

CURRICULUM VITAE

NAME ZAVADIL, Jiri
CITIZENSHIP EU / Czech Republic; US Permanent Resident
LANGUAGE SKILLS FLUENT: English, Czech; ESSENTIAL: German, French, Russian
CURRENT POSITION Assistant Professor of Pathology, New York University Medical Ctr.

EDUCATION / TRAINING

- **M.Sc. 1988** Biochemistry & Biotechnology, Inst. of Chemical Technology, Prague, Czech Rep.
- **Ph.D. 1998** Biomedicine & Molecular Genetics, Charles University, Prague, Czech Rep.
- **Postdoc 1998-1999**, Developmental hematopoiesis, Mount Sinai School of Medicine, New York
- **Postdoc 1999-2003** Cell signaling & gene regulation, Albert Einstein College of Medicine, Yeshiva University, New York

POSITIONS & EMPLOYMENT

1988 – 1992: Staff Scientist, Institute of Hematology and Blood Transfusion, Prague, Czech Rep.
1991: Visiting Scientist, Istituto di Oncologia Clinica e Sperimentale, University of Genoa, Italy.
1992 – 1994: Res. Assistant, M.D. Anderson Cancer Center, University of Texas, Houston, TX.
1994 – 1998: Graduate student, Biomedical Sciences, Charles University, Prague, Czech Rep.
1998 – 1999: Postdoctoral Research Associate, Mount Sinai School of Medicine, New York, NY.
1999 – 2003: Postdoctoral Research Associate, Albert Einstein College of Medicine, Bronx, NY.
2003 – present: Assistant Professor, Pathology, NYU School of Medicine, New York, NY.
2006 – present: Adjunct Professor, 1st Medical Faculty, Charles University, Prague, Czech Rep.

OTHER EXPERIENCE & PROFESSIONAL MEMBERSHIPS

2001 – 2007: Member, American Association for Cancer Research (AACR).
2001 – present: Member, Internal Advisory Board, Microarray Resource Center, AMDeC Inc.
2002 – 2003: Scientific Supervisor, Albert Einstein Biotechnology Center, Bronx, NY.
2003 – 2009: Assistant Director, NYU Cancer Institute Genomics Facility, New York, NY.
2003 – present: Member, Oversight Committee Genomics & Bioinformatics, NYU Cancer Inst.
2003 – present: Member, New York Academy of Sciences (NYAS).
2004 – 2008: Member, Stem Cell Biology Program, NYU Cancer Institute, NY.
2005 – present: Member, The Epithelio-Mesenchymal Transition International Association
2008 – present: Member, Steering Committee for NYU Genome Technology Center
2008 – present: Member, NYU Center for Health Informatics and Bioinformatics, Best Practices Informatics Consultation Core
2009 – present: Assistant Director, NYU Genome Technology Center

TEACHING

Molecular Signaling and Drug Design Course (Course ID G16.2404, Timothy Cardozo), 2006-2009 Sackler Institute of Graduate Biomedical Studies, New York University Medical Center

Medical Genomics; Fall 2007, Medical Resident Core Curriculum, Department of Medicine, NYU School of Medicine

MENTORING

Master of Science Program, Charles University, Prague
 1996-1999: Petr SVOBODA, Sarka SIMECKOVA, Dana ZAKOVA

Doctoral Program, Charles University, Prague

2001-2007: Lukas CERMAK

THESIS COMMITTEES

Doctoral Program, Sackler Institute of Graduate Biomedical Studies, NYU School of Medicine
2004 – present: Maddison HARRELL, Maria Sol FLAHERTY

AD HOC REVIEWER - JOURNALS

Antioxidants & Redox Signaling (Liebert Publishers)
British Journal of Cancer (Cancer Research UK)
Cancer Epigenetics (CRC Press)
Cancer Research (AACR Journals)
Cells Tissues Organs (Karger Press)
DNA and Cell Biology (Liebert Publishers)
International Journal of Cancer (Wiley-Liss, Inc)
Journal of the American Society of Nephrology (ASN)
Journal of Biological Chemistry (ASBMB)
Journal of Cellular Biochemistry (Rockefeller University Press)
Journal of Cellular and Molecular Medicine (Blackwell Publishing)
Molecular and Cellular Biology (ASM)
Neoplasia (Nature Publishing Group)
Oncogene (Nature Publishing Group)

