

Publikationstätigkeit Prof. Dr. med. Andreas Birkenfeld

1. Ramos HR*, **Birkenfeld AL***, de Bold AJ. Cardiac Natriuretic Peptides and Obesity: Perspectives from an endocrinologist and from a cardiologist. **Endocr Connect 2015, accepted** * equal contribution
2. Brachs S, **Birkenfeld AL**. Neue Insuline und die Insulinsignalkaskade. **For Med. 2015**; 5:53-58.
3. **Birkenfeld AL**. AMPK Aktivatoren in der Therapie des Typ 2 Diabetes und des Metabolisch-Vaskulären Syndroms. **For Med. 2015**; 5:39-41
4. Haufe S, Kaminski J, Utz W, Pofahl M, Traber J, Daniels M, **Birkenfeld AL**, Haas V, Mähler A, Lichtinghagen R, Luft FC, Schulz-Menger J, Boschmann M, Engeli S, Jordan J. Influence of Diet-induced Weight Reduction on mid-Regional Atrial Natriuretic Peptide in Obese Subjects. **J Hypertens 2015, epub**
5. Krüger, J, Brachs, S, Trappiel, M, Kintscher, U, Meyborg U, Wellnhofer E, Thöne-Reineke C, Stawowy P, Ostman A, **Birkenfeld AL**, Boehmer F, Kappert K. Improved Insulin Sensitivity in Density-enhanced Phosphatase-1 (DEP-1) Knockout Mice. **Mol Metab 2015** 12;4:325-36
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12. Lee HY, Kanda S, Guigni B, Khan B, Zhang D, Galbo T, **Birkenfeld AL**, Jornayvaz FR, Jurczak MJ, Choi CS, Yan Z, Williams RS, Shulman GI, Samuel VT. Muscle specific Activation of Ca²⁺/Calmodulin-dependent Protein Kinase IV Increases Whole body Insulin Action. *Diabetologia* 2014, 57:1232-41. IF8,2
13. Lieske S, **Birkenfeld AL**. Insulin Mediates ER Stress in Adipose Tissue and Liver. *Diabetes* 2014. 63:e1, Letter
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24. Schlueter N, **Birkenfeld AL**: How HDL Fuels the Failing Heart. *Hypertension* 2013; 61:955-957. IF 6,2
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Selected Abstracts:

