CURRICULUM VITAE - Katya Ravid

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I. ACADEMIC BACKGROUND

Education:

1985	Doctor of Sciences, Biology (thesis in Biochemistry), Technion, Israel Institute of Technology, Haifa, Israel (*with distinction*)
1979	Bachelor of Science, Technion, Israel Institute of Technology, Haifa, Israel (*with distinction*)

Postdoctoral Training:

1988 -1991	Postdoctoral Associate, Department of Biology, Massachusetts Institute of Technology, Cambridge, MA
1986 -1988	Postdoctoral Fellow, Department of Biochemistry, Brandeis University, Waltham, MA

Academic and Other Appointments:

1999-Present	Professor of Biochemistry and Medicine (since 1999) and Professor of Medicine and Biochemistry (since 2009), Boston University School of Medicine, Boston, MA
2009-Present	Founding Director, Evans Center for Interdisciplinary Biomedical Research, Boston University School of Medicine, Boston, MA (http://www.bumc.bu.edu/evanscenteribr)
1994-Present	Scientific Director and Founder, Boston University Transgenic Core (since 1994) and Animal Research Resource Center (since 2008), Boston University School of Medicine, Boston, MA (www.bumc.bu.edu/transgenic)
2003-Present	Director of institutional Training Program in Cardiovascular Biology, NHLBI-supported Program (www.bumc.bu.edu/cardiograd)
1993-Present	Investigator, Whitaker Cardiovascular Institute, Boston University School of Medicine, Boston, MA
1993-Present	Member, Cancer Research Center (*Cell Cycle Program Director; 2001-2007)*, Boston University School of Medicine, Boston, MA
1995-1999	Associate Professor of Biochemistry, Research Associate Professor of Medicine, Boston University School of Medicine, Boston, MA
1993-1995	Assistant Professor of Biochemistry, Research Assistant Professor of Medicine, Boston University School of Medicine, Boston, MA
1992	Instructor of Medicine, Harvard Medical School, and Investigator, The Center for Blood Research (CBR), Boston, MA (offered an Assistant Professor position at the CBR and Harvard Medical School to commence in 1993)
1985	Research Associate, Department of Biology, Technion, Haifa, Israel (half-year gap between graduation and matriculation of post doc training)

Awards:

2014	Weizmann Institute Visiting Professorship Award (Rosi and Max Varon Professorship Award; awarded in 2013 to matriculate in 2014)
2013	Department of Medicine Robert Dawson Evans *Teaching Award*, BUSM
2009	International Professor Fellowship Award, University of Sydney (Dean, Prof Merlin Crossley, School of Molecular and Microbial Biosciences)
2006	*Educator of the Year Award*, Graduate Medical Sciences, Boston University School of Medicine
2005	American Technion Society Patronage Award to Alumni Academicians
2005	Established Investigator Award, American Heart Association
1997	Grant-In-Aid Award for Young Investigators, American Heart Association
1986, 1987	Weizmann Postdoctoral Fellowship Award (selected from a national pool to pursue training abroad); awarded by the Weizmann Institute, Israel
1982	Gutwirth Prize for Outstanding Graduate Students, Technion, Israel Institute of Technology

International, National and Regional Review and Scientific Committees/Programs:

2013	Chair, Gordon Research Conference on *Cell Biology of Megakaryocytes and Platelets*
2013	Planning Committee, American Society of Hematology 2014 Scientific Program Sessions
2013-2016	American Society of Hematology Thrombosis and Vascular Biology Scientific Committee
2013	Reviewer, NHLBI Progenitor Cell Biology Consortium (PCBC)- Ancillary and Collaborative studies
2013	Reviewer, Hungarian Scientific Research Fund (OTKA)
2012	Program Committee, International Purines Meeting, Fukuoka, Japan (http://www.purine2012.org/commitees/index.html)
2012	Reviewer for the Medical Research Council (MRC), UK
2011	Chair, Boston University School of Medicine Provost Multidisciplinary Research Conference (*Nano, Metabolic and Inflammatory Routes to Cardiovascular Disease*; 11.9.11)
2011 (June)	Reviewer, Ad Hoc Committee, MCH Study Section, NHLBI
2008-2012	American Society of Hematology Scientific Committee on Platelets
2011-2012	Invited to join NHLBI-Molecular and Cellular Hematology (MCH) Study Section as regular member (I asked to review as Ad Hoc)
2008	International Scientific Advisory Board member of the XXII ISTH (International Society of Thrombosis and Hemostasis) Congress
2007-2008	Scientific Advisory Board Member for BIT Life Sciences World Congress of Regenerative Medicine & Stem Cell, Guangzhou, China
2007	Reviewer, The French National Research Agency (*Agence Nationale de la Recherche - ANR*)
2007	Reviewer, K23 Awards, NHLBI
2007	Reviewer, The French National Research Agency (*Agence Nationale de la Recherche - ANR*)
2007	Invited to join NHLBI-Hematopoiesis Study Section as regular member (I requested to postpone)
2006	Reviewer, Ad Hoc, R24, NHLBI
2005	Reviewer, Unité Support Agence Nationale de la Recherche, France

2004	Reviewer, Hem-SBIR study section, NHLBI
2004	Reviewer, Association Italiana per la Ricerca sul Cancro
2003	Reviewer, Research Foundation of the City University of New York
2003	Reviewer, Ad Hoc Committee, NCI
2001	Reviewer, National Science Foundation, VA, USA
2000-2001	Reviewer, Israel Science Foundation
2001	Reviewer, Ad Hoc Committee, Hem-1 study section, NHLBI
2000	Reviewer, Ad Hoc Committee, NHLBI, SCORE on Thrombosis
1998	*Co-Chair*, Organizing Committee of the National Conference: "Cardiovascular Disease: Basic Science to Clinical Applications", by the National American Heart Association and Boston University School of Medicine, Boston, MA (May 1998).
1999	Hem-1 Study Section, NHLBI, Member in transition for 1999
1997	Reviewer, Ad Hoc Committee, Hem-1, NHLBI
1996	Reviewer, Ad Hoc Committee, Hem-1, NHLBI
1996	Reviewer, Ad Hoc Committee (PPG review), NIDDK
1995	Reviewer, Ad Hoc Committee (PPG review), NIDDK
1995-1997	Member of Research Peer Review committee, American Heart Association, MA Affiliate

Editorial Duties/Review of Papers:

2011-Present	Member of the Editorial Board, International J. of Molecular Medicine
2000-2010	Member of the Editorial Board, Blood Journal
2008-2011	Member of the Editorial Board, J. Experimental Hem
2009-Present	Member of the Editorial Board, Clinical Pharmacology: Advances and Applications
Reviewer:	J. Clinical Investigation; Nature Med; Molecular and Cellular Biology; Journal of Biological Chemistry; Molecular Biology of the Cell; PNAS; Molecular Pharmacology; Cancer Research; Genomics etc.

