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NAME Sylvie Hauguel-de Mouzon	POSITION TITLE Professor, Reproductive Endocrinology Research Director, INSERM
eRA COMMONS USER NAME shdemouzon	

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
University of Paris VII, France	MS	1977	Biochemistry/Physiology
University of Paris VII, France	PhD	1980	Biochemistry/Physiology
University of Paris VII, France	DSc	1985	Biochemistry

A. Positions and Honors**Positions and employment**

1979 - 1980	Research Fellowship Cochin Hospital, Maternite Baudeloque, Paris
1981 - 1982	Postdoctoral Fellow, Cochin Hospital, Maternite Baudelocque, Paris
1982 - 1983	Postdoctoral Fellow, College of France, University of Paris V
1987 - 1988	Postdoctoral Fellow, Harvard Medical School, Joslin Diabetes Center
2001 - 2002	Visiting Professor, Department of Genetics, Case Western Reserve University
2002 - 2003	Visiting Professor, Department of Reproductive Biology, Case Western Reserve University
2005 -	Professor, Reproductive Biology, Case Western Reserve University

Other experience and professional membership:**International service**

1993-Current	Member of European Placental Group (EPG)
1997-Current	Delegate for France of Diabetes in Pregnancy Study Group (DPSG) of European Association for the Study of Diabetes
2002-2005	Executive committee EPG representative at International Federation of Placental Associations (IFPA)
2003-Current	MetroHealth Medical Center: Resident Research Project OBGYN review board
2003-Current	Pregnancy Section Planning subcommittee of American Diabetes Association
2005-2006	Vice chair DPSG
2005-Current	MetroHealth Medical Center, Rammelkamp Research Institute board of Director
2006-Current	Lepow day Review board for basic research: Case Western Reserve University
2006-2007	Scientific Sessions planning committee annual meeting of American Diabetes Association (ADA)
2006-2007:	Chair: DPSG
2006-2008	Chair: Interest Group on Pregnancy & Reproductive Health of ADA

Service at National Institute of Medical Research INSERM

1992-1995	INSERM - Department of Social and Economic Affairs (DPES): Board of Nutrition committee
1994-1995	INSERM-INRA Neutraceutical Division: Associate Director
1995-1998	INSERM - French Ministry of Research (MESR): Aliment-Demain program consultant
1995-1999	INSERM: CNERNA Council for Nutritional Advisory board
1997	National Institute of Agronomy (INRA): Faculty Search committee
1999-2000	University Paris V- Hopital Cochin: Scientific Review Committee for Clinical Research

Memberships

1986-Current European Placental Group (EPG)
1989-Current American Diabetes Association (ADA)
1989-Current Association Francaise pour l'Etude du Diabete et des Maladies Metaboliques (ALFEDIAM)
1993-Current Groupe d'Etude sur le Placenta (GREP)
1997-Current Association Diabete et Grossesse
2003-Current Diabetes Association of Greater Cleveland (DAGC)
2004-Current Placental Association of the Americas (PAA)
2004-Current Perinatal Research Society
2006-Current Society for Gynecologic Investigation

Honours

1980 French Ministry of Health (DGRST): High Honor Award for post-doctoral studies
1983 Surgical procedure in rodents: board certified
1983 Awarded Associate Professor with Tenure at INSERM
1993 Awarded Research Director with Tenure at INSERM
1996 French Foundation for Medical Research: Excellence in PHD training
1999 French Foundation for Medical Research: Excellence in PHD training
2004 Awarded Professor Reproductive Biology, Case Western Reserve University
2010 Norbert Freinkel Award for Research in Diabetes and Pregnancy