AD HOC REVIEWER - GRANTS

2007 British Skin Foundation Grants
2008 Council for Chemical Sciences (CW) of the Netherlands Organisation for Scientific Research (NWO)
2009 Health Research Board (HRB), Ireland
2009 NIH/National Heart, Lung, and Blood Institute; Scientific Review Group 2009/05 ZHL1 CSR-N (M1).
2009 National Science Foundation

CONFERENCE CO-CONVENOR

Organizing Committee Member: First International Symposium on Gene Regulation in Health and Disease. April 19, 2007, First Medical Faculty, Charles University, Prague, Czech Republic

HONORS AND AWARDS

1991 Visiting Fellowship of the Government of Italy, University of Genoa, Italy.
2002 American Association for Cancer Research-Sidney Kimmel Foundation for Cancer Research Fellowship in Basic Research.
2003 AACR-AFLAC Incorporated Scholar in Training Award for the American Association for Cancer Research 94th Annual Meeting.

INVITED LECTURES

May 2000 Molecular Virology Laboratory, Columbia University, New York, NY
Jan 2002 Minisymposium on Cell Plasticity, Faculty of Science, Charles University, Prague, Czech Republic
Mar 2004 Keynote Speaker, New York Skin Biology Club, New York Academy of Sciences, New York, NY
Mar 2005 INSERM, Institut de recherche sur la peau, Hôpital Saint-Louis, Paris, France
Feb 2006 Department of Pharmacological Sciences, State University of New York, Stony Brook, NY
Oct 2006 Department of Molecular and Cellular Biology, Roswell Park Cancer Institute, Buffalo, New York

- Nov 2006** Grand Rounds Series, Leukemia Department, M.D. Anderson Cancer Center, Houston, TX
- Apr 2007** First International Symposium on Gene Regulation in Health and Disease, 1st Medical Faculty, Charles University, Prague, Czech Republic
- Oct 2007** Center for Matrix Biology, Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, MA
- Jan 2008** Symposium on Cancer and Signaling, New York Academy of Sciences, New York
- May 2008** Nephrology Department, Erasme Hospital, Université Libre de Bruxelles, Belgium
- Sep 2008** FEBS Symposium, Structural variations in genomes, gene expression, Charles University, Prague, Czech Republic
- May 2009** Keynote Speaker, Neurogenomics and Neuroimaging of Developmental Disorders, Dubrovnik, Croatia