Memberships in Societies:

2008-Present	The North American Purine Club
2008-Present	International Society of Hematology
2006-Present	American Heart Association
1997-2012	The American Society for Cancer Biology
1993-Present	The American Society of Hematology
1990-Present	The American Society for Cell Biology
1990-Present	The American Society for Biochemistry and Molecular Biology
1989- Present	The American Association for the Advancement of Science

II. RESEACH, FUNDING AND PUBLICAITONS

Major Research Interest: Our research focuses on mechanisms of control of bone marrow stem cell differentiation, with a focus on the platelet/megakaryocyte lineage. The role of adenosine receptors in controlling this process and platelet/vascular function is studied, particularly in context of blood and vascular pathologies.

Highlights of Recognized Findings and Select Publications:

Adenosine Receptors in the Context of Platelet/Vascular Biology: Uncovered co-expression and co-regulation of cAMP-inhibitory and stimulatory adenosine receptor genes within the same lineage, and the functional significance of co-expression (Molec Pharmacology 2002; JBC); Identified the A2b adenosine receptor as protector against inflammation and platelet-induced thrombosis under vascular injury, and elucidated related mechanisms, suggesting novel links between this receptor signaling, bone marrow cell differentiation, and atherosclerosis, thus, opening possibilities for ligand-based therapeutic applications (JCI 2006; PLoS Med 2008; PNAS 2008; J.Thromb Hemos 2010; Circulation 2011; JCI 2012); Recently identified new protein partners of the A2b adenosine receptor, including p105 and their role in this receptor-mediated effects independent of ligand binding (JCell Science, 2012)

Megakaryocyte/Platelet Biology: Isolated the platelet factor four (PF4) gene and developed the first in-vivo model for targeted expression of foreign genes to megakaryocytes/platelets of transgenic mice via a PF4 cassette (PNAS 1991; MCB 1991)- an approach now widely used by the vascular-platelet research community; Discovered a transcriptional network that regulates megakaryocyte-specific gene expression, and introduced via molecular and computational approaches the new notion of a megakaryocyte-specific combination of non tissue specific transcription factors, which together allows lineage specification (e.g., MCB 2004; Nucleic Acid Research 2006); Identified key regulators of megakaryocyte polyploidy/endoreduplication (MCB 1997, Blood several publications; PNAS 2013), and vascular polyploidy as a biomarker for aging and senescence (JBC 2004; Aging Cell 2007); Identified lysyl oxidase as regulator of megakaryocyte ploidy and expansion, leading to novel therapeutic approaches for bone marrow myelofibrosis (JBC 2011; Blood 2012)

Grant Support:

1994-1998	Principal Investigator (PI) of RO1/NHLBI RFA grant, titled: “Molecular Analysis of Cell Cycle Genes in Megakaryocytes”
1994-1997	PI of Grant-in Aid Award, American Heart Association (National Center)
1995-2000	PI of Established Investigator Award, American Heart Association (National Center)
1997-2005	PI of RO1/NHLBI grant, titled: “Mechanisms Regulating Endomitosis in Megakaryocytes” (scored in top 1.2 percentile)
2001-2005	Program Director: “Cell Cycle Control/Blood Cell Development”, NCI Seed Grant to The Cancer Research Center at Boston University School of Medicine (PI of Center Grant: Dr. Douglas Faller)
2003-2005	PI of RO3/NIA grant, titled: “Properties of Polyploid Cells in a Model of Aging”
2003-2006	PI of a Technology Development Award, titled: “Effect of Adenosine Analogs on Growth of Cancer Cells”, Boston University
1997-2009	Program Project (PPG) Director (since 2004) and PI of a project (since 1997), PPG/NHLBI: “Role of The Arterial Wall in Atherosclerosis”; PI of project 3: “The Role of Adenosine Receptors in Vascular Function”

2009-2014 PI of RO1/NHLBI grant, titled: “Adenosine Receptors and Atherogenesis”

2003-2015 PI and Founder of an institutional Pre-Doctoral Training Program, titled: “Pre-Doctoral Training Program In Cardiovascular Biology” (T32, NHLBI)

2006-2016 PI of RO1/NHLBI grant, titled: “Mechanisms Regulating Endomitosis in Megakaryocytes” (scored in top 0.3 percentile)

2010-2013 co-PI of R03/NIH titled: ”Generation and Investigation of IL33 Knockout Mice”

2011-2013 Pilot Grant, NIH/NIDDK for Katya Ravid, Pilot and Feasibility Program: “The A2b Adenosine Receptor as Regulator of Type II Diabetes”; P30 DK046200-19 (PI: Susan Fried), Boston Nutrition Obesity Research Center .

