

CURRICULUM VITAE
Dr. Andreas L. Birkenfeld, M.D.
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Appointments:

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- since 11/2011 Study-Group Leader “Regulation of Energy Metabolism”, Charité – Berlin and Outpatient Clinic for Endocrinology, Charité – Berlin in the Department of Endocrinology, Diabetes and Nutrition with Prof. Joachim Spranger.

 - 2011 Board Certification for Internal Medicine

 - 11/2009-2011 Scientist and Senior House Officer at the German Institute of Human Nutrition, Department of Human Nutrition, and Charité – University School of Medicine, Department of Endocrinology, Diabetes and Nutrition with Prof. Andreas F. Pfeiffer, Berlin, Germany

 - 6/2009–11/2009 Associate Researcher in the lab of Prof. Gerald I. Shulman, Yale University School of Medicine, New Haven, USA. Leading postdoctoral fellow of the Mouse Metabolic Phenotyping Center (MMPC). Techniques: In vivo hyperinsulinemic euglycemic clamps in mice, tracer-based organ specific glucose and lipid turnover, ¹H-, ¹³C-, ³¹P- magnetic resonance spectroscopy

 - 2007 – 6/2009 Postdoctoral Fellow of the German Research Association (DFG) with Prof. Gerald I. Shulman, Yale University School of Medicine, Department of Cellular and Molecular Physiology and Howard Hughes Medical Institute, New Haven, Connecticut, USA

 - 2005-2007 Co-Director of the Obesity Outpatient Clinic, Franz-Volhard Clinic, Humboldt University Berlin, Germany

 - 2005- 2007 Residency, Intensive Care Unit, Franz-Volhard Clinic, Humboldt University Berlin, Germany

 - 2003-2005 Fellowship, Franz-Volhard Clinical Research Center, Obesity Clinic and Nephrology section with Prof. Friedrich C. Luft and Prof. Jens Jordan, Humboldt University Berlin, Germany

 - 2001-2003 Residency with Prof. Friedrich C. Luft, Medicine, Franz-Volhard Clinic, Humboldt University Berlin, Germany

Thesis:

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- 2004 „Autonomic, Cardiovascular and Metabolic Effects of Combined Pharmacological Norepinephrine- and Serotonin Reuptake Inhibition“
Mentor: Prof. Jens Jordan, Berlin, Grade: ***magna cum laude***

Selected Prizes :

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- 2012 Hellmut Mehnert Projekt Promotion der Deutschen Diabetes Gesellschaft
Posterpreis der Deutschen Gesellschaft fuer Endokrinologie

 - 2011 “Rising Star” Lecture of the European Association for the Study of Diabetes (EASD) in Lisbon, Portugal

- 2010 Investigator Award of the American Diabetes Association for the **Indy Project**, in Orlando, USA
- 2005 New Investigator Award of the American Heart Association, in Washington, USA
Penaz-Wesseling Award from the American Autonomic Society, San Jose de Cabo, Mexico
- 2004: Hans J. Dengler Prize for Clinical Pharmacology of the Deutsche Gesellschaft für klinische Pharmakologie und Toxikologie, Stuttgart, Germany

Selected Grants:

- German Research Foundation
Regulation of Energy Metabolism and Life Span in Mammals through *Indy* and its substrates; BI1292/4-1, 2011-2014
Peripheral and Central Effects of Protein-Tyrosine-Phosphatase 1B Inhibition on Glucose and Lipid Metabolism in Humans and Mice, BI1292/2-1, 2007 – 2009
- German Hypertension League e.V. DHL
Influence of the Longevity Gene *Indy* on Mammalian Blood Pressure Regulation *in vivo*, 2011-2012
- German Diabetes Association
Project Promotion: Transcriptional Regulation of the *Indy* Gene in mammals, 2010
- American Diabetes Association
Mentor-Based Postdoctoral Fellowship for the *Indy* Project, 2009-2010

Scientific

Contributions:

- 2011 Poster Session Chair, EASD Meeting, Lisbon, Portugal
Abstract committee for the German Diabetes Association
- 2010 Instructor, Myograd - Summer School of Myology, Charité, Berlin
Poster Session Chair, 70th ADA Scientific Sessions, Orlando, USA
Poster Session Chair, Scientific Sessions of the German Diabetes Association in Stuttgart
- Peer Reviewer: New England Journal of Medicine, Aging Cell, Hypertension, Journal of Internal Medicine, European Journal of Clinical Nutrition, Clinical Autonomic Research, German Research Foundation

Professional

Memberships:

Deutsche Gesellschaft für Endokrinologie (DGE)
Deutsche Diabetes Gesellschaft (DDG)
Deutsche Adipositas Gesellschaft (DAG)
European Association for the Study of Diabetes (EASD)
American Diabetes Association (ADA)

Fields of Research:

- Energy homeostasis, metabolic interactions between lipid and glucose metabolism; mitochondrial biogenesis,
- Metabolic and cardiovascular interactions
- Translational research from cell systems to animal models to clinical applications

Personal

Information:

- born in Berlin, Germany
- married, 2 children

Important Publications:

1. **Birkenfeld AL**, Lee HY, Guebre-Egziabher F, Alves TC, Jurczak MJ, Jornayvaz FR, Zhang D, Hsiao JJ, Martin-Montalvo A, Fischer-Rosinsky A, Spranger J, Pfeiffer AF, Jordan J, Carmean CM, Knauf F, Irusta PM, De Cabo R, Helfand SL, Samuel VT, Shulman GI. Deletion of the Mammalian *INDY*-Homolog in Mice Mimics Aspects of Dietary Restriction and Protects Against Diet and Age-Induced Adiposity and Insulin Resistance. *Cell Metab* **2011**; 14:185-195.
2. Pajvani UB, Shawber CJ, Samuel VT, **Birkenfeld AL**, Shulman GI, Kitajewski J, Accili D. Inhibition of Notch Signaling Ameliorates Obesity Induced Insulin Resistance in a FoxO1-Dependent Manner. *Nat Med* **2011**; 17: 961 – 967.
3. **Birkenfeld AL**, Lee HY, Majumdar S, Jurczak MJ, Jornayvaz FR, Frederick DW, Arafat AM, Pfeiffer AF, Lieske S, Kahn M, Zhang D, Guigni B, Weismann D, Oyadomari S, Ron D, Samuel VT, Shulman GI. Influence of the Hepatic eIF2 α ER Stress Response Pathway on Insulin Mediated ER Stress, Hepatic and Peripheral Glucose Metabolism. *J Biol Chem* **2011**: 286:36163-70.
4. Lee HY, Choi CS, **Birkenfeld AL**, Frederick DW, Shadel G, Ladiges W, Rabinovitch PS, Petersen KF, Samuel VT, Shulman GI. Targeted Expression of Catalase to Mitochondria Prevents Age-Associated Reductions in Mitochondrial Function and Insulin Resistance. *Cell Metab* **2010**; 12: 676–682.
5. **Birkenfeld AL**, Budziarek P, Boschmann M, Moro C, Adams F, Franke G, Berlan M, Marques MA, Sweep FC, Luft FC, Lafontan M, Jordan J. Atrial Natriuretic Peptide Induces Postprandial Lipid Oxidation in Man. *Diabetes* **2008**; 57:3199-204.