PUBLICATIONS

1. Krepelova A., Vorlova Z., ZAVADIL J., Brdicka R. Factor VIII gene deletions in haemophilia A patients in Czechoslovakia. **BR J HAEMATOL.** 1992; 81 (2): 271-276.
2. Nagarajan L., ZAVADIL J., Claxton D., Lu X., Fairman J., Warrington J.A., Wasmuth J.J., Chinault A.C., Sever C.E., Slovak M.L., Willman C.L., Deisseroth A.B. Consistent loss of the D5S89 locus mapping telomeric to the interleukin gene cluster and centromeric to EGR-1 in patients with 5q- chromosome. **BLOOD** 1994; 83 (1): 199-208.
3. ZAVADIL J., Brezinova J., Svoboda P., Zemanova Z., Michalova K. Smad5, a tumor suppressor candidate at 5q31.1, is hemizygotously lost and not mutated in the retained allele in human leukemia cell line HL60. **LEUKEMIA** 1997; 11 (8): 1187-1192.
4. Jarolim P., Shayakul C., Prabakaran D., Jiang L., Stuart-Tilley A., Rubin H.L., Simova S., ZAVADIL J., Herrin J.T., Brouillette J., Somers M.J., Seemanova E., Brugnara C., Guay-Woodford L.M., Alper S.L. Autosomal dominant distal renal tubular acidosis is associated in three families with heterozygosity for the R589H mutation in the AE1 (band 3) Cl-/HCO3- exchanger. **J BIOL CHEM** 1998; 273 (11): 6380-6388.
5. ZAVADIL J., Svoboda P., Liang H., Kottickal L.V., Nagarajan L. An Antisense Transcript to SMAD5 Expressed in Fetal and Tumor Tissues. **BIOCHEM BIOPH RES CO** 1999; 255(3):668-672.
6. Cmejla R., Blafkova J., Stopka T., ZAVADIL J., Pospisilova D., Mihal V., Petrylova K., Jelinek J. Ribosomal protein S19 gene mutations in patients with Diamond-Blackfan anemia and identification of ribosomal protein S19 pseudogenes. **BLOOD CELL MOL DIS.** 2000 Apr;26(2):124-32.
7. ZAVADIL J., Bitzer, M., Liang, D., Yang, Y.-C., Massimi, A., Kneitz, S., Piek, E. and Bottinger, E.P.. Genetic Programs of Epithelial Plasticity Directed by TGF- β . **P NATL ACAD SCI USA.** 2001, 98: 6686-6691.
8. Böttinger, E.P.; Ju, W.; ZAVADIL J., Applications for Microarrays in Renal Biology and Medicine. **EXP NEPHROL** 2002 10(2):93-101.
9. Fuchs O., Simakova O., Klener P., Cmejlova J., Zivny J., ZAVADIL J., Stopka T. Inhibition of Smad5 in Human Hematopoietic Progenitors Blocks Erythroid Differentiation Induced by BMP4. **BLOOD CELLS MOL DIS**, 2002, 28(2):221-233.
10. Wang W., Wyckoff J.B., Frohlich V.C., Oleynikov Y., Hüttelmaier S., ZAVADIL J., Cermak L., Bottinger E.P., Singer R.H., White J., Segall J.E. and Condeelis J.S. Single cell behavior in metastatic primary mammary tumors correlated with gene expression patterns revealed by molecular profiling. **CANCER RES.** 2002, 62: 6278-6288.
11. Goswami S., Sheets N., ZAVADIL J., Chauhan B.K., Bottinger E.P., Reddy V.N., Kantorow M. and Cvekl A. The Spectrum and Range of Oxidative Stress Responses of Human Lens Epithelial Cells to H₂O₂ Insult: a cDNA Microarray Study. **INVEST OPHTH VIS SCI**, 2003, 44(5):2084-93.
12. Yang YC, Piek E, ZAVADIL J., Liang D, Xie D, Heyer J, Pavlidis P, Kucherlapati R, Roberts AB, Bottinger EP. Hierarchical model of gene regulation by transforming growth factor beta. **P NATL ACAD SCI USA**, 2003 Sep 2;100(18):10269-74.