Publications:

G protein-coupled receptors and adipogenesis: A focus on adenosine receptors.
Eisenstein A, Ravid K.
J Cell Physiol. 2013 Sep 24. doi: 10.1002/jcp.24473. [Epub ahead of print]
PMID: 24114647 [PubMed - as supplied by publisher]

TLR stimulation initiates a CD39-based autoregulatory mechanism that limits macrophage inflammatory responses.
Cohen HB, Briggs KT, Marino JP, Ravid K, Robson SC, Mosser DM.
Blood. 2013 Sep 12;122(11):1935-45. doi: 10.1182/blood-2013-04-496216. Epub 2013 Aug 1.
PMID: 23908469 [PubMed - in process]

Promoting interdisciplinary research in departments of medicine: results from two models at Boston university school of medicine.
Coleman DL, Spira A, Ravid K.
Trans Am Clin Climatol Assoc. 2013;124:275-82.
PMID: 23874035 [PubMed - in process] Free PMC Article

The Scientist's Pledge.
Ravid K, Wolozin B.
Acad Med. 2013 Jun;88(6):743. doi: 10.1097/ACM.0b013e31828f9f96. No abstract available.
PMID: 23708595 [PubMed - in process]
Related citations

Fundamental differences in endoreplication in mammals and Drosophila revealed by analysis of endocycling and endomitotic cells.
Sher N, Von Stetina JR, Bell GW, Matsuura S, Ravid K, Orr-Weaver TL.
Proc Natl Acad Sci U S A. 2013 Apr 23. [Epub ahead of print]
PMID: 23613587 [PubMed - as supplied by publisher] Free Article
Related citations

Crosstalk between the equilibrative nucleoside transporter ENT2 and alveolar Adora2b adenosine receptors dampens acute lung injury.
Eckle T, Hughes K, Ehrentraut H, Brodsky KS, Rosenberger P, Choi DS, Ravid K, Weng T, Xia Y, Blackburn MR, Eltzschig HK.
FASEB J. 2013 Apr 25. [Epub ahead of print]

PMID: 23603835 [PubMed - as supplied by publisher]
Related citations

Megakaryocyte polyploidy is inhibited by lysyl oxidase propeptide.
Eliades A, Papadantonakis N, Matsuura S, Mi R, Bais MV, Trackman P, Ravid K.
Cell Cycle. 2013 Apr 15;12(8):1242-50. doi: 10.4161/cc.24312. Epub 2013 Mar 21.
PMID: 23518500 [PubMed - in process]
Related citations

Adenosine, adenosine receptors and their role in glucose homeostasis and lipid metabolism.
Koupenova M, Ravid K.
J Cell Physiol. 2013 Mar 4. doi: 10.1002/jcp.24352. [Epub ahead of print]
PMID: 23460239 [PubMed - as supplied by publisher]
Related citations

Differentiation of mesenchymal stem cells to osteoblasts and chondrocytes: a focus on adenosine receptors.
Carroll SH, Ravid K.
Expert Rev Mol Med. 2013 Feb 14;15:e1. doi: 10.1017/erm.2013.2.
PMID: 23406574 [PubMed - in process]
Related citations

Building interdisciplinary biomedical research using novel collaboratives.
Ravid K, Faux R, Corkey B, Coleman D.
Acad Med. 2013 Feb;88(2):179-84. doi: 10.1097/ACM.0b013e31827c0f79.
PMID: 23269301 [PubMed - indexed for MEDLINE]
Related citations

Regulation of Atherosclerosis and Associated Risk Factors by Adenosine and Adenosine Receptors.
Koupenova M, Johnston-Cox H, Ravid K.
Curr Atheroscler Rep. 2012 Aug 1. [Epub ahead of print]
PMID: 22850979 [PubMed - as supplied by publisher]
Related citations

The a2b adenosine receptor modulates glucose homeostasis and obesity.
Johnston-Cox H, Koupenova M, Yang D, Corkey B, Gokce N, Farb MG, Lebrasseur N, Ravid K.
PLoS One. 2012;7(7):e40584. Epub 2012 Jul 25.
PMID: 22848385 [PubMed - in process] Free PMC Article
Related citations

A novel mechanism of control of NFκB activation and inflammation involving A2B adenosine receptors.
Sun Y, Duan Y, Eisenstein AS, Hu W, Quintana A, Lam WK, Wang Y, Wu Z, Ravid K.
J Cell Science. 2012 Jul 5. [Epub ahead of print]
PMID:22767505 [PubMed - as supplied by publisher]
Related citations

A2b adenosine receptor regulates hyperlipidemia and atherosclerosis.
Koupenova M, Johnston-Cox H, Vezeridis A, Gavras H, Yang D, Zannis V, Ravid K.
Circulation. 2012 Jan 17;125(2):354-63. Epub 2011 Dec 5.
PMID: 22144568 [PubMed - in process]
Related citations

A2B adenosine receptor promotes mesenchymal stem cell differentiation to osteoblasts and bone formation.
Carroll SH, Wigner NA, Kulkarni N, Johnston-Cox H, Gerstenfeld LC, Ravid K.

J Biol Chem. 2012 May 4;287(19):15718-27. Epub 2012 Mar 8.
PMID: 22403399 [PubMed - in process]
Related citations

Equilibrative nucleoside transporter 1 (ENT1) regulates postischemic blood flow during acute kidney injury in mice.
Grenz A, Bauerle JD, Dalton JH, Ridyard D, Badulak A, Tak E, McNamee EN, Clambey E, Moldovan R, Reyes G, Klawitter J, Ambler K, Magee K, Christians U, et.al.
J Clin Invest. 2012 Feb 1;122(2):693-710. doi: 10.1172/JCI60214. Epub 2012 Jan 24.
PMID: 22269324 [PubMed - in process]
Related citations

Megakaryocyte pathology and bone marrow fibrosis: the lysyl oxidase connection.
Papadantonakis N, Matsuura S, Ravid K.
Blood. 2012 Jul 5. [Epub ahead of print]
PMID:22767499 [PubMed - as supplied by publisher]
Related citations

Mast cell adenosine receptors function: a focus on the a3 adenosine receptor and inflammation.
Rudich N, Ravid K, Sagi-Eisenberg R.
Front Immunol. 2012;3:134. Epub 2012 Jun 4.
PMID:22675325 [PubMed - in process]
Related citations

A2 adenosine receptors and vascular pathologies.
Johnston-Cox HA, Koupenova M, Ravid K.
Arterioscler Thromb Vasc Biol. 2012 Apr;32(4):870-8. Review.
PMID: 22423039[PubMed - indexed for MEDLINE]
Related citations

A2BR Adenosine Receptor Modulates Sweet Taste in Circumvallate Taste Buds.
Kataoka S, Baquero A, Yang D, Shultz N, Vandenbeuch A, Ravid K, Kinnamon SC, Finger TE.
PLoS One. 2012;7(1):e30032. Epub 2012 Jan 10.
PMID: 22253866 [PubMed - in process]
Related citations