B. Peer-reviewed publications (selected in chronological order)

1. Xing A, Boileau P, Caüzac M, Challier JC, Girard J, Hauguel-de Mouzon S. Comparative in vivo approaches for selective adenovirus-mediated gene delivery to the placenta. *Human Gene Ther* 2000; 11, 167-177.
2. Lepercq J, Guerre-Millo M, Vidal H, Cauzac M, Timsit J, Hauguel-de Mouzon S. Prenatal leptin production: Evidence that fetal adipose tissue produces leptin. *J Clin Endocrinol Metab* 2001; 86:2409-2413.
3. Hauguel-de Mouzon S, Shafir E. Metabolic and endocrine function in normal and diabetic placenta. *Placenta* 2001; 22:619-627.
4. Lepercq J, Taupin P, Dubois-Laforgue D, Duranteau L, Boitard C, Landais P, Hauguel-de Mouzon S, Timsit J. Heterogeneity of fetal growth in type 1 diabetic pregnancy. *Diabetes Met* 2001; 27:339-344.
5. Boileau P, Cauzac C, Pereira MA, Girard J, Hauguel-de Mouzon S. Dissociation between insulin-mediated signaling pathways and biological effects in placental cells: role of PKB and MAPKinase phosphorylation. *Endocrinology* 2001; 142:3974-3979.
6. Grosfeld A, Turban S, Andre J, Cauzac M, Challier JC, Hauguel-de Mouzon S, Guerre-Millo M. Transcriptional regulation of the human leptin gene by hypoxia. *FEBS Letters* 2001; 502:122-126.
7. Hauguel-de Mouzon S, Lepercq J. Placental leptin and gestational pathologies. *Gynecol Obstet Fertil* 2001; 29:534-537.
8. Kirwan JP, Hauguel-de Mouzon S, Lepercq J, Challier JC, Huston-Presley L, Friedman JE, Kalhan SC, Catalano PM. TNF-alpha is a primary mediator of insulin resistance in human pregnancy. *Diabetes* 2002; 51:2207-2213.
9. Grosfeld A, André J, Hauguel-de Mouzon S, Berra E, Pouyssegur J, M. Guerre-Millo. Hypoxia-inducible factor 1 (HIF-1) transactivates the human leptin gene promoter. *J Biol Chem* 2002; 277:42953-42957.
11. Lepercq J, Guerre-Millo M, Andre J, Cauzac M, Hauguel-de Mouzon S. 2003 Leptin: a potential marker of placental insufficiency. *Obstet Gynecol* 2003; 55:151-155.
12. Challier JC, Galtier M, Bintein T, Cortez A, Lepercq J, Hauguel-de Mouzon S. Placental leptin receptor isoforms in normal and pathological pregnancies. *Placenta* 2003; 56:92-99.
13. Cauzac M, Czuba D, Girard J, Hauguel-de Mouzon S. Transduction of leptin growth signals in placental cells is independent of JAK-STAT activation. *Placenta* 2003; 24:378-384.
14. Gorovitz N, Cui L, Busik JV, Ranalletta M, Hauguel de-Mouzon S, Charron MJ. Regulation of Hepatic GLUT8 Expression in Normal and Diabetic Models. *Endocrinology* 2003; 144:1703-1711.
15. Radaelli T, Varastehpour A, Catalano P, Hauguel-de Mouzon S. Gestational Diabetes Induces placental genes for chronic stress and inflammatory pathways. *Diabetes* 2003; 52:2951-2958