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2. Schlüter N, Spranger J, **Birkenfeld AL**. Metabolic Effects of Natriuretic Peptides. **Ge-Fra Symposium 2013, Paris, France**.
3. von Loeffelholz C, Lieske S, Willmes DM, Helfand SL, Bernier M, DeCabo R, Puschel GP, Pfeiffer AFH, **Birkenfeld AL**. The Human INDY Homolog INDY is Induced in Obesity and Insulin Resistance Through IL-6. **Abstract at the IDF World Diabetes Congress 2013, Melbourne, Australia**
4. Binger, K. J., **Birkenfeld, A. L.**, Wurmsee, S., Qadri, F., Tattikota, S. G., Willmes, D. M., Nguyen, G., Poy, M. N., and Muller, D. N. (Pro)renin receptor conditional knockout causes beta-cell loss and hyperglycemia by inducing pathological autophagy. **Abstract at the IDF World Diabetes Congress 2013, Melbourne, Australia**
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- Pfeiffer AFH, **Birkenfeld AL**. The Human INDY Homolog INDY is Induced in Obesity Through IL-6. **Abstract at the Deutsche Adipositas Gesellschaft Meeting 2013, Hannover.**
6. Reinke, J, **Birkenfeld AL**, Samuel VT, Crawford S, Chung C. Pigment Epithelium-Derived Factor Deficiency Deteriorates Lipid and Glucose Metabolism. **Abstract at the Deutsche Adipositas Gesellschaft Meeting 2013, Hannover.**
 7. Keyhani F, Isken F, **Birkenfeld AL**, Pfeiffer AF. High glycaemic index (GI) diet induced hepatic fat accumulation and insulin resistance is associated with high glucose-dependent insulinotropic polypeptide (GIP) secretion. **Abstract at the EASD Annual Meeting 2013, Barcelona, Spain**
 8. von Loeffelholz C, Lieske S, Willmes DM, Helfand SL, Bernier M, DeCabo R, Puschel GP, Pfeiffer AFH, **Birkenfeld AL**. The Human INDY Homolog INDY is Induced in Obesity Through IL-6. **Abstract at the ADA Scientific Sessions 2013, Chicago, USA**
 9. Lieske S, Löffelholz C, **Birkenfeld AL**. Role of INDY in Mitochondrial Metabolism. **Abstract at the World Congress of Molecular and Cell Biology 2013, Suzhou, China**
 10. Lieske S, von Loeffelholz C, Doecke S, Neuschafer-Rube F, Pathe-Neuschafer-Rube A, Jordan J, Spanger J, Willmes DM, Sauer IM, Helfand SL, Bernier M, DeCabo R, Puschel GP, Pfeiffer AFH, **Birkenfeld AL**. The Interleukin-6 Induces the Human INDY Homolog in Obesity. **Abstract at the DIFE Symposium 2013, Potsdam-Rehbrücke**
 11. **Birkenfeld AL**. Molekulare Mechanismen der Adipositasentstehung. **Abstract at the Deutsche Adipositas Gesellschaft Meeting 2012, Stuttgart**
 12. Keyhani F, Isken F, **Birkenfeld AL**, Pfeiffer AF. The Role of Glucose-Dependent Insulinotropic Polypeptide (GIP) in High Glycemic Index (GI) Diet Induced Hepatic Fat Accumulation and Insulin Resistance. **Abstract at the ADA Scientific Sessions 2012, Philadelphia, USA**
 13. Lieske S, Neuschäfer-Rube F, Pfeiffer AF, Püschel GP, **Birkenfeld AL**. Glucagon induziert das Säugetier Indy-Gen-Homolog in primären Rattenhepatocyten. **Abstract**

at the DDG 2012, Mannheim. **Winner Poster-Award**

14. **Birkenfeld AL.** The Role of the Mammalian INDY Homolog in Lipid and Glucose Metabolism. **Abstract at the EASD Congress, Lisbon, Portugal 2011. Winner Rising Star Award**
15. **Birkenfeld AL,** Lee HY, Jurczak MJ, Jornayvaz FR, Frederick DW, Alves T, Cabo R, Helfand SL, Samuel VT, Shulman GI. Loss of the Mammalian INDY Homologue in Mice Promotes Increased Energy Expenditure and Protects Against Diet and Age-Induced Adiposity and Insulin Resistance. **Abstract at the World Diabetes Congress 2011 in Duabi, VAE.**
16. Gattu A, Protiva P, **Birkenfeld AL,** Jornayvaz FR, Gerhard G, Samuel VT, Crawford S, Chung CC. PEDF is Necessary for Normal Insulin Signaling. **Abstract at the AASLD 2011 in San Francisco, USA.**
17. Lee HY, Hui LI, Guigni B, Wang J , **Birkenfeld AL,** Jornayvaz FR, Kanda S, Jurczak MJ, Samuel VT, Sklar J, Shulman GI. Early Growth Retardation and Insulin Resistance in JAZF1 KO Mice. **Abstract at the ADA Scientific Sessions 2011**
18. Jurczak MJ, Lee AH, Jornayvaz FR, Guigni B, **Birkenfeld AL,** Lee HY, Samuel VT, Glimcher LH, Shulman GI. Dissociation of IRE1 α Mediated JNK Activation from Hepatic Insulin Resistance in Conditional XBP1 Knockout Mice. **Abstract at the ADA Scientific Sessions 2011**
19. Hernandez Valenciano L, Kuna M, Lieske S, Neuschäfer-Rube F, Pfeiffer AF, Püschel GP, **Birkenfeld AL.** Glucagon-stimulated Induction of the *Indy*-Gene in Primary Hepatocytes of the Rat. **Abstract at the Annual Meeting of the German Association for the Study of the Liver (GASL) 2011.**
20. **Birkenfeld AL,** Jornayvaz FR, Chung CC, Lee HY, Jurczak MJ, Frederick DW, Gattu A, Shugrue C, Gorelick F, Crawford S, Shulman GI, Samuel VT. Loss of Pigment Epithelium-Derived Factor Deteriorates Lipid and Glucose Metabolism. **Abstract at the EASD Annual Meeting 2010.**