13. ZAVADIL J., Cermak L., Soto-Nieves N., Bottinger E.P. Integration of TGF- β /Smad and Jagged1/Notch signalling in epithelial-to-mesenchymal transition. **EMBO J**, 2004, Mar 10;23(5):1155-65.
14. Petkov PM, ZAVADIL J. (*first co-authorship*), Goetz D, Chu T, Carver R, Rogler CE, Bottinger EP, Shafritz DA, Dabeva MD. Gene expression pattern in hepatic stem/progenitor cells during rat fetal development using cDNA microarrays. **HEPATOLOGY**, 2004, March; 39(3):617-27.
15. Cvekl A. Jr., ZAVADIL J., Birshtein B.K., Grotzer M.A. and Cvekl A. Analysis of transcripts from 17p13.3 in medulloblastoma suggests ROX/MNT as a potential tumour suppressor gene. **EUR J CANCER**, 2004, 40(16):2525-32.
16. ZAVADIL J. and Böttinger E.P. TGF β and Epithelial-to-Mesenchymal Transitions. **ONCOGENE**, 2005, 24(37):5764-74
17. Saito M., O'Brien D., Kovacs K.M., Wang R., ZAVADIL J. and Vadasz C. Nicotine-Induced Sensitization in Mice: Changes in Locomotor Activity and Mesencephalic Gene Expression. **NEUROCHEM RES** 2005, Aug; 30(18):1027-35.
18. Qing X., ZAVADIL J., Crosby M.B., Hogarth M.P., Hahn B.H., Mohan C., Gilkeson G.S., Bottinger E.P., Putterman C. Nephritogenic Anti-DNA antibodies regulate gene expression in MRL/lpr mouse glomerular mesangial cells. **ARTHRITIS RHEUM.** 2006, Jun 27;54(7):2198-2210.
19. Harrell, M.D., Harbi, S., Hoffman, J.F., ZAVADIL J., Coetzee, W.A. A Large-Scale Analysis of Ion Channel Gene Expression in the Mouse Heart during Perinatal Development. **PHYSIOL GENOMICS**, 2007 Feb 12;28(3):273-83.
20. Vadasz C., Saito M., O'Brien D, ZAVADIL J., Morahan G., and Wang R. Ventral Tegmental Transcriptome Response to Intermittent Nicotine Treatment in BALB/cJ, C57BL/6ByJ, and Quasi-Congenic RQI mice. **NEUROCHEM RES**, 2007 MAR;32(3):457-80.
21. ZAVADIL J., Narasimhan M., Blumenberg M. and Schneider R.J. TGF- β and microRNA:mRNA regulatory networks in epithelial plasticity. **CELLS TISSUES ORGANS**, 2007, 185 (1-3):157-161.
22. Blumenberg M., Gao S., Dickman K., Grollman A.P., Bottinger E.P. and ZAVADIL J. Chromatin structure regulation in TGF- β -directed epithelial-mesenchymal transition. **CELLS TISSUES ORGANS**, 2007, 185 (1-3):162-174.
23. Clancy R., Zheng P., O'Mahoney M., Izmirly P., ZAVADIL J., Gardner L., Buyon J.P. Role of Hypoxia and cyclic AMP in the Transdifferentiation of Human Fetal Cardiac Fibroblasts: Implications for Progression of the Pathologic Cascade to Congenital Heart Block. **ARTHRITIS RHEUM.** 2007, 56(12):4120–4131.
24. Yano S., ZAVADIL J., Strober B.E., Haider A.S., Blumenberg M. Transcriptional profiling analysis applied to psoriasis. **G ITAL DERMATOL VENEREOL.** 2007; 142(5) 519-31.
25. Pontoriero G.F, Deschamps P, Ashery-Padan R., Wong R., Yang Y., ZAVADIL J., Cvekl A., Sullivan S., Williams T. and West-Mays J.A. Cell Autonomous Roles for AP-2a in Lens Vesicle Separation and Maintenance of the Lens Epithelial Cell Phenotype. **DEV DYN.** 2008, 237(3):602-17
26. Ramirez-Valle F., Braunstein S., ZAVADIL J., Formenti S.C. and Schneider R.J. eIF4GI links nutrient sensing to cell proliferation and inhibition of autophagy by selective mRNA translation. **J CELL BIOL.** 2008, 181: 293-307.
27. Kokavec J., Podskocova J., ZAVADIL J. and Stopka T. Chromatin remodeling and SWI/SNF2 factors in human disease. **FRONT BIOSCI.** 2008; 13:6126-6134.
28. Thompson B.J., Jankovic V., Gao J., Buonamici S., Vest A., Lee J.M., ZAVADIL J., Nimer S.D. and Aifantis I. Control of hematopoietic stem cell quiescence by the E3 Ubiquitin Ligase Fbw7. **J EXP MED**, 2008; 205(6):1395-408.
29. Carrera I., ZAVADIL J., Treisman J.E. Two subunits specific to the PBAP chromatin remodeling complex have distinct and redundant functions during Drosophila development. **MOL CELL BIOL.** 2008; 28(17):5238-50.
30. Saleem M.A., ZAVADIL J., Witherden I.R., Hsu H., Sanday J., Satchell S.C., Lennon R., Ni L., Bailly M., Bottinger E.P., Mundel P., Mathieson P.W. The molecular and functional phenotype of glomerular podocytes reveals key features of contractile smooth muscle cells. **AM J PHYSIOL-RENAL PHYSIOL.** 2008 Oct;295(4):F959-70