Control of megakaryocyte expansion and bone marrow fibrosis by lysyl oxidase.
Eliades A, Papadantonakis N, Bhupatiraju A, Burridge KA, Johnston-Cox HA, Migliaccio AR, Crispino JD, Lucero HA, Trackman PC, Ravid K.
J Biol Chem. 2011 Aug 5;286(31):27630-8. Epub 2011 Jun 10.
PMID:21665949 [PubMed - as supplied by publisher]
Related citations

A role for the low-affinity A2B adenosine receptor in regulating superoxide generation by murine neutrophils.
van der Hoeven D, Wan TC, Gizewski ET, Kreckler LM, Maas JE, Van Orman J, Ravid K, Auchampach JA.
J Pharmacol Exp Ther. 2011 Jun 21. [Epub ahead of print]
PMID: 21693629 [PubMed - as supplied by publisher]
Related citations

New roles for cyclin E in megakaryocytic polyploidization.
Eliades A, Papadantonakis N, Ravid K.
J Biol Chem. 2010 Jun 11;285(24):18909-17. Epub 2010 Apr 14.
PMID: 20392692 [PubMed - indexed for MEDLINE]

Related citations

Adenosine and blood platelets.
Johnston-Cox HA, Ravid K.
Purinergic Signal. 2011 Feb 8. [Epub ahead of print]
PMID: 21484090
Related citations

Regulation of MMP-9 expression by the A2b adenosine receptor and its dependency on TNF-α signaling.
Chen H, Koupenova M, Yang D, Sume SS, Trackman PC, Ravid K.
Exp Hematol. 2011 May;39(5):525-30. Epub 2011 Feb 12.
PMID: 21320567
Related citations

Links between insulin resistance, adenosine A2B receptors, and inflammatory markers in mice and humans.
Figler RA, Wang G, Srinivasan S, Jung DY, Zhang Z, Pankow JS, Ravid K, Fredholm B, Hedrick CC, Rich SS, Kim JK, LaNoue KF, Linden J.
Diabetes. 2011 Feb;60(2):669-79.
PMID: 21270276
Related citations

Survivin localization during endomitosis of high ploidy mouse megakaryocytes.
McCrann DJ, Ravid K.
Blood. 2010 Sep 23;116(12):2192-3. No abstract available.
PMID: 20864587
Related citations

The value of a native milieu: mutated non-muscle myosin IIA does lead to thrombocytopenia.
Ravid K.
J Thromb Haemost. 2010 Oct;8(10):2241-2. No abstract available.
PMID: 20723023
Related citations

Physiological implications of adenosine receptor-mediated platelet aggregation.
Johnston-Cox HA, Yang D, Ravid K.
J Cell Physiol. 2011 Jan;226(1):46-51. Review.
PMID: 20717958
Related citations

Lysyl oxidase propeptide in secretion and enzyme activity.
Grimsby JL, Lucero HA, Trackman PC, Ravid K, Kagan HM.
J Cell Biochem. 2010 Dec 1;111(5):1231-43. doi: 10.1002/jcb.22845.
PMID: 20717923
Related citations

A new role for the A2b adenosine receptor in regulating platelet function.
Yang D, Chen H, Koupenova M, Carroll SH, Eliades A, Freedman JE, Toselli P, Ravid K.
J Thromb Haemost. 2010 Apr;8(4):817-27. Epub 2010 Jan 21.
PMID: 20102488 [PubMed - indexed for MEDLINE]
Related citations

Tissue-derived proinflammatory effect of adenosine A2B receptor in lung ischemia-reperfusion injury.
Anvari F, Sharma AK, Fernandez LG, Hranjec T, Ravid K, Kron IL, Laubach VE.

J Thorac Cardiovasc Surg. 2010 Oct;140(4):871-7. Epub 2010 Jul 24.
PMID: 20659747
Related citations

Polyploidy: mechanisms and cancer promotion in hematopoietic and other cells.
Nguyen HG, Ravid K.
Adv Exp Med Biol. 2010;676:105-22.
PMID: 20687472 [PubMed - in process]
Related citations

Differential expression of NADPH oxidases in megakaryocytes and their role in polyploidy.
McCrann DJ, Eliades A, Makitalo M, Matsuno K, Ravid K.
Blood. 2009 Aug 6;114(6):1243-9. Epub 2009 May 26.
PMID: 19471020 [PubMed - indexed for MEDLINE]Free PMC ArticleFree text
Related citations

Activation of the macrophage A2b adenosine receptor regulates tumor necrosis factor-alpha levels following vascular injury.
Chen H, Yang D, Carroll SH, Eltzschig HK, Ravid K.
Exp Hematol. 2009 May;37(5):533-8.
PMID: 19375644 [PubMed - indexed for MEDLINE]
Related citations

Adenosine 2B receptors (A(2B)AR) on enteric neurons regulate murine distal colonic motility.
Chandrasekharan BP, Kolachala VL, Dalmasso G, Merlin D, Ravid K, Sitaraman SV, Srinivasan S.
FASEB J. 2009 Aug;23(8):2727-34. Epub 2009 Apr 8.
PMID: 19357134 [PubMed - indexed for MEDLINE]Free PMC ArticleFree text
Related citations

Deregulated Aurora-B induced tetraploidy promotes tumorigenesis.
Nguyen HG, Makitalo M, Yang D, Chinnappan D, St Hilaire C, Ravid K.
FASEB J. 2009 Aug;23(8):2741-8. Epub 2009 Mar 30.
PMID: 19332642 [PubMed - indexed for MEDLINE]Free PMC ArticleFree text
Related citations

Upregulation of Nox4 in the aging vasculature and its association with smooth muscle cell polyploidy.
McCrann DJ, Yang D, Chen H, Carroll S, Ravid K.
Cell Cycle. 2009 Mar 15;8(6):902-8. Epub 2009 Mar 21.
PMID: 19221493 [PubMed - indexed for MEDLINE]Free PMC ArticleFree text
Related citations

