

Curriculum Vitae

Jiri ZAVADIL, PhD
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<http://pathology.med.nyu.edu/people/faculty/zavadil-jiri>

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EDUCATION

Year	Degree	Field	Institution
1983		Comprehensive	Jan Kepler Gymnasium, Prague
1988	MSc	Biochemistry & Biotechnology	Inst. of Chemical Technology, Prague
1998	PhD	Biomedicine & Molecular Genetics	Charles University, Prague

POSTDOCTORAL TRAINING

1998-99	Developmental hematopoiesis, Mount Sinai School of Medicine, New York
1999-2003	Cell signaling & gene regulation (E.P. Bottinger), Albert Einstein College of Medicine, Yeshiva University, New York

LICENSURE AND CERTIFICATION

N/A

ACADEMIC APPOINTMENTS

2003- Assistant Professor (Res) of Pathology, NYU School of Medicine

HOSPITAL APPOINTMENTS

N/A

OTHER PROFESSIONAL POSITIONS AND VISITING APPOINTMENTS

1991	Visiting Scientist, Istituto di Oncologia Clinica e Sperimentale, University of Genoa
1992 – 1994	Res. Assistant, M.D. Anderson Cancer Center, University of Texas System, Houston, TX.
2002 – 2003	Scientific Supervisor, Albert Einstein Biotechnology Center, Bronx, NY.
2008 –	Faculty Member, NYULMC Center for Health Informatics and Bioinformatics (CHIBI)

AWARDS AND HONORS

1991	Scientific 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.

MAJOR COMMITTEE ASSIGNMENTS

Regional:

2001- Member, Internal Advisory Board, Genomic Analysis and Technology Excellence (GATE, formerly Microarray Resource Center), AMDeC Inc.

NYU School of Medicine:

2003 – 2008 Member, Oversight Committee Genomics & Bioinformatics, NYUCI
2008 Member, Steering Committee for NYU Genome Technology Center
2005 – *Ad hoc* Member, Search committees for Depts. of Pathology, Environmental Science, Medicine, Office of Collaborative Science and NYU Center for Health Informatics and Bioinformatics.
2010 – Member, Curriculum Committee for CTSI Biomolecular Methods Course
2010 – Member, Curriculum Committee for Graduate Training Program NYU Center for Health Informatics and Bioinformatics
2011 – Member, Human Tissue Acquisition and Distribution Committee
2011 – Member, NYULMC Microbiome Search Committee

Ad hoc Grant Reviewer

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 Committee Chair, R13 Review, NIH/National Heart, Lung, and Blood Institute; Scientific Review Group 2009/05 ZHL1 CSR-N (M1)
2009 National Science Foundation
2011 Czech Science Foundation (GACR)

Conference Co-convenor

2007 Organizing Committee, First International Symposium on Gene Regulation in Health and Disease. Charles University, Prague

Memberships, Offices, Committee Assignments In Professional Societies

2001 – 2007: Member, American Association for Cancer Research (AACR)
2003 – 2010: Member, New York Academy of Sciences (NYAS)
2005 – Member, The Epithelio-Mesenchymal Transition International Association
2010 – Member, American Medical Informatics Association (AMIA)
2010 – Member, Association of Biomolecular Resource Facilities (ABRF)

EDITORIAL POSITIONS

Ad hoc reviewer

2003 Journal of Cellular Biochemistry (Rockefeller University Press)
2006 Cells Tissues Organs (Karger Press)
2007 DNA and Cell Biology (Liebert Publishers)
2007 Journal of Cellular and Molecular Medicine (Blackwell Publishing)

- 2007 Cancer Epigenetics (CRC Press)
- 2007 Neoplasia (Nature Publishing Group)
- 2007 Molecular and Cellular Biology (ASM)
- 2008 Journal of the American Society of Nephrology (ASN)
- 2008 British Journal of Cancer (Cancer Research UK)
- 2009 Antioxidants & Redox Signaling (Liebert Publishers)
- 2009 Cancer Research (AACR Journals)
- 2009 International Journal of Cancer (Wiley-Liss, Inc)
- 2009 Journal of Biological Chemistry (ASBMB)
- 2009 Molecular and Cellular Biology (ASM)
- 2009 Oncogene (Nature Publishing Group)
- 2010 Cells Tissues Organs (Karger Press)
- 2010 Journal of Mammary Gland Biology and Neoplasia (Springer)
- 2010 BMC Medical Genomics (BioMedCentral)
- 2011 BMC Genomics (BioMedCentral)

