

## Curriculum Vitae

### Assoc. Univ.-Prof. Dr. Juliane G. Bogner-Strauss

Institute of Biochemistry, Graz University of Technology, Humboldtstrasse 46, 8010 Graz, Austria

Website: <http://www.tugraz.at/projekte/cellism>

#### Research Interests

Mouse and cell culture models for white and brown adipocyte development, energy and acetyl-CoA metabolism, metabolic disorders, apoptosis, lipid hydrolyzing enzymes.

#### University Education

- 1999-2002 Ph.D. thesis at the Institute of Molecular Biosciences (Supervision: Prof. Rudolf Zechner, passed with distinction), University of Graz, Austria
- 1998-1999 Master thesis at the Institute of Molecular Biosciences (Supervision: Prof. Rudolf Zechner, passed with distinction), University of Graz, Austria
- 1992-1997 Undergraduate studies of chemistry passed with distinction at the University of Graz, Austria

#### Career History

- since 2014 Associate Professor at the Institute of Biochemistry, Graz University of Technology, Austria
- 2010-2013 Associate Professor & Deputy Head at the Institute for Genomics and Bioinformatics, Graz University of Technology, Austria
- 2005-2010 Assistant Professor & Deputy Head at the Institute for Genomics and Bioinformatics, Graz University of Technology, Austria
- 2008 Jan Habilitation (Venia docendi for Genomics and Molecular Biology, Graz University of Technology, Austria)
- 2003-2005 Postdoctoral fellow and University Assistant at the Institute of Molecular Biosciences, University of Graz, Austria

#### Career Related Activities and Memberships

- since 2013 ASBMB (The American Society for Biochemistry and Molecular Biology) membership
- 2003 Mar University of Denver, CO, USA. Cooperation with the lab of Prof. Robert H. Eckel: Measurement of Body Mass Composition (BMC), Respiratory Quotient and Energy Expenditure in LPL-ko mice
- 2002 Nov University of Leiden, Netherlands. Training in the use of Atherosclerosis Assays (Assoc. Prof. M. van Eck)

#### Scientific Talks

- 2013 N-acetyltransferase 8-like: new implications in brown adipocyte metabolism through PPAR $\alpha$  signaling. Keystone Symposium: "Nuclear Receptors and Friends: Roles in Energy Homeostasis and Metabolic Dysfunction" in Alpbach, Austria
- 2013 "Brown fat physiology" Key lecture, 14<sup>th</sup> Annual Meeting of the Austrian Adipositas Society, Seggau, Austria
- 2012 N-acetyltransferase 8-like impacts on brown adipocyte development and influences UCP1 expression. BENZON Symposium: "Adipose Tissue in Health and Disease" in Copenhagen, Denmark. Talk was given by A. Pessentheiner, a Ph.D. student, due to my maternity leave

- 2011 "APMAP: A transmembrane protein required for adipogenesis and targeted by PPAR $\gamma$ ." Keystone Symposium: Type 2 DM and Obesity, Keystone, Colorado, USA
- 2007 The role of JunB in fat metabolism. 76<sup>th</sup> European Atherosclerosis Society (EAS) Congress, Helsinki, Finland

### Memberships, Activities on Editorial Boards or As Reviewer

- 2013 Reviewer in PLoS ONE
- 2013 Reviewer in The International Journal of Neuropsychopharmacology
- 2013 ASBMB (The American Society for Biochemistry and Molecular Biology) membership
- 2009 Reviewer in Medical Science Monitor