Hypertension in transgenic mice with brain-selective overexpression of the alpha(2B)-adrenoceptor.
Kintsurashvili E, Shenouda S, Ona D, Ona L, Ahmad S, Ravid K, Gavras I, Gavras H.
Am J Hypertens. 2009 Jan;22(1):41-5. Epub 2008 Nov 6.
PMID: 18989257 [PubMed - indexed for MEDLINE]
Related citations

MAL: not just a leukemia inducer.
Ravid K.
Blood. 2009 Nov 5;114(19):3977-8. No abstract available.
PMID: 19892723 [PubMed]
Related citations

Activation of adenosine A2B receptors enhances ciliary beat frequency in mouse lateral ventricle ependymal cells.
Genzen JR, Yang D, Ravid K, Bordey A.
Cerebrospinal Fluid Res. 2009 Nov 18;6:15.
PMID: 19922651 [PubMed]Free PMC ArticleFree text
Related citations

Megakaryocytes survive without survivin.
Ravid K.
Blood. 2009 Jul 2;114(1):4.
PMID: 19574480 [PubMed]Free Article
Related citations

Deletion of Cavin/PTRF causes global loss of caveolae, dyslipidemia, and glucose intolerance.
Liu L, Brown D, McKee M, Lebrasseur NK, Yang D, Albrecht KH, Ravid K, Pilch PF.
Cell Metab. 2008 Oct;8(4):310-7.
PMID: 18840361 [PubMed - indexed for MEDLINE]Free PMC ArticleFree text
Related citations

Mechanisms of induction of adenosine receptor genes and its functional significance.
St Hilaire C, Carroll SH, Chen H, Ravid K.
J Cell Physiol. 2009 Jan;218(1):35-44. Review.
PMID: 18767039 [PubMed - indexed for MEDLINE]
Related citations

Direct visualization of the endomitotic cell cycle in living megakaryocytes: differential patterns in low and high ploidy cells.
Papadantonakis N, Makitalo M, McCrann DJ, Liu K, Nguyen HG, Martin G, Patel-Hett S, Italiano JE, Ravid K.
Cell Cycle. 2008 Aug;7(15):2352-6. Epub 2008 May 21.
PMID: 18677109 [PubMed - indexed for MEDLINE]Free PMC ArticleFree text
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TNF-alpha upregulates the A2B adenosine receptor gene: The role of NAD(P)H oxidase 4.
St Hilaire C, Koupenova M, Carroll SH, Smith BD, Ravid K.
Biochem Biophys Res Commun. 2008 Oct 24;375(3):292-6. Epub 2008 Jul 21.
PMID: 18647598 [PubMed - indexed for MEDLINE]Free PMC ArticleFree text
Related citations

A2B adenosine receptor gene deletion attenuates murine colitis.
Kolachala VL, Vijay-Kumar M, Dalmasso G, Yang D, Linden J, Wang L, Gewirtz A, Ravid K, Merlin D, Sitaraman SV.
Gastroenterology. 2008 Sep;135(3):861-70. Epub 2008 May 21.
PMID: 18601927 [PubMed - indexed for MEDLINE]Free PMC ArticleFree text
Related citations

Lysyl oxidase oxidizes cell membrane proteins and enhances the chemotactic response of vascular smooth muscle cells.
Lucero HA, Ravid K, Grimsby JL, Rich CB, DiCamillo SJ, Mäki JM, Myllyharju J, Kagan HM.
J Biol Chem. 2008 Aug 29;283(35):24103-17. Epub 2008 Jun 27.
PMID: 18586678 [PubMed - indexed for MEDLINE]Free PMC ArticleFree text
Related citations

The reno-vascular A2B adenosine receptor protects the kidney from ischemia.
Grenz A, Osswald H, Eckle T, Yang D, Zhang H, Tran ZV, Klingel K, Ravid K, Eltzschig HK.
PLoS Med. 2008 Jun 24;5(6):e137.
PMID: 18578565 [PubMed - indexed for MEDLINE]Free PMC ArticleFree text
Related citations

Platelet marginal bands: not so marginal.
Ravid K.
Blood. 2008 May 1;111(9):4423. No abstract available.
PMID: 18441237 [PubMed]Free Article
Related citations

Major histocompatibility class II transactivator expression in smooth muscle cells from A2b adenosine receptor knock-out mice: cross-talk between the adenosine and interferon-gamma signaling.
Xu Y, Ravid K, Smith BD.
J Biol Chem. 2008 May 23;283(21):14213-20. Epub 2008 Mar 21.
PMID: 18359773 [PubMed - indexed for MEDLINE]Free PMC ArticleFree text
Related citations

Survivin overexpression alone does not alter megakaryocyte ploidy nor interfere with erythroid/megakaryocytic lineage development in transgenic mice.
McCrann DJ, Yezefski T, Nguyen HG, Papadantonakis N, Liu H, Wen Q, Crispino JD, Ravid K.
Blood. 2008 Apr 15;111(8):4092-5. Epub 2008 Feb 1.
PMID: 18245663 [PubMed - indexed for MEDLINE]Free PMC ArticleFree text
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The A2b adenosine receptor protects against vascular injury.
Yang D, Koupenova M, McCrann DJ, Kopeikina KJ, Kagan HM, Schreiber BM, Ravid K.
Proc Natl Acad Sci U S A. 2008 Jan 15;105(2):792-6. Epub 2008 Jan 9.
PMID: 18184815 [PubMed - indexed for MEDLINE]Free PMC ArticleFree text
Related citations

Vascular smooth muscle cell polyploidy: an adaptive or maladaptive response?
McCrann DJ, Nguyen HG, Jones MR, Ravid K.
J Cell Physiol. 2008 Jun;215(3):588-92. Review.
PMID: 18181174 [PubMed - indexed for MEDLINE]
Related citations

Lysyl oxidase propeptide inhibits smooth muscle cell signaling and proliferation.
Hurtado PA, Vora S, Sume SS, Yang D, St Hilaire C, Guo Y, Palamakumbura AH, Schreiber BM, Ravid K, Trackman PC.
Biochem Biophys Res Commun. 2008 Feb 1;366(1):156-61. Epub 2007 Dec 3.
PMID: 18060869 [PubMed - indexed for MEDLINE]Free PMC ArticleFree text
Related citations

