

CURRICULUM VITAE

Beata Lecka-Czernick

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Center for Diabetes and Endocrine Research
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Education/Training

University of Warsaw, Warsaw, Poland Institute of Biochemistry and Biophysics, Polish Academy of Sciences, Warsaw, Poland	M.Sc.	02/1980	Genetics
Institute of Biochemistry and Biophysics, Polish Academy of Sciences, Warsaw, Poland	Ph.D.	12/1985	Genetics
Polish Academy of Sciences, Warsaw, Poland	Postdoctoral Fellow	1986 – 1988	Molecular Biology
University of Arkansas for Medical Sciences, Little Rock, AR	Postdoctoral Fellow	1991-1994	Molecular Biology

Appointments

- 2007 – Professor, Department of Orthopaedic Surgery, Department of Physiology and Pharmacology, University of Toledo College of Medicine (until 2006 Medical College of Ohio), Toledo, OH
- 2007 - Member, Center for Diabetes and Endocrine Research, University of Toledo, OH
- 2009 - Contributor, Biomarkers and Individualized Medicine Center for Excellence, University of Toledo, OH
- 2010 - Graduate School, Course Director for Pathophysiology, University of Toledo, OH
- 2010 - Biomarkers Certificate Program, Course Director for Biomarkers and Individualized Medicine, University of Toledo, OH

Memberships

American Society for Bone and Mineral Research, American Diabetes Association, Endocrine Society

Editorial Board Assignments

- 2012 - present Editorial Board, *Adipocyte*
- 2006 - 2012 Editorial Board: *PPAR Research*
- 2006 Guest Editor for *PPAR Research* special issue *PPARs and Bone Metabolism*
- 2011 Guest Editor for *Clinical Reviews on Bone Mineral Metabolism* special issue *Bone and Diabetes*

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2013 Book Editor, Springer International Publishing: Diabetic Bone Disease – Basic and Translational Research and Clinical Applications (for publication in 2015)

2014 Guest Editor for *Bone* special issue *Bone and Diabetes*

Patents

Griffin, P.R., Kamenecka T., **Lecka-Czernik, B.** PPARG MODULATORS FOR TREATMENT OF OSTEOPOROSIS. PCT/US2015/026226. Filed April 16, 2015

Ongoing Research Support

ADA 7-13-BS-089 (Lecka-Czernik-PI) 07/15/2013 – 07/14/2016
American Diabetes Association

Adipose tissue acquires bone anabolic activity in response to PPAR γ selective activation
To identify endocrine/paracrine factors produced by adipocytes which have bone anabolic activity.

R01 DK105825-01A1 (Griffin-PI, Lecka-Czernik-PI for Consortium) 7/1/2015 - 6/30/2020

Molecular Characterization of Novel Insulin Sensitizers

The aim for the Consortium is to characterize the effect on bone of novel insulin sensitizers synthesized in The Scripps Research Institute (Scripps Florida) (scored 3%)

R01 DE023356 (Jayasuriya-PI, Lecka-Czernik-CoPI) 7/1/2013 -6/31/2018

NIH/NIDCR

Multifunctional bone putty for craniomaxillofacial bone repair

The major goal of this study is to synthesize bone putty with incorporated growth factors and evaluate its bone regeneration properties in *in vitro* and *in vivo* studies.

K01 HL 125445 (Hinds-PI) 11/15/2014 - 10/31/2019

NIH/NIHLB

Antioxidant-PPAR α interaction reduces adiposity

Career Development Award

Role: Perceptor

Publications

Rahman S, Lu Y, Czernik PJ, Rosen CJ, Enerback S, **Lecka-Czernik B.** Inducible brown adipose tissue or beige fat is anabolic for the skeleton. *Endocrinology* 154: 2687- 701, 2013. PMID: 23696565

Lecka-Czernik B, Stechschulte LA, Czernik PJ, Dowling AR. High bone mass in adult mice with diet-induced obesity results from a combination of initial increase in bone mass followed by attenuation in bone formation; implications for high bone mass and decreased bone quality in obesity. *Mol Cell Endocrinol.* 2015 Jan 7. [Epub ahead of print] PMID:25576855

Stechschulte LA, Czernik PJ, Tausif FN, Corzo CA, Marciano DP, Kuruvilla DS, Asteian A, Cameron MD, Kamenecka TM, Griffin PR, **Lecka-Czernik B.** Pharmacological repression of PPAR γ balances energy metabolism and increases bone mass by increasing osteocyte support for bone formation. *Nature Communications* (in review)

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Study Sections and Review Panels

2015 NIH/ National Institute on Aging, SPECIAL EMPHASIS PANEL, ZAG1 ZIJ-8 (O2)
2015 NIH/CSR, Conflict SPECIAL EMPHASIS PANEL, ZRG EMNR-S
2015 NIH/ National Institute on Aging, SPECIAL EMPHASIS PANEL, ZAG1 ZIJ-8
2014 NIH/ National Institute on Aging, Biological Aging Review Committee NIA-B
2014 NIH/ National Institute on Aging, SPECIAL EMPHASIS PANEL, ZAG1 ZIJ-8
2014 NIH Fellowships Review Panel ZRG1 F06-P
2014 NIH/ National Institute on Aging, Clinical Aging Review Committee NIA-C
2014 NIH/ National Institute on Aging, SPECIAL EMPHASIS PANEL, ZAG1 ZIJ-8 M3