
Publications

1. Evidence that orexins A and B stimulate insulin secretion from rat pancreatic islets via both receptor subtypes. Nowak KW, Strowski MZ, Switonska MM, Kaczmarek P, **Singh V**, Fabis M, Mackowiak P, Nowak M, Malendowicz LK. *Int J Mol Med*. 2005 Jun;15(6):969-72.
2. Antidiabetic activity of a highly potent and selective nonpeptide somatostatin receptor subtype-2 agonist. Strowski MZ, Cashen DE, Birzin ET, Yang L, **Singh V**, Jacks TM, Nowak KW, Rohrer SP, Patchett AA, Smith RG, Schaeffer JM. *Endocrinology*. 2006 Oct;147(10):4664-73.
3. Characterization of somatostatin receptor subtype-specific regulation of insulin and glucagon secretion: an in vitro study on isolated human pancreatic islets. **Singh V**, Brendel MD, Zacharias S, Mergler S, Jahr H, Wiedenmann B, Bretzel RG, Plockinger U, Strowski MZ. *Clin Endocrinol Metab*. 2007 Feb;92(2):673-80.
4. Somatostatin receptor subtype-2-deficient mice with diet-induced obesity have hyperglycemia, nonfasting hyperglucagonemia, and decreased hepatic glycogen deposition. **Singh V**, Grotzinger C, Nowak KW, Zacharias S, Goncz E, Pless G, Sauer IM, Eichhorn I, Pfeiffer-Guglielmi B, Hamprecht B, Wiedenmann B, Plockinger U, Strowski MZ. *Endocrinology*. 2007 Aug;148(8):3887-99.
5. Voltage operated R-type Ca²⁺ channels modulate somatostatin receptor subtype 2- and 3- dependent inhibition of insulin secretion from INS-1 cells. Mergler S, **Singh V**, Grotzinger C, Wiedenmann B, Plockinger U, Strowski MZ. Submitted

Abstracts from Ph.D. Thesis

1. Effects of SOM230 on in vitro secretion of glucagon and insulin from isolated mouse pancreatic islets. **Singh, V.**, Zacharias, S., Mergler, S., Grotzinger C., Wiedenmann B., and Strowski, M. *European Journal of Endocrinology* 152: Suppl. 1, 2005.
2. Pharmacological characterisation of somatostatin receptors in human pancreatic islets. Strowski, M., **Singh, V.**, Zacharias, S., Mergler, S., Brendel, M. D, Bretzel, R. G. Wiedenmann B., and Plockinger, U. *European Journal of Endocrinology* 152, Suppl. 1, 2005.
3. Insulinoma (Ins-1) and glucagonoma (InR1-G9) cells express pharmacologically distinctive somatostatin receptor subtypes. Zacharias, S., **Singh, V.**, Mergler, S., Grotzinger, C., Wiedenmann, B., and Strowski, M. *European Journal of Endocrinology* 152: Suppl. 1, 2005.
4. Somatostatinrezeptoren vom Subtyp 2 und 5 regulieren Glukagon und Insulinsekretion - in vitro Studie an isolierten humanen Pankreasinseln. Strowski MZ, **Singh V**, Mergler S, Zacharias S, Brendel M, Brandhorst H, Wiedenmann B, Bretzel RG, Plöckinger U. *Diabetes und Stoffwechsel* 14 (Suppl): P-301, 2005.
5. Antidiabetic activity of a highly potent and selective non-peptidal somatostatin receptor subtype-2 agonist. Strowski, M., Cashen, D., Birzin, E., Yang, L., **Singh, V.**, Rohrer, S., Smith, R., and Schaeffer. J. *Diabetes* 54: A411-A411 (Suppl. 1), 2005.
6. Pharmacological characterization of somatostatin receptors in human pancreatic islets. Strowski, M., **Singh, V.**, Mergler, S., Zacharias, S., Brendel, M. D., Brandhorst. H., Bretzel, R. G., Wiedenmann, B., Plockinger, U. *Diabetes* 54: A411-A411 (Suppl. 1), 2005.

7. Somatostatin receptor subtype-2 agonist alleviates hyperglycemia in animal models of type 2 diabetes. Strowski MZ, **Singh V**, Cashen DE, Birzin ET, Rohrer SP, Schaeffer JM. *Diabetologia* 48: A291-A291, 801 (Suppl. 1), 2005.

8. Hyperglukagonämie trägt zur Hyperglykämie bei nach Induktion der Adipositas und Insulinresistenz in Somatostatinrezeptor-Subtyp 2-defizienten Mäusen. Strowski, M., **Singh, V.**, Zacharias, S., Grötzinger, C., Wiedenmann, B., Plöckinger, U. *Diabetologie und Stoffwechsel* (Suppl. 1) Vol. 1, 2006.

9. SSTR2 plays a potent role in the inhibition of insulin secretion and proinsulin gene transcription in INS-1 cells via PI3K pathway. **Singh V.**, Theodoropoulou M, , Schulz S., Mergler S., Zacharias S., Stalla GK, Wiedenmann B, Plöckinger U., Strowski, M. *Hormones* (Suppl. 1) Vol. 5, 2006.

Oral Presentation

1. Somatostatin receptor subtype 2- role in the pathophysiology and therapy of type 2 diabetes? **Singh, V.**, Wiedenmann, B., Strowski MZ. Charité - Universitätsmedizin Berlin Kommission für Nachwuchsförderung und Weiterbildung, Berlin, Germany. Nov. 2006.

Awards and Scholarships

1. Awarded with research fellowship from Central Drug Research Institute, Lucknow, India. 02/2001-02/2003.

2. Awarded with one year scholarship from Charité – University Medicine Berlin, Germany. 01/2007-12/2007.

Conferences Attended

Indian Pharmacological Society (IPS) 2002, Nagpur, India.

Novartis Oncology 2005, Barcelona

American Diabetes Association (ADA) 2005, San Diego, California.

European Congress of Endocrinology (ECE) 2005 Goteborg, Sweeden

European Neuroendocrine Association, (ENEA) 2006, Athens, Greece.

Teaching Experience

Supervised the practical course of Masters Programme of Molecular Medicine students.

“Isolation and physiological characterization of murine pancreatic islets.”