B-Myb regulates the A(2B) adenosine receptor in vascular smooth muscle cells.
St Hilaire C, Yang D, Schreiber BM, Ravid K.
J Cell Biochem. 2008 Apr 15;103(6):1962-74.
PMID: 17979185 [PubMed - indexed for MEDLINE]
Related citations

Increased polyploidy in aortic vascular smooth muscle cells during aging is marked by cellular senescence.
Yang D, McCrann DJ, Nguyen H, St Hilaire C, DePinho RA, Jones MR, Ravid K.
Aging Cell. 2007 Apr;6(2):257-60. Epub 2007 Feb 7.
PMID: 17291294 [PubMed - indexed for MEDLINE]
Related citations

Inositide-dependent phospholipase C signaling mimics insulin in skeletal muscle differentiation by affecting specific regions of the cyclin D3 promoter.
Faenza I, Ramazzotti G, Bavelloni A, Fiume R, Gaboardi GC, Follo MY, Gilmour RS, Martelli AM, Ravid K, Cocco L.
Endocrinology. 2007 Mar;148(3):1108-17. Epub 2006 Nov 22.
PMID: 17122077 [PubMed - indexed for MEDLINE]Free Article
Related citations

Hematopoietic gene promoters subjected to a group-combinatorial study of DNA samples: identification of a megakaryocytic selective DNA signature.
Hazony Y, Lu J, St Hilaire C, Ravid K.
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Nguyen HG, Chinnappan D, Urano T, Ravid K.
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Jones MR, Zhao Z, Sullivan CP, Schreiber BM, Stone PJ, Toselli PA, Kagan HM, Cohen RA, Ravid K.
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Zhang Y, Nagata Y, Yu G, Nguyen HG, Jones MR, Toselli P, Jackson CW, Tatsuka M, Todokoro K, Ravid K.
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Vascular smooth muscle polyploidization as a biomarker for aging and its impact on differential gene expression.
Jones MR, Ravid K.
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PMID: 14634004 [PubMed - indexed for MEDLINE]Free Article
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Lu J, Pierron A, Ravid K.
Cancer Res. 2003 Oct 1;63(19):6413-23.

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AIM-1 transgenic mice with a curly tail phenotype and its chromosome location.
Chinnappan D, Zhang Y, Ravid K.
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Activity of the A3 adenosine receptor gene promoter in transgenic mice: characterization of previously unidentified sites of expression.
Yaar R, Lamperti ED, Toselli PA, Ravid K.
FEBS Lett. 2002 Dec 18;532(3):267-72.
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Regulation of the A3 adenosine receptor gene in vascular smooth muscle cells: role of a cAMP and GATA element.
Yaar R, Cataldo LM, Tzatsos A, Francis CE, Zhao Z, Ravid K.
Mol Pharmacol. 2002 Nov;62(5):1167-76.
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A selective effect of Mpl ligand on mRNA stabilization during megakaryocyte differentiation.
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Ravid K, Lu J, Zimmet JM, Jones MR.
J Cell Physiol. 2002 Jan;190(1):7-20. Review.
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Repression of AIM-1 kinase mRNA as part of a program of genes regulated by Mpl ligand.
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Upregulation of lysyl oxidase in vascular smooth muscle cells by cAMP: role for adenosine receptor activation.
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PMID: 9931510 [PubMed - indexed for MEDLINE]
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Blood. 1994 Nov 15;84(10):3385-93.
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Biochem J. 1989 Mar 15;258(3):653-61.
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Ravid K, Lavie L, Gershon D.
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Spectrophotometric determination of cyanide based on the formation of NAD+-cyanide addition compound.
Ravid K, Avi-Dor Y.
Anal Biochem. 1980 Nov 1;108(2):343-5. No abstract available.
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Glucose-dependent stimulation of protein synthesis in cultured heart muscle cells. Possible involvement of the pentose phosphate pathway.
Ravid K, Diamant P, Avi-Dor Y.
FEBS Lett. 1980 Sep 22;119(1):20-4. No abstract available.
PMID: 6775978 [PubMed - indexed for MEDLINE]
Related citations

Books:

1. *DNA Transfer into Culture Cells*, K. Ravid and I. Freshney, Editors, Wiley & Sons, NY (1998)

2. *Transcription Factors: Normal and Malignant Development of Blood Cells*, K. Ravid and J. Licht, Editors, Wiley & Sons, NY (2001) [several full chapters by K. Ravid et al.]

Book review: **"** Nuclear transcription factors are central in determining the behavior of normal and leukemic blood cells. The present series of reviews are admirable for their brevity, clarity, comprehensive referencing and clear illustrations. They make mandatory reading for those needing to understand what is new and important in cellular hematology. –Dr. Donald Metcalf (winner of the Lasker Award) Walter & Eliza Hall Institute, Royal Melbourne Hospital, Australia (*www.amzon.com*)

3. Invited by Wiley & Sons, NY to discuss an outline of a Biochemistry of Disease textbook for advanced undergraduate students and graduate and medical students (2013); a preparation of a book outline might follow

Book Chapters:

Eliades, A. Burridge, K.A. and Ravid, K. Methods to quantitate endomitosis (endoreduplication). In: Protocols in Cell Cycle Control: Methods and Techniques, Brooks, G., Bicknell, K. co-Editors, The Humana Press Inc. (2013, in process)

Papadantonakis, N. and Ravid, K. (2009) Gene Regulation during Megakartopioiesis, In: Molecular Basis for Hematopoietic Cell Differentiation, Amittha Wickrema & Barbara Kee Co-Editors, Springer Publishing group

Nguyen, H.G. and Ravid, K. (2007) Polyploidy in the cardiovascular system and its functional significance, In : Polyploidization and Cancer, , Randy Y.C. Poon edt. Landes Bioscience, Austin, TX, USA

Kaluzny, Y., Poncz, M. and Ravid, K. (2001) Transcription factors involved in the development of the megakaryocytic lineage, In: Transcription Factors: Normal and Malignant Development of Blood Cells, K.Ravid and J.Licht, eds., p31-51 Wiley & Sons, NY.