21. Jurczak MJ, **Birkenfeld AL**, Lee HY, Jornayvaz FR, Pongratz RL, Zhao X, Samuel VT, Whaley JM, Shulman GI, Kibbey RG. SGLT2 Knockout Reduces Hyperglycemia and Preserves Islet Function in db/db Mice. **Abstract at the EASD Annual Meeting 2010.**
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23. Lee HY, **Birkenfeld AL**, Frederick DW, Jornayvaz FR, Jurczak MJ, Guigni B, Choi CS, Prolla T, Petersen KF, Samuel VT, Shulman GI. Mutation in Mitochondrial DNA Polymerase Promotes Hepatic and Peripheral Insulin Resistance. **Abstract at the ADA Scientific Sessions 2010.**
24. Lee HY, **Birkenfeld AL**, Frederick DW, Jornayvaz FR, Jurczak MJ, Guigni B, Choi CS, Yan Z, Williams RS, Petersen KF, Samuel VT, Shulman GI. Muscle Specific Overexpression of Ca⁺⁺/Calmodulin-dependent Protein Kinase IV Protects From Insulin Resistance Associated with Aging. **Abstract at the ADA Scientific Sessions 2010.**
25. Jornayvaz FR, Jurczak MJ, Lee HY, **Birkenfeld AL**, Frederick DW, Zhang D, Samuel VT, Shulman GI. A Low-Carbohydrate, High-Fat Ketogenic Diet Prevents Weight Gain but Causes Hepatic Insulin Resistance in Mice. **Abstract at the ADA Scientific Sessions 2010.**
26. **Birkenfeld AL**, Lee HY, Frederick DW, Jurczak MJ, Jornayvaz FR, Oyadomari S, Samuel VT, Ron D, Shulman GI. Liver Specific Inhibition of the eIF2 α Mediated ER Stress Response Pathway Improves Hepatic Insulin Action but Impairs Peripheral Insulin Sensitivity in Mice. **Abstract at the Annual Symposion of the Deutsche Gesellschaft fuer Endokrinologie (DGE) 2010.**
27. **Birkenfeld AL**, Lee HY, Frederick DW, Jurczak MJ, Jornayvaz FR, Oyadomari S, Samuel VT, Ron D, Shulman GI. Liver Specific Inhibition of the eIF2 α Mediated ER Stress Response Pathway Improves Hepatic Insulin Action but Impairs Peripheral Insulin Sensitivity in Mice. **Abstract at the ADA Scientific Sessions 2009.**

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29. Chutkow WA, **Birkenfeld AL**, Brown JD, Lee HY, Frederick D, Yoshioka J, Patwari P, Plutzky JP, Shulman GI, Samuel VT, Lee RT. Loss of TXNIP, a Novel Inhibitor of PPAR γ , Protects Against Fat Induced Insulin Resistance. **Abstract at the ADA Scientific Sessions 2009.**
30. Jurczak MJ, **Birkenfeld AL**, Frederick DW, Lee HY, Samuel VT, Whaley JM, Shulman GI, Kibbey RG. SGLT2 knockout improves glucose tolerance in lean and fat-fed mice. **Abstract at the ADA Scientific Sessions 2009.**
31. Lee HY, Choi CS, **Birkenfeld AL**, Frederick DW, Shadel G, Ladiges W, Rabinovitch PS, Petersen KF, Samuel VT, Shulman GI. Overexpression of Mitochondrial Catalase Protects Against Age Induced Insulin Resistance in Mice. **Abstract at the ADA Scientific Sessions 2009.**
32. Kibbey RG, Choi CS, Lee HY, Cabrera O, **Birkenfeld AL**, Samuel VT, Stanley W, Shulman GI. Beta-cell Glutamate Dehydrogenase Deficiency Regulates Glucagon Release from Pancreatic Alpha Cells *in vivo*. **Abstract at the ADA Scientific Sessions 2009.**