MAJOR ADMINISTRATIVE RESPONSIBILITIES

- 2003 – 2010: Assistant Director NYU Cancer Institute Genomics Facility
- 2010 – Director NYULMC Genome Technology Center

TEACHING EXPERIENCE

- 2007 Molecular Signaling and Drug Design (Sackler, Course ID G16.2404, T. Cardozo),
Lecturer, Contact hours 2 hrs
- 2007 Medical Genomics; Lecturer, Medical Resident Core Curriculum, Department of
Medicine, NYU School of Medicine, Contact hours 2 hrs
- 2008 Molecular Signaling and Drug Design (Sackler, Course ID G16.2404, T. Cardozo),
Lecturer, Contact hours 2 hrs
- 2009 Molecular Signaling and Drug Design (Sackler, Course ID G16.2404, T. Cardozo),
Lecturer, Contact hours 2 hrs
- 2010 Molecular Signaling and Drug Design (Sackler, Course ID G16.2404, T. Cardozo),
Lecturer, Contact hours 2 hrs
- 2011 Molecular Signaling and Drug Design (Sackler, Course ID G16.2404, F. Stanley),
Lecturer, Contact hours 2 hrs
- 2011 CTSI Biomolecular Methods Course Masters of Science Degree in Clinical
Investigation (MSCI), (M. Pillinger, B. Cronstein), Lecturer, Contact hours 2 hrs
- 2011 Postgraduate Course, Genomic Approaches In Biomedical and Translational
Research. University of Zagreb Medical School, Zagreb, Croatia. Guest Lecturer.
Lectures: MicroRNAs as Epigenetic Regulators, Biomarkers, Therapeutic Agents &
Targets; Massively Parallel Sequencing and Future of Genomics. June 27-July 8,
2011. Contact hours 3 hrs.
- 2011 Translating Cancer Discovery into Clinical Practice (Molecular Oncology and
Immunology (MOI) T32, W. Carroll, I. Osman), Lecturer, Contact hours 4 hrs

2011 NIH/NIEHS T32 training grant in Environmental Pulmonary Medicine (W. Rom),
Mentor of postdoctoral fellows in Genomics, Contact hours TBD.

MENTORING OF GRADUATE STUDENTS IN RESEARCH

UNDER DIRECT SUPERVISION:

PAST

<u>Trainee Numbers:</u>	<u>Pre-doctoral</u>	<u>Post-doctoral</u>	<u>Junior Faculty</u>	<u>Total</u>
	<u>3</u>			<u>3</u>

<u>Trainee</u>	<u>Position</u>	<u>Period</u>	<u>Present Position</u>
Petr Svoboda	Pre-MS	1996-1999	Group Leader, Institute of Molecular Genetics CAS, Prague
Sarka Simeckova	Pre-MS	1996-1999	Staff Scientist, Institute of Molecular Genetics CAS, Prague
Dana Zakova	Pre-MS	1996-1999	Staff Scientist, Inst. Hematology & Blood Transfusion, Prague

IN ADVISORY FUNCTION (THESIS COMMITTEE):

PRESENT

<u>Trainee</u>	<u>Program</u>	<u>Role</u>	<u>Period</u>	<u>Supervisor</u>
Maddison HARRELL	Sackler Institute, Doctoral	Thesis Committee Member	2004-	William Coetzee, Pediatrics
Harriet Hailey Ann CLANCY	NYU Environmental Health Sciences	PhD Thesis Committee Member	2011-	Max Costa, Environmental Medicine

PAST

<u>Trainee</u>	<u>Program</u>	<u>Role</u>	<u>Period</u>	<u>Supervisor</u>
Maria Sol FLAHERTY	Sackler Institute, Doctoral	Thesis Committee Member	2004-2009	Erika Bach, Pharmacology

DIRECT PERSONNEL SUPERVISION (SHARED RESOURCE/CORE LAB)

PRESENT

<u>Employee</u>	<u>Role</u>	<u>Period</u>	<u>Specialty</u>
Yutong ZHANG, MS	Supervisor	2005-	Principal Technician in Genomics
Berrin BAYSA, BS	Supervisor	2009-	Senior Res. Technician in Genomics
Elisa VENTURINI, MS	Supervisor	2009-	Assistant Res. Scientist in Genomics