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Ravid, K. (1998) Electroporation of bone marrow cells. In: DNA Transfer into Cultured cells , K. Ravid, and R. I. Freshney, edts., published by John Wiley and Sons NY p55-68.

Zimmet, J., Toselli, P. and Ravid, K. (1998) Cyclin D3 and megakaryocyte development. In: Thrombopoietin: from molecule to medicine. Murphy, M. J. and Kuter D. J., edts., Alpha Med Press, Miamisburg, Ohio, p97-106.

Pagano, M. and Ravid, K. (1998) The cell cycle inhibitor p27 as a prognostic marker in human tumors and a novel target for therapeutic intervention. In: Molecular mechanisms regulating the cell cycle: novel targets for pharmacological intervention. Silvio Gutkind J, edt., Humana press Publishing.

Ravid, K. (1996) Megakaryocyte Cell Lines from Transgenic Mice. In: Culture of immortalized cells, R. I. Freshney, edt., published by John Wiley and Sons NY.p316-326.

Ravid, K. and Lowenstein, J. M. (1990), Isolation of an adenosine binding protein which has properties expected of the A_1 adenosine receptors. In: Purines in Cellular Signaling: Targets for New Drugs, K. A. Jacobson, J. W. Daly and V. Manganiello, eds., Springer Verlag, New York, pp. 78-81.

Patents:
Rosenberg, R.D. and Ravid, K. The use of the PF4 gene promoter for targeted expression of genes in vivo. Filed in 1991 via MIT
Ravid, K. and Lu, J. Adenosine analogs as suppressors of cancer cell growth. Provisional patent filed, 2003 via BUSM.

III. TEACHING and MENTORING

Teaching:

Overview of major contributions*:* The medical school practices shared teaching. As outlined below, I have been **concurrently** teaching several graduate and medical courses **since 1995**. In 1996 I initiated and since then have directed a specialized graduate course titled, *Gene Targeting in Transgenic Mice*, which had prepared numerous students to pursue advanced research in genetic engineering, using solid theory-based knowledge combined with transgenic technology. More recently, I have co-developed and co-directed two new interdisciplinary courses, titled: *Biological Core Technologies (based in Med Campus and open to all students),* and *Nanomedicine: Principles and Applications (based in BU CR campus and open to students on both campuses*). The course *Biological Core Technologies (GMS MM730)* represents a unique pedagogical platform for linking knowledge of theoretical principals and core technologies to an experimental design that addresses in a multidisciplinary fashion mechanisms-based inquiries. For example, as a course requirement, students envision a novel investigation and design a multidisciplinary proposal to address it, based on principles of analyses acquired in parallel through at least two research cores representing different fields. In co-developing the curriculum for either one of these courses, I strove to integrate innovative approaches to demonstrate interdependency of different pairs of disciplines in the process of scientific discovery. Other contributions over the years include teaching Biochemistry to medical students (Medical Biochemistry and Biochemistry and Cell Biology), and teaching topics in Biochemistry to graduate students (whether Molecular Biology from 1996-2003 or Biochemistry, or more recently: Foundations in Biomedical Sciences). Students have evaluated courses I have directed and taught in the excellent-outstanding range.

Teaching at Boston University School of Medicine (medical and graduate students):

1995–1996	Biochemistry (MEDME556; GMSBI755)
1995-1996	Mechanisms of Aging (GMSBI786)
1996–1997	Biochemistry (GMSBI755)
1996–1997	Advanced Courses in Molecular Biology (BI782)
1996–1997	Mechanisms of Aging (GNSBI786)
1996-Present	Gene Targeting in Transgenic Mice (GMS BI 776); Course Developer, Director and Instructor [course offered every other year]
1997–1998	Molecular Biology (BI782)
1997–1998	Biochemistry (GMSBI755)
1998–1999	Research Topics (BI753)
1998-1999	Biochemistry (MEDME556)
1999-2000	Biochemistry / Board Review (GMSBI751)
1999-2000	Biochemistry GMS (755/555)
2000-2002	Biochemistry (GMS 755/555)
1996-2003	Molecular Biology (BI1782) (every other year)

2001-Present	Molecular Medicine Journal Club (*non accredited Journal Club*)
2002	Molecules to Man (GMS, Molecular Medicine)
2001, 2003	Molecular Pharmacology (GMS PM 700)
2005,2007,2009	Molecular Mechanism of Cardiovascular Disease (GMS BI778) [given every other year, with the last given in 2010]
2007-2009	Biochemistry GMS (755/555)
2006-2009	Medical Biochemistry MED MS 127A1/GMS BI 751 (*Medical Students*)
2010-Present	Biochemistry and Cell Biology (MS 127 to Master Students; AND BI751 to *Medical Students*)
2010-Present	Biological Core Technologies (GMS MM730); Course Developer, co-Director
2011-present	Advanced Topics in Biomedical Engineering (Nanomedicine: Principles and Applications; *ENG BE 700 / GMS MM720, 2 credits, Spring 2011; BE/EC 745, GMS MM720, 4 credits, Spring 2012)*; Course co-Developer, co-Director
2012-Present	Foundations in Biomedical Sciences (FIBS); Mechanisms of Cell Communication (FC704)

Teaching abroad:

1979	Mathematics and Physics to Navy Cadets, Israel Defense Forces (one portion of service as *Lieutenant*)
1980 - 1985	Laboratory Assistant (as PhD student) in Biology and Biochemistry courses for undergraduate students, Department of Biology, Technion, Israel Institute of Technology, Haifa, Israel
1980 - 1983	Assistant Lecturer (as PhD student) in a Biochemistry course for medical students and undergraduate students, Department of Biology, Technion, Israel Institute of Technology, Haifa, Israel
1983-1985	Senior Teaching Assistant (as PhD student) in a Biochemistry course for medical students and undergraduate students, Department of Biology, Technion, Israel Institute of Technology, Haifa, Israel

Thesis Committees: (not including own trainees):

