-874
- White P**, Burton KA, Fowden AL and Dauncey MJ (2001). Developmental expression analysis of thyroid hormone receptor isoforms reveals new insights into their essential functions in cardiac and skeletal muscles. *FASEB Journal*; 15(8):1367-1376.
- Dauncey MJ, **White P**, Burton KA, and Katsumata M (2001). Nutrition-hormone receptor-gene interactions: implications for development and disease. *Proceedings of the Nutrition Society*; 60(1):63-72.
- White P** and Cooke NE (2000). The multifunctional properties and characteristics of Vitamin D Binding Protein. *Trends in Endocrinology and Metabolism*, 11(8):320-327.
- White P**, Cattaneo D and Dauncey MJ (2000). Postnatal regulation of myosin heavy chain isoform and metabolic enzyme expression by nutrition. *British Journal of Nutrition*; 84(2):185-194.
- Katsumata M, Cattaneo D, **White P**, Burton KA and Dauncey MJ (2000). Growth hormone receptor gene expression in porcine skeletal and cardiac muscles is selectively regulated by postnatal undernutrition. *Journal of Nutrition (USA)*; 130: 2482-2488.
- White P** and Dauncey MJ (1999). Differential expression of thyroid hormone receptor isoforms is strikingly related to cardiac and skeletal muscle phenotype during postnatal development. *Journal of Molecular Endocrinology*; 23(2):241-254.
- Dauncey MJ, Burton KA, **White P**, Harrison AP, Gilmour RS, Duchamp C and Cattaneo D (1994). Nutritional regulation of growth hormone receptor gene expression. *FASEB Journal*; 8(1):81-88.

BOOK CHAPTERS AND PUBLISHED ARTICLES

- White P** & Kaestner KH (2008). Gene expression analysis in diabetes research. In: 'Methods of Molecular Medicine: Type 2 Diabetes'; *In Press*. The Humana Press Inc (ed Stocker, C).
- Dauncey MJ, Katsumata M and **White P** (2004). Nutrition, hormone receptor expression, and gene interactions: implications for development and disease. In: 'Muscle Development of Livestock Animals: Physiology, Genetics and Meat Quality'; pp. 105-124. CAB International Publishing (eds. te Pas MFW, Everts ME & Haagsman HP)
- Dauncey MJ and **White P** (2004). Nutrition and cell communication: Insulin signalling in development, health and disease. *Recent Research Developments in Nutrition*; 6: 49-81. Research Signpost (ed. Pandalai, SG)
- Murphy ML and **White P** (2000). Immunology 2000: The American Association of Immunologists and Clinical Immunology Society joint annual meeting. *Investigational Drugs Weekly Highlights (Current Drugs)*; 23:46-49.
- White P** and Dauncey MJ (1998). An enhanced method for RNase protection assays using SeeDNA Co-precipitant. *Life Science News*; 1:23.
- White P**, Burton KA, Cattaneo D, Harrison AP and Dauncey MJ (1995). Biotechnological approach to the study of the interactions between nutritional status and animal growth. In: 'State of the Art of Italian Research in the Field of Biotechnologies Applied to Veterinary Medicine'; pp. 271-279. Breshia, Italy.

PRESENTATIONS AND PUBLISHED ABSTRACTS

- Bochkis IM, Rubins NE, **White P**, Furth EE, Friedman JR and Kaestner KH (2008). Foxa2 regulates bile acid metabolism and prevents ER stress in the liver. Forkhead Transcription Factor Networks in Development, Signaling, and Disease Keystone Symposia, Midway, UT.
- White P**, Smirnova OS, Fox AJ, Tuteja G and Kaestner KH (2007). The Functional Genomics Core. Annual IDOM Symposium & Spring Genomics Workshop, University of Pennsylvania, Philadelphia, PA.
- White P**, Tuteja G, Schug J, Gorski RK, Stoeckert CJ and Kaestner KH (2006). The Mouse PromoterChip BCBC-5: A Powerful Tool for Genome-wide Location Analysis. IBC Chips-to-Hits Symposia, Boston, MA.
- White P**, A. Arsenlis, O. Smirnova and Kaestner KH (2006). The BCBC Functional Genomics Core. Beta Cell Biology Consortium Investigator Retreat, Boston, MA.
- White P**, Brestelli JE, Arsenlis A, Gorski RK, Chen G, He H, Mazzarelli JM, Manduchi E, Stoeckert CJ Jr. and Kaestner KH (2005). The human and mouse PancChips: high throughput gene expression analysis of the endocrine pancreas. Diabetes Mellitus Keystone Symposia, Keystone, CO.
- White P**, Brestelli JE, Gorski RK, Arsenlis A, Lee PP, Pizzaro A, Stoeckert CJ Jr. and Kaestner KH (2003). PancChip 5.0: high throughput gene expression analysis of the endocrine pancreas. Oral and poster presentations at the Beta Cell Biology Consortium Investigator Retreat, Atlanta, GA.
- Palli SR, Kapitskaya M, Kumar M, Kumar P, **White P**, Hoff III H, and Cress DE (2002). Ecdysone receptor-based inducible gene regulation systems for simultaneous regulation of two genes. *Molecular Therapy*; 5(5):S169-512.
- Dauncey MJ and **White P** (2002) Nutrition-hormone receptor-gene interactions in health and development. European Association of Animal Production Symposium, Cairo, Egypt.
- White P**, Murphy ML, Farrell JP, Hunter CA, Liebhaber SA and Cooke NE (2000). The absence of vitamin D binding protein (DBP) slows immune responses during *Leishmania donovani* infection *in vivo*. *FASEB Journal*; 14(6):A1031-91.23. Presentation at the American Association of Immunologists meeting, May 2000, Seattle, USA.
- Dauncey MJ, **White P** and Burton KA (2000). Nuclear thyroid hormone receptors and nutrition: developmental and functional significance. Rank Prize Funds Symposium, UK.
- White P** and Dauncey MJ (1998). Postnatal undernutrition markedly upregulates cardiac $\alpha 1$ and $\alpha 2$ thyroid hormone receptor gene expression. *Proceedings of the Nutrition Society*; 57(1):79A. Combined oral and poster presentation at the Nutrition Society meeting, Newcastle, UK. Awarded the Society prize for the best student poster communication.
- White P**, Lachuer J, Duchamp C and Dauncey MJ (1997). Porcine thyroid hormone receptor isoforms: cloning and expression in liver and functionally distinct muscles. *Journal of Endocrinology*; 152:P306. Poster presentation at the 16th joint meeting of the British Endocrine Societies, Harrogate, UK.
- Katsumata M, Burton KA, **White P**, Cattaneo D and Dauncey MJ (1997). Growth hormone receptor gene expression is related to metabolic and contractile properties of muscle. *Journal of Endocrinology*; 152:P125.