Daniel LEE, BS	Supervisor	2010-	Res. Technician in Genomics
Adam H. LORCH, BS	Supervisor	2011-	Res. Technician in Genomics

PAST

<u>Employee</u>	<u>Role</u>	<u>Period</u>	<u>Supervisor</u>
Diana YANG, MD	Supervisor	2009-2010	Assistant Res. Scientist in Genomics
Lisa CHIN, BS	Supervisor	2004-2008	Senior Res. Technician in Genomics
Poonam JASSAL, BS	Supervisor	2003-2004	Senior Res. Technician in Genomics
Dongxu XIE, MD	Supervisor	2003-2004	Assistant Res. Scientist in Genomics

Grants Received

PRIOR

Sponsoring Agency	Grant & PI	Project Title	Period	Total Direct Costs	Role	% Effort
Internal Grant Agency, Ministry of Health, Czech Republic	IGA 312826-3 Zavadil (PI)	<i>Molecular Characterization of Chromosome-5q Deletions in MDS/AML</i>	01/01/1996 – 12/31/1998	\$96,000	Principal Investigator	50%
Internal Grant Agency, Ministry of Health, Czech Republic	IGA NC5535-3 Zavadil (PI)	<i>Genetic Analysis of Candidate Genes in Acute Myeloid Leukemias and Myelodysplastic Syndromes.</i>	01/01/1999 – 12/31/2001	\$66,000	Principal Investigator	50%
NIH/NCI	5 U01 CA086137-10 Tchou-Wong (PI)	<i>Identification of sputum biomarkers for the early detection of lung cancer</i>	03/01/2009 - 02/28/2010		Co-Investigator	10%

CURRENT

Sponsoring Agency	Grant & PI	Project Title	Period	Total Direct Costs	Role	% Effort
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NIH/NCI	5 P30 CA16087-28 Carroll (PI)	<i>Cancer Center Support Grant</i>	03/01/08- 02/28/14	\$1,560,022	Co-Investigator	40%
NIH/NIEHS	5 P01 ES004068-20 Grollman (PI)	<i>Molecular Toxicology of DNA Adducts</i>	07/01/07- 06/30/12	\$ 985,703	Co-investigator	5%
NIH/NCRR	1U54RR02438 6-01A1 Cronstein (PI)	<i>NYU-HHC Clinical Translation Science Award</i>	07/01/09- 6/30/14	\$4,779,886	Investigator	7%
NIH/NHLBI	R21 HL094826 Laal (PI)	<i>TB Diagnosis Based on Promiscuous PE- PGRS Epitopes</i>	04/01/09- 03/31/11	\$275,000	Co-Investigator	3%
NIH/NIAMS	R01 AR42455- 01 Buyon (PI)	<i>Maternal Autoantibodies: Pathogenesis of Neonatal Lupus</i>	02/01/94- 01/31/13		Co-Investigator	5%

PATENTS N/A

BOARDS AND COMMUNITY ORGANIZATIONS N/A

MILITARY SERVICE N/A

OTHER N/A

BIBLIOGRAPHY

ORIGINAL REPORTS

First and Last Authorship:

1. 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.
2. 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.
3. 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.
4. 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.

5. Petkov P.M.*, 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.
6. ZAVADIL J., Ye H., Liu Z.-J., Wu J.-J. , Lee P., Hernando E., Soteropoulos P., Toruner G., Wei J.-J. Profiling and Functional Analyses of MicroRNAs and Their Target Gene Products in Human Uterine Leiomyomas. **PLoS ONE**. 2010 Aug 24;5(8). pii: e12362.
7. Vargova K., Curik N., Burda P., Basova P., Kulvait V., Pospisil V., Savvulidi F., Kokavec J., Necas E., Berkova A., Obrtlíkova P., Karban J., Mraz M., Pospisilova S., Mayer J., Trnety M.*, ZAVADIL J.*, and Stopka T.* MYB transcriptionally regulates the miR-155 host gene in chronic lymphocytic leukemia. **BLOOD**, 2011 Apr 7;117(14):3816-25. (*=senior co-authorship).
8. Pospisil V., Vargova K., Kokavec J., Rybarova J., Savvulidi F., Jonasova A., Necas E., ZAVADIL J.*, Laslo P.*, and Stopka T.* Epigenetic silencing of the oncogenic miR-17-92 cluster during PU.1-directed macrophage differentiation. **EMBO J**. 2011 *In press*. (*=senior co-authorship).