16. Knofler M, Sooranna SR, Daoud G, Whitley GS, Markert UR, Xia Y, Cantiello H, Hauguel-de Mouzon S. Trophoblast signalling: knowns and unknowns. *Placenta* 2005; 26 Suppl A: S49-51.
17. Radaelli T, Uvena-Celebrezze J, Minium J, Huston-Presley L, Catalano P. Hauguel-de Mouzon S. Maternal interleukin-6, a marker of fetal growth and adiposity. *J S Gynecol Invest* 2006; 13:53-57.
18. Varastehpour A, Radaelli T, Minium J, Herrera E, Catalano PM, Hauguel-de Mouzon S. Activation of phospholipase A2 is associated with generation of placental lipid signals and fetal obesity. *J Clin Endocrinol Metab* 2006; 91:248-255.
19. Catalano P, Hoegh, Minium J, Huston-Presley L, Bernard S, Kalhan S, Hauguel-de Mouzon S. Adiponectin in pregnancy: Implication for pregnancy specific regulation of glucose and lipid metabolism. *Diabetologia* 2006; 49:1677-1685.
20. Shields BW, Spyer G, Slingerland AS, Bridget A. Knight BA, Sian E, Clark PM, Hauguel-de Mouzon S., Hattersley AT. Mutations in the glucokinase gene of the fetus result in reduced placental weight. *Diabetes Care* 2008, 31(4):753-757.
21. Challier JC, Bintein T, Basu S., Hotmire K., Minium J, Catalano PM, Hauguel-de Mouzon S. Pregnancy promotes macrophage accumulation and inflammation in the placenta. *Placenta*. 2008 29(3):274-81.
22. Pinar H, Basu S., Hotmire, Laffineuse, L, Presley, L. K., Carpenter M.,, Catalano PM., Hauguel-de Mouzon S. High molecular weight multimer complexes and vascular expression contribute to high adiponectin in the fetus. *J. Clin. Endocrinol. Metab.* 2008; 93:2885-90.
23. Basu S., Laffineuse L., Presley L., Minium J., Catalano PM, Hauguel-de Mouzon S. In utero gender dimorphism of adiponectin reflects insulin sensitivity and adiposity of the fetus. *Obesity* 2009; 17:1144-1149.
24. Catalano PM, Presley L, Minium J, Hauguel-de Mouzon S. Fetuses of obese mothers develop insulin resistance in utero. *Diabetes care* 2009; 32:1076-1080.
25. Radaelli T, Lepercq J, Varastehpour A., Basu S., Catalano PM, Hauguel-de Mouzon S Differential regulation of genes for feto-placental lipid pathways in pregnancy with gestational and type 1 diabetes *Am JOG* 2009; 201:e201-209.

C. Research Support

Ongoing Research Support

NIH , R21 PENDING:

Hauguel-de Mouzon (PI)

“Excess nutrient availability: impact on fetal adipogenic capacity”

RO1 HD057236Z

Hauguel-de Mouzon (co-PI)

7/1/09-7/31/11

Omega-3 supplementation in pregnancy decreases inflammation and fetal obesity. This is an intervention study in pregnant obese women to determine the molecular mechanisms of omega-3 action on maternal insulin resistance, placental inflammation and body composition in the neonate.

NIH RO1HD22965

Catalano (PI)

4/1/07-3/31/12

“Insulin resistance, glucose and lipid metabolism in pregnancy”

The overall goal of this project is to characterize the mechanism by which energy metabolism in the pre-gravid state and in early pregnancy relates to increased fetal growth/adiposity among obese women. The effect of maternal obesity on placental growth and gene expression is evaluated *in vivo* and *in vitro*. These studies will contribute to the understanding of maternal-placental interactions in early pregnancy.

Completed Research Support

1-04-TLG-01 American Diabetes Association

Hauguel-de Mouzon (PI)

01/01/04-12/31/06

“Role of placental leptin in the regulation of fetal growth and adiposity”

The primary goals of this project are to identify the source of increased leptin in pregnancy, the regulatory factors of the placental leptin gene and the mechanisms through which increased placental leptin translates into excess fetal adiposity.

484-04 Diabetes Association of Greater Cleveland

Hauguel-de Mouzon (PI)

07/01/04-06/30/06

“Gene expression profile of white adipose tissue during pregnancy and diabetes” The overall goal of this project was to identify maternal factors responsible for the increase in insulin resistance in gestational diabetes.

INSERM Intramural funding

Hauguel-de Mouzon (PI)

01/01/83-12/31/03