CURRICULUM VITAE

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Education

10/70-7/75	Maîtrise (M.Sc.) in Biochemistry, University of Geneva, Switzerland
10/76-10/80	Thèse de Doctorat (Ph. D.) in Biochemistry (01/80) University of Geneva (Prof. B. Jeanrenaud)

Post-doctoral and Complementary Training

02-80/10-80	Assistant, (PDF)Laboratoire de Recherches Médicales (Dr. B. Jeanrenaud, Director, University of Geneva
11-80/06-84	Maître-Assistant, (PDF) Division de Biochimie Clinique (Dr. A.E. Renold,Director), U Geneva
07-84/12-85	Research Associate, Diabetes Center (Lab. of Dr. F.M. Matschinsky), University of Pennsylvania, Philadelphia, PA, USA
01-86/10-87	Research Assistant Professor Diabetes Center (Lab. of Dr F.M. Matschinsky), University of Pennsylvania, Philadelphia, PA
11-87/03-89	Research Assistant Professor Division de Biochimie Clinique U Geneva

Fellowships and Career Development Awards

06/84 à 06/86	Bourse de chercheur avancé (Post doctoral fellowship) , Swiss National ScienceFoundation
07/86 à 07/87	Career development award , American Diabetes Association
08/87 à 06/94	Career development award , Cloëtta Foundation of Switzerland

Academic Apointments

04-89/06-94	Maître d'Enseignement et de Recherche (Assistant Professor) Department of Medicine, University of Geneva
07-94-06-97	Professeur Agrégé (Associate Professor) Department of Nutrition, University of Montreal
07-97 present	Professeur Titulaire (Full Professor) Department of Nutrition, University of Montreal
07-94 present	Adjunct Professor Department of Biochemistry, University of Montreal
04-05 present	Canadian Chair in Diabetes and Metabolism (Tier 1)

Other Apointments

2000-2002	Scientific Advisory Board, H3 Pharma Inc. Montreal
2002-present	Scientific Advisory Board, Innodia Inc. Montreal.
2001-present	Associate Director, McGill and U. Montreal JDRF Diabetes Center for ß-cell replacement
2003-2004	Acting Chief Scientific Officer, Innodia Inc. Montreal
2004-present	Director, Montreal Diabetes Research Center

Scientific Committees

-1994-1997:	*Juvenile Diabetes Foundation International*;
-1994-1997:	*Canadian Diabetes Association*
-1996-1997:	*Cancer Research Society of Montreal*
-1999-2001	*Juvenile Diabetes Foundation International*
-1999-2005	*MRC/CIHR, Ad hoc, Nutrition and Metabolism study section*
-2001-2006	*NIH, Ad hoc, Metabolism/CADO study sections*

Editorial Board

-Associate Editor of Diabetologia (1997-1999)
-Diabetes (1998-2001 and 2001-2004)
-American Journal of Physiology (2001-2003, 2006-2008)

Honors and Awards

-Young Investigator Award of the "Federation of European Endocrine Societies". Amsterdam, June 1994.
-Canadian Institute of Health Research Scientist (1998-2003)
-Member of the *ad hoc* working group of the NIH (US) that evaluates progress made according to the Diabetes Research Working Group strategic plan and makes recommendations for future initiatives (2001).
-Canadian Foundation for Innovation (2004): MP, PI. Infrastructure grant of $ 16M to build a Diabetes Center in Montreal.
-Genome Qc project (2004) to study the genetics of type 2 diabetes ($ 16,3M). MP, co Director.
-Canadian Foundation for Innovation (2005), Canadian Chair in Diabetes and Metabolism

Societies Memberships:

-American Diabetes Association
-Canadian Diabetes Association
-Canadian Society for Nutritional Sciences
-European Association for the Study of Diabetes
-Canadian Cancer Etiology Research Network