31. ZAVADIL J., Haley J., Kalluri R., Muthuswamy S.K., Thompson, E.W. Epithelial-Mesenchymal Transition. Cold Spring Harbor Laboratory March 14-17, 2008, **CANCER RES**, Dec 1, 2008; 68 (23).
32. Margueron R., Li G., Sarma K., Blais A., ZAVADIL J., Woodcock C.L., Dynlacht B.D., and Reinberg D. Ezh1 and Ezh2 maintain repressive chromatin through different mechanisms. **MOL CELL**, 2008, 32 (4):503-518.
33. Wolf L.V., Yang Y., Wang J., Xie Q., ZAVADIL J., and Cvekl A. Identification of Pax6-dependent Gene Regulatory Networks in the Mouse Lens. **PLoS ONE**. 2009, Volume 4, Issue 1, e4159.
34. ZAVADIL J. New TGF-beta and Ras crosstalk in EMT. **CELL CYCLE**, 2009, 15;8(2).
35. Blum R., Gupta R., Burger P.E., Ontiveros C.S., Salm S.N., Xiong X., Kamb A., Wesche H., Marshall L., Cutler G., ZAVADIL J., Moscatelli D. and Wilson E.L. Molecular Signatures of Prostate Stem Cells Reveal Novel Signaling Pathways and Provide Insights into Prostate Cancer. **PLoS ONE**. 2009, May 29;4(5):e5722.
36. Buonamici S., Trimarchi T., Ruocco M.G., Reavie L., Cathelin S., Mar B.G., Klinakis A., Lukyanov Y., Tseng J.C., Sen F., Gehrie E., Li M., Newcomb E., ZAVADIL J., Meruelo D., Lipp M., Ibrahim S., Efstratiadis A., Zagzag D., Bromberg J.S., Dustin M., and Aifantis I. CCR7 signaling as an essential regulator of CNS infiltration in T cell leukemia. **NATURE**, 2009, 459:1000-1004.
37. Flaherty M. S., ZAVADIL J., Ekas L. A., Rodrigues, A. B. and Bach, E. A. Genome-wide expression profiling in the Drosophila eye reveals unexpected repression of Notch signaling by the JAK/STAT pathway. **DEV DYN**, 2009, Jun 4. [Epub ahead of print].
38. Jag U., ZAVADIL J., Stanley F.M. Insulin acts through FOXO3a to activate transcription of PAI-1. **MOL ENDOCRINOL**. 2009 Jul 16. [Epub ahead of print]
39. Iglesias-Ussel M.D., ZAVADIL J., Scharff M.D. Molecular characterization of hybridoma subclones spontaneously switching at high frequencies in vitro. **J IMMUNOL METHODS**. 2009 Jul 17. [Epub ahead of print]
40. Burda P., Curik N., Kokavec J., Basova P., Mikulenкова D., Skoultchi A.I. ZAVADIL J. and Stopka T. PU.1 activation relieves GATA-1-mediated repression on Cebpa and Cbfb during leukemia differentiation. **MOL CANCER RES**. 2009 *In Press*.
41. Bogunovic D., O'Neill D., Belitskaya-Levy I., Vacic V., Yu Y.L. Adams S., Darvishian F., Berman R., Shapiro R., Pavlick A., Lonardi S., ZAVADIL J., Osman I., Bhardwaj N. Immune profile and mitotic index of metastatic melanoma lesions enhance clinical staging in predicting patient survival. **P NATL ACAD SCI USA**. 2009. *Second submission*.
42. Reavie L., Dela Gatta G., Thomson B., Palomero T., ZAVADIL J., Alt F.W., Sleckman B.P., Ferrando A. and Aifantis I. Adult Stem Cell Quiescence Regulated by a Single Ubiquitin Ligase:Substrate Complex. **NAT IMMUNOL**, *First submission*.
43. Méndez O., ZAVADIL J., Lukyanov Y., Santovasi D., Wang S.C, Newcomb E.W. and David Zagzag D. HIF-1a function is required in glioma cells for migration in vitro, invasion in vivo and for the ability to form tumor spheres. **ONCOGENE**, *First Submission*.