Collaborative Authorship:

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. 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.
4. 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.
5. 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.
6. 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.

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10. 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.
11. 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.
12. 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.
13. 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.
14. 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
15. 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.
16. 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.
17. 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.
18. 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

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20. 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.
21. 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.
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24. Jag U., ZAVADIL J., Stanley F.M. Insulin acts through FOXO3a to activate transcription of PAI-1. **MOL ENDOCRINOL**. 2009, (10):1587-602.
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27. 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 Dec 1;106(48):20429-34
28. Reavie L., G. Della Gatta, K. Crusio, B. Aranda-Orgilles, S. M. Buckley, B. Thomson, E. Lee, J. Gao, A. L. Bredemeyer, B. A. Helmink, J. ZAVADIL, B. P. Sleckman, T. Palomero, A. Ferrando and I. Aifantis Hematopoietic Stem Cell Differentiation Regulated by a Single Ubiquitin Ligase: Substrate Complex. **NAT IMMUNOL**. 2010, 11(3):207-15.
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- development, tumor formation and stem cell self-renewal in Drosophila. **DEV CELL.** 2010, 18(4):556-68.
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 33. Blum R., Gupta R., Burger P., Ontiveros C., Salm S., Xiong X., Kamb A., Wesche H., Marshall L., Cutler G., Wang X., ZAVADIL J., Moscatelli D., Wilson EL. Molecular Signatures of the Primitive Prostate Stem Cell Niche Reveal Novel Mesenchymal-Epithelial Signaling Pathways. **PLoS ONE.** 2010 Sep 30;5(8). pii: e12362.
 34. Huynh C., Segura M.F., Gaziel A., Menendez S., Darvishian F., Chiriboga L., Levine B., Meruelo D., ZAVADIL J., Marcusson E.G. and Hernando E. Efficient in vivo miRNA targeting of liver metastasis. **ONCOGENE** 2011 Mar 24;30(12):1481-8.
 35. He S., Purity M.K., Wang W.-L., Wolf L., Chauhan B.K., Cveklova K., Tamm E.R., Ashery-Padan R., Metzger D., Nakai A., Chambon P., ZAVADIL J. and Cvekl A.. Chromatin remodeling enzyme Brg1 is required for mouse lens fiber cell terminal differentiation and their denucleation. **EPIGENETICS & CHROMATIN** 2010 Nov 30;3(1):21.
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 37. Chen J.-A., Huang Y.-P.; Mazzoni E.O., ZAVADIL J., Wichterle H. Mir-17-3p Controls Spinal Neural Progenitor Patterning by Regulating Olig2/Irx3 Cross-repressive Loop. **NEURON**, 2011, 69(4): 721-735.
 38. Sun, H., Clancy, H.A., Kluz, T., ZAVADIL, J., Costa M. Comparison of Gene Expression Profiles in Chromate Transformed BEAS-B Cells. **PLoS ONE**, 2011, Mar 18;6(3):e17982.
 39. Ginsberg, S.D., Che, S., Hashim, A., ZAVADIL, J., Cancro, R., Lee, S.H., Petkova, E., Sershen, H.W., and Volavka, J.: Differential regulation of catechol-O-methyltransferase (COMT) expression in a mouse model of aggression. **BRAIN STRUCT FUNCT**, 2011 Apr 22. [Epub ahead of print]
 40. Zhdanova O., Srivastava S., Di L., Zhai L., Tchelebi L., Dworkin S., Johnstone D., ZAVADIL J., Chong M.M., Littman D.R., Holzman L.B., Barisoni B., and Skolnik E.Y. The Inducible

Deletion of Drosha and MicroRNAs In Mature Podocytes Results In A Collapsing Glomerulopathy. **KIDNEY INT**, 2011. May 4. [Epub ahead of print]

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42. Klinakis A., Lobry C., Abdel-Wahab O., Oh P., Haeno H, Buonamici S., van de Walle I., Cathelin S., Trimarchi T., Araldi E, Liu S., Ibrahim S., Beran M., ZAVADIL J., Efstratiadis A., Taghon T., Michor F., Levine R., and Aifantis I. A novel tumor suppressor function for the Notch pathway in myeloid leukemia. **NATURE**, 2011 May 12;473(7346):230-3.
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