MARC PRENTKI BIBIBLIOGRAPHY

Articles in peer-reviewed Journals

1) **Prentki, M**., Chaponnier, C., Jeanrenaud, B., and Gabbiani, G. Actin microfilaments, cell shape and secretory processes in isolated rat hepatocytes. Effect of phalloidin and cytochalasin D. J. Cell. Biol. **81**: 592-607, 1979.
2) Doi, K., **Prentki, M**., Yip, C., Muller, W. A., Jeanrenaud, B., and Vranic, M. Identical biological effects of pancreatic glucagon and a purified moiety of canine gastric immunoreactive glucagon. J. Clin. Invest. **63**: 525-531, 1979.
3) Crettaz, M., **Prentki, M**., Zaninetti, D., and Jeanrenaud, B. Insulin resistance in soleus muscle from obese Zucker rats. Involvement of several defective sites. Biochem. J. **186**: 525-534, 1980.
4) **Prentki, M**., Crettaz M., and Jeanrenaud, B. A possible complementary role of actin microfilaments and microtubules in triacylglycerol secretion by isolated rat hepatocytes. Biochim. Biophys. Acta **627**: 262-269, 1980.
5) **Prentki, M**., Crettaz, M., and Jeanrenaud, B. Role of microtubules in insulin and glucagon stimulation of amino acid transport in isolated rat hepatocytes. J. Biol. Chem. **256**: 4366-4340, 1981.
6) Assimacopoulos-Jeannet, F., McCormack, J.G., **Prentki, M**., Jeanrenaud, B., and Denton, R.M. Parallel increases in rates of fatty acid synthesis and in pyruvate dehydrogense activity in isolated rat hepatocytes incubated with insulin. Biochim. Biophys. Acta **7l7**: 86-90, 1982.
7) **Prentki, M**., Janjic, D., and Wollheim, C.B. The regulation of extramitochondrial steady-state free calcium concentration by rat insulinoma mitochondria. J. Biol. Chem. **258**: 7597-7602, l983.
8) **Prentki, M**., and Renold, A.E. Neutral amino acid transport in isolated rat pancreatic islets. J. Biol. Chem. **258**: 14239-14244, 1983.
9) **Prentki, M**., Biden, T.J., Janjic, D., Irvine, R.F., Berridge, M.J. and Wollheim, C.B. Rapid mobilization of Ca^{2+} from rat insulinoma microsomes by inositol-1,4,5-trisphosphate. Nature **309**: 562-564, 1984.
10) **Prentki, M**., Janjic, D., Biden, T.J., Blondel, B. and Wollheim, C.B. Regulation of Ca^{2+} transport by isolated organelles of a rat insulinoma. Studies with endoplasmic reticulum and secretory granules. J. Biol. Chem. **259**: 10118-10123, 1984.
11) Biden, T.J., **Prentki, M**., Irvine, R.F., Berridge, M.J. and Wollheim, C.B. Inositol l,4,5trisphosphate mobilizes intracellular Ca^{2+} from permeabilized insulin secreting cells. Biochem. J. **223**: 467-473, 1984.
12) **Prentki, M**., Janjic, D., and Wollheim, C.B. Coordinated regulation of free Ca^{2+} by isolated organelles from a rat insulinoma. J. Biol. Chem. **259**: 14054-14058, 1984.
13) **Prentki, M**., Wollheim, C.B., and Lew, P.D. Ca^{2+} homeostasis in permeabilized human neutrophils. Characterization of Ca^{2+}-sequestering pools and the action of inositol l,4,5-trisphosphate. J. Biol. Chem. **259**: 13777-13782, 1984.
14) Gazzano, H., Halban, P., **Prentki, M**., Ballotti, R., Brandenburg, D., Fehlmann, M., and Van Obberghen, E. Identification of functional insulin receptors on membrane from an insulin producing cell line (RINm5F). Biochem. J. **226**: 867-872, 1985.
15) **Prentki, M**., Corkey, B.E., and Matschinsky, F.M. Inositol l,4,5-trisphosphate and the endoplasmic reticulum Ca^{2+} cycle of a rat insulinoma cell line. J. Biol. Chem. **260**: 9185-9199, 1985.
16) Epstein, P.A., **Prentki, M**., and Attie, M.F. Modulation of intracellular Ca^{2+} in the parathyroid cell: release of Ca^{2+} from nonmitochondrial pools by inositol trisphosphate. FEBS Lett. **188**: 141-144, 1985.
17) Falkmer, S., Odselius, R., Blondel, B., **Prentki, M**., and Wollheim, C.B. Energy dispersive X-ray microanalysis of zinc and calcium in organelles of insulin-producing cells of the mouse, rat and a fish. Biomed. Biochim. Acta **44**: 37-43, 1985.
18) **Prentki, M**., Deeney, J.T., Matschinsky, F.M. and Joseph, S.K. Neomycin: a specific drug to study the inositol-phospholipid signalling system? FEBS Lett. **197**: 285-288, 1986.
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51) Farfari, S., Schulz, V., Corkey, B.E. and **Prentki, M**. Glucose regulated anaplerosis and cataplerosis in pancreatic ß-cells. Possible implication of a pyruvate/citrate shuttle in insulin secretion. Diabetes, 49: 718-726, 2000
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56) Hardy, S., Langelier, Y. and **Prentki, M.** Oleate activates phosphatidylinositol 3-kinase, promotes proliferation and reduces apoptosis of breast cancer cells whereas palmitate has opposite effect. Cancer Res. 60 : 6353-6358, 2000.
57) Dillon, J.S., Yaney, G.C., Zhou, Y. Voilley, N., Bowen, S., Chipkin, S. Bliss, C.R., Schulz, V., Schuit, F., **Prentki, M.,** Waxman, D.J. and Corkey, B.E. Dehydropiandrosterone sulfate and ß-cell function: Enhanced glucose-induced insulin secretion and altered gene expression in rodent pancreatic ß-cells. Diabetes 49: 2012-2020, 2000.
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68) El-Assaad, W., Buteau, J., Peyot, M.-L., Nolan, C., Roduit, S., Hardy, S., Joly, E., Dbaibo, E., Rosenberg, L., and **Prentki, M.** Saturated fatty acids synergize with elevated glucose to cause pancreatic ß-cell death. Endocrinology 144: 4154-4163, 2003.
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71) Buteau, J., El-Assaad, W., Rhodes, C.J., Rosenberg, L., Joly, E. and **Prentki, M**. Glucagon-like peptide-1 prevents ß-cell glucolipotoxicity via protein kinase B/Akt. Diabetologia 47: 806-815, 2004.
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