BOOK CHAPTERS

44. Nagarajan L., ZAVADIL J., Lu X., Fairman J., Claxton D., Zhao L., Liang J.C., Deisseroth A.B. Molecular Analysis of 5q-chromosome: Characterization of a Yeast Artificial Chromosome from the Clinical Region of Loss. In: Nader GA, Shaddock RK, Levine AS, Takaku F, Editors. **Molecular Biology of Hematopoiesis**. Karger Press, 1994:353-363.
45. Böttinger EP, Novetsky A., ZAVADIL J. RNA labeling and Hybridization of DNA Microarrays. In: Michael S. Goligorsky M.S., Editor. **Methods in Molecular Biology: Renal Disease Protocols**. 2003;86:275-84. The Humana Press Inc., Totowa, NJ.
46. ZAVADIL J. and Bitzer M. MicroRNAs in Epithelial Cell Plasticity and Carcinogenesis. Human epithelial neoplastic cell plasticity: Implications for tumor progression and metastasis. **Cell Physiology**. Higgins P.J., Editor. 2008. *In press*.

47. Lee D.-D., ZAVADIL J., Tomic-Canic M., Gazel A. and Blumenberg M. Comprehensive transcriptional profiling of human epidermis, reconstituted epidermal equivalents and cultured keratinocytes, using DNA microarray chips. ***Epidermal Cells: Methods and Protocols***. K. Turksen, Editor. Springer-Verlag New York, LLC. *In press*.

MEETINGS– ORAL PRESENTATIONS

1. ZAVADIL J., Integrative mRNA, microRNA and proteomic profiling - lessons from disease models. *Neurogenomics and Neuroimaging of Developmental Disorders, Symposium and Workshops*, April 30 - May 05, **2009**, Dubrovnik, Croatia.
2. ZAVADIL J., Gene regulatory networks in human uterine leiomyomas. Structural variations in genomes, gene expression, FEBS Symposium, September 12-20, **2008**, Charles University, Prague, Czech Republic
3. ZAVADIL J., Dickman K., Gao S., Jing X., Josic D., Miller F., Bitzer M., Grollman A.P. *2008 CSHL Meeting on Epithelial-Mesenchymal Transition in Cancer*. Modeling EMT and Fibrosis in mouse models of progressive nephropathy. March 17 - 20, **2008**, Cold Spring Harbor, NY.
4. ZAVADIL J., MicroRNAs and Gene Regulation in EMT. *Life or Death Decisions; The Epithelial-Mesenchymal Transition in Cancer and Metastasis*. January 24, **2008**, New York Academy of Science, NY.
5. ZAVADIL J., Dickman K., Bitzer M., Jelinek J, Grollman A.P. and Blumenberg M. Gene Regulation Network Analysis Suggests Epigenetic Mechanism for Silencing of TIMP3 in EMT. *3rd Epithelial-Mesenchymal Transition Meeting, EMBO Workshop*, co-organized by TEMTIA and Marie-Curie Epiplastcarcinoma RTN network, 10-12 September, **2007**, Cracow, Poland.
6. ZAVADIL J., Gao S., Dickman K., Dong H., Bitzer M., Miller F. and Grollman A.P. Gene regulatory networks of aristolochic acid-associated nephropathy (AAN). *First International Symposium on Gene Regulation in Health and Disease*. First Medical Faculty, Charles University, April 19, **2007**, Prague, Czech Republic.
7. ZAVADIL J., Benda P., Čuřík N., Kokavec J., Skoultchi A.I., Stopka T. Identification of early events during leukemia differentiation mediated by GATA-1/PU.1 antagonism. *First International Symposium on Gene Regulation in Health and Disease*. April 19, 2007, First Medical Faculty, Charles University, Prague, Czech Republic
8. ZAVADIL J., Gao S., Dickman K., Bitzer M., Miller F., Grollman A. Toxicogenomics of Endemic Nephropathy. *Symposium on Recent Advances in Endemic Nephropathy, School of Medicine, University of Zagreb*, October 20-22, **2006**. Zagreb, Croatia.
9. Jassal P., Mukty M., Bottinger E.P., Blumenberg M., Grollman A.P., ZAVADIL J. Novel targets of Hairy/Enhancer-of-split-mediated gene repression in EMT. *The 2nd Epithelial Mesenchymal Transition (EMT) Conference*, Vancouver, B.C., Canada, October 1-3, **2005**
10. ZAVADIL J., Cermak L., Bottinger E.P. TGF- β Activation of the Notch Function Is Required for Epithelial-to-Mesenchymal Transition. July 11-14, **2003**. *American Association for Cancer Research 94th Annual Meeting* in Washington, DC.
11. ZAVADIL J., Cermak L., Bitzer M., Yang Y.-C., Liang D., Massimi A., Piek E. and Bottinger E. P. Prague, Genetic Programs of Induced Epithelial-to-Mesenchymal Transition. *Minisymposium on Cell Plasticity, Faculty of Natural Science, Charles University*, January 2, **2002**, Prague, Czech Republic.
12. ZAVADIL J., Liang D., Yang Y.-C., Bitzer M., Piek E. and Bottinger E.P. Global Gene Expression Monitoring in TGF-beta Induced Epithelial Mesenchymal Transdifferentiation. *The American Society of Nephrology 33rd Annual Meeting*, October 13-16, **2000**, Toronto, Ontario.
13. ZAVADIL J., Bitzer M., Yang Y.-C., Liang D., Massimi A., Piek E. and Bottinger E.P. Gene Expression Signatures of TGF-beta Signaling in Human Keratinocytes. *The American Society of Cell Biology 40th Annual Meeting*, December 9-13, **2000**, San Francisco, CA.