### Peer-reviewed Publications (present - 2009)

1. Morinaga H, Mayoral R, Heinrichsdorff J, Osborn O, Franck N, Hah N, Walenta E, Bandyopadhyay G, Pessentheiner AR, Chi TJ, Chung H, Bogner-Strauss JG, Evans RM, Olefsky JM, Oh da Y. Characterization of distinct subpopulations of hepatic macrophages in HFD/obese mice. *Diabetes*. 2015 Apr;64(4):1120-30. doi: 10.2337/db14-1238.
2. Koller D, Hackl H, Bogner-Strauß JG, Hermetter A. Effects of oxidized phospholipids on gene expression in RAW 264.7 macrophages: a microarray study. *PLoS One* 2014, 9(10):e110486.
3. Oh DY, Walenta E, Akiyama RE, Lagakos WS, Lackey D, Pessentheiner AR, Sasik R, Hah N, Chi T, Cox JM, Powels MA, Di Salvo J, Sinz C, Watkins SM, Armando AM, Chung H, Evans RM, Quehenberger O, McNelis J, Bogner-Strauss JG, Olefsky JM. A Gpr120 Selective Agonist Improves Insulin Resistance and Chronic Inflammation. *Nat Med* 2014, 20(8):942-7.
4. Prokesch A, Smorlesi A, Perugini J, Manieri M, Ciarmela P, Mondini E, Trajanoski Z, Kristiansen K, Giordano A, Bogner-Strauss JG\*, and Cinti S\* (\*corresponding authors). Molecular Aspects of Adipo-epithelial Transdifferentiation in Mouse Mammary Gland. *Stem Cells* 2014, 32(10):2756-66.
5. Pessentheiner AR, Pelzmann HJ, Walenta E, Schweiger M, Groschner L, Graier W, Prokesch A and Bogner-Strauss JG. N-acetyltransferase 8-like impacts on brown adipocyte development and enhances metabolic rate. *J Biol Chem* 2013; 288(50):36040-51.
6. Walenta E, Pessentheiner AR, Pelzmann HJ, Deutsch A, Goeritzer M, Kratky D, Hackl H, Oh DY, Prokesch A, Bogner-Strauss JG.  $\alpha/\beta$ -Hydrolase Domain Containing Protein 15 (ABHD15) – an Adipogenic Protein Protecting from Apoptosis. *PLoS ONE* 2013; 8(11):e79134.
7. Schupp M, Chen F, Briggs ER, Rao S, Pelzmann HJ, Pessentheiner AR, Bogner-Strauss JG, Lazar MA, Baldwin D, Prokesch A. Metabolite and transcriptome profiling reveal involvement of p53 signaling in the fasting response of major metabolic tissues. *BMC Genomics* 2013; 14(1):758.
8. Kienesberger PC, Pulinilkunnit T, Nagendran J, Young ME, Bogner-Strauss JG, Hackl H, Khadour R, Heydari E, Haemmerle G, Zechner R, Kershaw EE, Dyck JR. Early structural and metabolic cardiac remodelling in response to inducible adipose triglyceride lipase ablation. *Cardiovasc Res* 2013; 99(3):442-51.
9. Obrowsky S, Chandak PG, Patankar JV, Povoden S, Schlager S, Kershaw EE, Bogner-Strauss JG, Hoeffler G, Levak-Frank S, Kratky D. Adipose triglyceride lipase is a TG hydrolase of the small intestine and regulates intestinal PPAR $\alpha$  signaling. *J Lipid Res* 2013; 54(2):425-35. Duszka K, Bogner-Strauss JG, Hackl H, Rieder D, Neuhold C, Prokesch A, Trajanoski Z, Krogsdam AM. Nr4a1 Is Required for Fasting-Induced Down-Regulation of Pparg2 in White Adipose Tissue. *Mol Endocrinol* 2013; 27(1):135-49. Karbiener M, Neuhold C, Opriessnig P, Prokesch A, Bogner-Strauss JG, Scheideler M. MicroRNA-30c promotes human adipocyte differentiation and co-represses PAI-1 and ALK2. *RNA Biol* 2011; 8(5):850-60.

10. Rollett A, Thallinger B, Ohradanova-Repic A, Machacek C, Walenta E, Cavaco-Paulo A, Birner-Gruenberger R, Bogner-Strauss JG, Stockinger H, Guebitz GM. Enzymatic synthesis of antibody-human serum albumin conjugate for targeted drug delivery using Tyrosinase from *Agaricus bisporus*. *RSC Advances* 2013; 3: 1460-1467.
11. Hakim-Weber R, Krogsdam AM, Jørgensen C, Fischer M, Prokesch A, Bogner-Strauss JG, Bornstein SR, Hansen JB, Madsen L, Kristiansen K, Trajanoski Z, Hackl H. Transcriptional regulatory program in wild-type and retinoblastoma gene-deficient mouse embryonic fibroblasts during adipocyte differentiation. *BMC Res Notes* 2011; 4:157.
12. Pinent M, Prokesch A, Hackl H, Voshol PJ, Klatzer A, Walenta E, Panzenboeck U, Kenner L, Trajanoski Z, Hoefler G and Bogner-Strauss JG. Adipose triglyceride lipase is involved in fat loss in JunB-deficient. *Endocrinology* 2011; 152(7):2678-89.
13. Aflaki E, Balenga NA, Luschnig-Schratl P, Wolinski H, Povoden S, Chandak PG, Bogner-Strauss JG, Eder S, Konya V, Kohlwein SD, Heinemann A, Kratky D. 2011. Impaired Rho GTPase activation abrogates cell polarization and migration in macrophages with defective lipolysis. *Cell Mol Life Sci* 2011; 68(23):3933-47.
14. Hörl G, Wagner A, Cole LK, Malli R, Reicher H, Kotzbeck P, Köfeler H, Höfler G, Frank S, Bogner-Strauss JG, Sattler W, Vance DE and Steyrer E. Sequential synthesis and methylation of phosphatidylethanolamine promote lipid droplet biosynthesis and stability in tissue culture and in vivo. *J Biol Chem* 2011 286(19):17338-50.
15. Prokesch A\*, Bogner-Strauss JG\*, Rieder D, Neuhold C, Hackl H, Krogsdam A, Scheideler M, Papak C, Wong W-C, Vinson C, Eisenhaber F and Trajanoski Z. (\*contributed equally). Arxes: Retrotransposed genes required for adipogenesis. *Nucleic Acid Research* 2011 39(8):3224-3239.
16. Bogner-Strauss JG\*, Prokesch A, Sanchez-Cabo F, Rieder D, Hackl H, Duszka K, Krogsdam A, Di Camillo B, Walenta E, Klatzer A, Lass A, Pinent M, Wong WC, Eisenhaber F, Trajanoski Z. (\*corresponding author). Reconstruction of gene association network reveals a transmembrane protein required for adipogenesis and targeted by PPARgamma. *Cell Mol Life Sciences* 2010 67(23):4049-64.