

## Publications – Dr Sarah Gray

### Submitted Peer-Reviewed Papers

Adams BA\*, Gray SL\*, Isaac ER, Bianco AC, Vidal-Puig AJ, Sherwood NM. Feeding and metabolism in mice lacking pituitary adenylate cyclase activating polypeptide (PACAP). Submitted to *Endocrinology* April 19, 2007 MS#EN-07-0515.

### Peer- Reviewed Papers

Payne VA, Au W-S, Gray SL, Dalla Nora E, Rahman SM, Sanders R, Hadaschick D, Friedman JE, O'Rahilly S, Rochford JJ. Sequential regulation of DGAT2 expression by C/EBP $\beta$  and C/EBP $\alpha$  during adipogenesis. *J Biol Chem*, In Press manuscript#Z7:02871.

Allais A, Burel D, Isaac ER, Gray SL, Basil le M, Ravni A, Sherwood NM, Vaudry H, Gonzalez BJ. 2007 Altered cerebellar development in mice lacking pituitary adenylate cyclase-activating polypeptide. *Eur J Neurosci* In press.

Medina-Gomez G, Gray SL, Yetukuri L, Shimomura K, Virtue S, Campbell M, Curtis RK, Jimenez-Linan M, Blount M, Yeo GS, Lopez M, Seppanen-Laakso T, Ashcroft FM, Oresic M, Vidal-Puig A. PPAR $\gamma$  2 prevents lipotoxicity by controlling adipose tissue expandability and peripheral lipid metabolism. *PLoS Genet*. 2007 Apr 27;3(4):e64Gray SL\*, Dalla Nora E\*. Backlund E, Manieri M, Virtue S, Noland RC, O'Rahilly S, Cortright RN, Cinti S, Cannon B, Vidal-Puig A. 2006 Decreased brown adipocyte recruitment and thermogenic capacity in mice with impaired PPAR $\gamma$  (P465L PPAR $\gamma$ ) function. *Endocrinology* 147( 12): 5708-14. ♦ authors contributed equally

Gray SL, Dalla Nora E, Grosse J, Manieri M, Stoeger T, Medina-Gomez G, Burling K, Wattler S, Russ A, Yeo GSK, Chatterjee VK, O'Rahilly S, Voshol P, Cinti S, Vidal-Puig A. Leptin deficiency unmasks the deleterious effects of impaired PPAR $\gamma$  function (P465L PPAR $\gamma$ ) in mice. *Diabetes* 55:In Press.

George S, Rochford JJ, Wolfrum C, Gray SL, Schinner S, Wilson JC, Soos MA, Murgatroyd PR, Williams RM, Acerini CL, Dunger DB, Barford D, Umpleby AM, Wareham NJ, Davies HA, Schafer AJ, Stoffel M, O'Rahilly S, Barroso I. 2004 A family with severe insulin resistance and diabetes due to a mutation in AKT2. *Science* 304:1325-1328.

Gray SL, Yamaguchi N, Vencova P, Sherwood NM. 2002 Temperature sensitive phenotype in pituitary adenylate cyclase activating polypeptide (PACAP) null mice. *Endocrinology* 143 (10):3946-3954.

Gray SL, Adams BA, Warby CM, von Schalburg KR, Sherwood NM. 2002 Transcription and translation of the salmon gonadotropin-releasing hormone (GnRH) genes in brain and gonads of sexually maturing rainbow trout (*Oncorhynchus mykiss*). *Biology of Reproduction* 67(5): 1621 -1627.

Gray SL\*, Cummings KJ\*, Jirik FR, Sherwood NM. 2001 Targeted disruption of the pituitary adenylate cyclase activating polypeptide (PACAP) gene results in early postnatal death associated with dysfunction of lipid and carbohydrate metabolism. *Molecular Endocrinology* 15(10): 1739-1747. • authors contributed equally

Cummings KJ\*, Gray SL\*, Simmons CJT, Kozak, Sherwood NM. 2001 Mouse pituitary adenylate cyclase-activating polypeptide (PACAP): gene, expression and novel splicing. *Molecular and Cellular Endocrinology* 192: 133-145. \* authors contributed equally

## **Review Articles**

Gray SL and Vidal-Puig A. Adipose tissue expandability in the maintenance of metabolic homeostasis. *Nutrition Reviews* In Press.

Gray SL, Dalla Nora E and Vidal-Puig A. 2005. Mouse models of PPAR $\gamma$  deficiency: dissecting PPAR $\gamma$ 's role in metabolic homeostasis. *Biochemical Society Transactions* 33:1053-1058.

Sherwood NM, Krueckl SL, Fradinger EA, Erdhardt NM, Cummings KJ, Gray SL and Adams BA. 2001. Molecular evolution and knockout of the PACAP gene.

## **Book Chapters**

Medina-Gomez G, Gray SL, Vidal-Puig A. Role of PPARs in the pathogenesis of Metabolic Syndrome. In: *The Metabolic Syndrome at the beginning of the XXIst Century: A genetic and molecular approach*, (eds. Rios MS, Caro J, Carrara R, Gutierrez-Fuentes JA) Elsevier Publishing, Madrid, Spain, p253-269.

Sherwood NM, Gray SL, Cummings KJ. 2003. Consequences of PACAP gene knockout. In: *Pituitary Adenylate Cyclase-Activating Polypeptide* (eds. Vaudry H, Arimura A) Kluwer Academic Publishers, Norwell, MA, p347-360.