MEETING ABSTRACTS

1. Takacova S., ZAVADIL J., Bartek J., Divoky V., DNA Damage Response is a Barrier in the Mixed Lineage Leukemia Development. *The American Society of Hematology 51th Annual Meeting*, December 5-8, **2009**, New Orleans, LA.
2. Stopka T., Vargova K., Burda P., Kokavec J., Curik N., Berkova A., Trneny M., Skoultchi A.I., ZAVADIL J. miR-155 and Myb proto-oncogene family members cooperate in pathogenesis of chronic lymphocytic leukemia. *The American Society of Hematology 51th Annual Meeting*, December 5-8, **2009**, New Orleans, LA.
3. Burda P, Nikola Curik N., Kokavec J., Mikulenkova D., Skoultchi A.I., ZAVADIL J., Stopka T. PU.1 Relieves Its GATA-1-Mediated Repression near Cebpa and Cbfb During Transdifferentiation of Murine Erythroleukemia - Tool of Inducing Leukemic Blasts to Differentiate. *The American Society of Hematology 51th Annual Meeting*, December 5-8, **2009**, New Orleans, LA.
4. Hogan L., Bhojwani D., Wang J., Morrison D., Yang J.J., Zhang Y., ZAVADIL J., Condos G., Hunger S.P., Relling M.V., Raetz E., Carroll W.L. Up-Regulation of Genes Involved in Folate Metabolism Characterize Late but Not Early Relapse in Childhood Acute Lymphoblastic Leukemia. *The American Society of Hematology 51th Annual Meeting*, December 5-8, **2009**, New Orleans, LA.
5. Čuřík N., Burda P., Vargová K., Bašová P., Kokavec J., ZAVADIL J., Stopka T. PU.1 and E-box proteins cooperate in the regulation of the BIC gene encoding microRNA-155. *Olomouc Haematology Days, Czech Haematological Association*, June 24-27, **2009**, Olomouc, Czech Republic.
6. Burda P., Čuřík N., Bašová P., Kokavec J., Zikmund T., ZAVADIL J., Stopka T. Active chromatin structure upstream of human BIC gene encoding microRNA-155 in CML. *Olomouc Haematology Days, Czech Haematological Association*, June 24-27, **2009**, Olomouc, Czech Republic.
7. Transcription factor PU.1 regulates hematopoietic differentiation by a mechanism of mutual inhibition of Egr2 and the oncogenic microRNA cluster miR-17-92 – a potential role in AML. Pospíšil V., Vargova K., Kokavec J., Rybarova J., Burda P., Necas E., ZAVADIL J., Stopka T. *Olomouc Haematology Days, Czech Haematological Association*, June 24-27, **2009**, Olomouc, Czech Republic.
8. Bogunovic D., O'Neill D., Belitskaya-Levy I., Vacic V., Adams S., Darvishian F., Pavlick A., ZAVADIL J., Osman I., and Bhardwaj N.. Gene expression profile and mitotic index in metastatic melanoma improve upon TNM staging in predicting patient survival. *2009 American Society of Clinical Oncology (ASCO) Annual Meeting*. May 29 – June 2, **2009**, Orlando. FL.
9. Cvekl A., Yang Y., Wang J., Xie Q., Wolf L., ZAVADIL J. Identification and chromatin structure of Pax6 target genes in mouse lens, pancreas, and cortex. *Keystone Symposia: Chromatin Dynamics and Higher Order Organization*. February 25 - March 2, **2009**, Coeur d'Alene, ID.
10. ZAVADIL J., Dickman K., Wang J., Josic D., Grollman A.P. Integrative analysis of gene regulatory networks underlying the nephrotoxic response to aristolochic acid. *Keystone Symposia: Omics Meets Cell Biology*. January 25 - 30, **2009**, Beaver Run Resort, Breckenridge, CO.
11. Stopka T., Vargova K., Berkova A., Trneny M., Kokavec J., ZAVADIL J. Disruption of negative feedback loop between PU.1 and miR-155 is a putative pathogenesis factor in chronic lymphocytic leukemia (CLL). *The American Society of Hematology 50th Annual Meeting*, December 6-9, **2008**, San Francisco, CA.
12. Pospisil V., Vargova K., Burda P., Kokavec J., Necas E., ZAVADIL J., Stopka T. Transcription Factors PU.1 and EGR2 Inhibits the Oncogenic MicroRNA Cluster Mir-17-92 during Macrophage Differentiation. *The American Society of Hematology 50th Annual Meeting*, December 6-9, **2008**, San Francisco, CA.
13. Takacova S., ZAVADIL J., Slany R., Divoky V. Identification of MLL target genes in mouse embryonic stem cells using an integrative genomic analysis in a “gain-of-function” cell model. *The 6th International Society for Stem Cell Research Annual Meeting*, June 11-14, **2008**, Philadelphia, PA
14. Carrihill L.L., ZAVADIL J., Phoon C.K.L. Gene expression profiling in an embryonic mouse model of outflow tract regurgitation. [abstract] (Platform presentation by Ms. L. Carrihill at the *American Academy of Pediatrics National Convention and Exhibition, Section on Cardiology and Cardiac Surgery*, October 11, **2008**, Boston, MA) *Congenit Heart Dis* 2008; 3:390-391.
15. Bogunovic D., O'Neill D., Adams S., Wang J., Darvishian F., Pavlick A.C., Shapiro R.L., ZAVADIL J., Belitskaya-Levy, I. Osman I., Bhardwaj N.. Gene expression profile for metastatic melanoma and patient survival. *2008 American Society of Clinical Oncology (ASCO) Annual Meeting*. May 30 – June 3, **2008**, Chicago. IL.

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FINANCIAL SUPPORT

5 P01 ES004068-20 Grollman (PI) NIH/NIEHS <i>Molecular Toxicology of DNA Adducts</i> Status: Active Role: Co-investigator 1.8 cal months	07/01/2007-06/30/2012 \$ 985,703
5 P30 CA16087-28 Carroll (PI) NIH/NCI <i>Cancer Center Support Core Grant</i> Status: Active Role: Co-Investigator 3 cal months	03/01/2008-02/28/2014 \$1,560,022
R21 HL094826 Laal (PI) NIH/NHLBI <i>TB Diagnosis Based on Promiscuous PE-PGRS Epitopes</i> Status: Active Role: Collaborator 0.36 cal months	04/01/2009-03/31/2011 \$275,000
1 U54 RR024386-01A1 Cronstein (PI) NIH/NCRR <i>NYU-HHC Clinical Translation Science Award</i> Status: Pending Role: Co-Investigator 0.36 cal months	07/01/2009-6/30/2014 \$6,134,329