Steve Perrin (Dr. Dobbson's lab, 1994-1998); second reader
Matthew Lane (Dr. Farmer's lab, 1994-1999)
Jane Steiger (Dr. Russek's lab, 1995-1999)
Bao-Zhen Lieu (Dr. Pilch's lab, 1994-1999)
Kelly Conn (Dr. Foster's lab, 1994-1999); second reader
Isabel Carreras (Dr. Foster's lab, 1995-2000)
Xiaofeng Zhou (Dr. Polgar's lab, 1996-2001); second reader
Garrick Lau (Dr. Russek's Lab, 1996-2000)
He-Jin Lee (Drs. Chun and Kandror's lab, 1997-2001)
Steve Murray (Dr. Xiao's lab, 1997-2002); second reader
Claudia Hoffman (Dr. Sonenshein's lab, 1997-2002); committee chair
Sean Coughlin (Dr. Pilch's lab, 1998-2002)
David Silva (Dr. Farmer's lab, 1998-2004)
Gabriel Belfort (Dr. Kandror's lab, 2000-2003)
Yong Xu (Dr. Smith's lab, 2002-2004); committee chair
Maria Mitsi (Dr. Nugent's lab, 2004-2008); committee chair
Gerald Stanvich (Genetics; Dr. Moore's lab, 2005-2008)

Alexander Tzatsos (Molecular Medicine; Dr. Zannis's lab, 2006-2009)
Meaghan Capaccioli (Pharmacology; Dr. Russek's lab, 2008-present)
Elyse Kozlowski (Genetics and Genomics; Dr. Mathew Jones' lab, 2012-present)
Dolly Thomas (CMB Program, Dr. Gustavo Mostoslavsky's lab, 2012-present)
Brandon Smith (Molecular and Translational Medicine, Dr. George Murphy's lab, 2013-Present)

Research Advising: (Advisor to graduate students and postdoctoral fellows)

Table of Trainees (K. Ravid's lab)

Past and Current Trainees	Pre (PhD training) or Post-doctoral	Training Period	Prior Academic Degree			Title of Research Project	Current Position (past trainees) Source of Support (current trainees)
			Degree(s)	Year(s)	Institutions(s)		
Chen, Wen-Chen	Pre	94-97	MS	1994	Harvard School of Public Health	Thrombopoietin-inducible genes	Research Associate, Dana Farber Cancer Institute, HMS, Boston, MA; then Dental school, Dentist in CA
Frances, Cynthia*	Post	96-00	PhD	1996	Boston University School of Medicine	Adenosine receptors in platelets and vascular smooth muscle	Proctor & Gamble (consultant)
Sun, Shinshin (Ivon)	Post	95-99	PhD	1995	St. John University, NY	Regulation of the endomitotic cell cycle in megakaryocytes	Investigator, Assistant Professor, North Shore-Long Island Jewish Research Institute Phytochemical Lab Manhasset, NY
Thompson, Alex**	Pre	95-99	MS	1990	University of Coleraine, Ireland	Regulation of endomitosis in megakaryocytes	Lecturer, Haematology; Principal Investigator, Centre for Cancer Research & Cell Biology

							(CCRCB), Queen's University of Belfast Northern Ireland
Zhao, Zhihui	Post	94-00	MD/PhD	1993	Beijing Med. Univ., China	Adenosine receptors in platelets and vascular smooth muscle	Senior Scientist, Bioscience Technologies, Inc, Waltham, MA (since 2008); Assistant Professor of Medicine, BUSM (2002-2008)
Zimmet, Jeffrey[**¤]	Pre[¤] (MD/PhD)	95-98	BS	1993	Wesleyan Univ., CT	Regulation of the endomitotic cell cycle in megakaryocytes	Director, Interventional Cardiology, San Francisco VAMC; Assistant Clinical Professor of Medicine, Univ California San Francisco
Cataldo, Leah	Post	95-97	PhD	1995	University of Massachusetts	Thrombopoietin-induced genes	Science Department Head, Buckingham Browne & Nichols School, Cambridge, MA
Hechler, Beatrice	Post	98-00	PhD	1998	INSERM U.311 Etablissement Français du Sang-Alsace Strasbourg, FR.	Overexpression of the P2Y1 receptor specifically in megakaryocytes and platelets from transgenic mice	Faculty Researcher and Group Leader, INSERM, France
Pierron, Anne	Pre (MA)	01	BA	Unknown	University of Nice, France	Effect of adenosine analogs on cell growth	Research Associate, University of Nice, France
Jones, Matthew[**¤]	Pre[¤]	99-03	BA	1996	University of Delaware	Regulation of ploidy in vascular smooth muscle and megakaryocytes	Assistant Professor, Pulmonary Center, Boston University Med

Kaluzhny, Yulia	Pre	96-01	MS	1990	Moscow State Institute, Moscow, USSR	Lineage determination and apoptosis of megakaryocytes	Group Leader, MatTek Corp., Ashland, MA
Lu, Jun**	Pre	97-03	MSc	1996	Nanjing University, Nanjing, P.R. China	Nucleosome assembly proteins in hematopoiesis	Assistant Professor, Yale School of Medicine
Wang, Zenhngyu (Zack)**	Pre	94-98	BS	1990	East China University of Chem. Technology	Transcriptional regulation of cyclin D3 in megakaryocytes; implication for cell maturation and platelet production	Associate Professor of Medicine, Johns Hopkins Medical School; Principal Investigator and ES Cell Core Director, Center for Molecular Medicine Maine Medical Center Research Institute (until 2001-2012)
Yaar, Ron	Pre (MD/PhD)	98-02	BSc	1996	Boston University	Regulation of expression of the A3 adenosine receptor in the vasculature	Assistant Professor, Director of Resident and International Dermatopathology Training Dermato-pathology, Boston Medical Center (until 2012); Pathologist, Atlanta
Zhang, Ying**	Pre	98-03	MSc	1988	Univ. Science & Technol, Hefei, China, BSC, 1979, Shanghai Inst. of Biochemistry	Mechanism of thrombopoietin effect on platelet development	CEO of a Biotech start up in China (former Instructor of Medicine, Boston University, Med)
Dharmaraj, Chinnpen	Post	99-00	PhD	1994	All India Institute of Medical	Regulation of polyploidy during	Research Scientist, Astrazeneca,

					Sciences, New Delhi, India	hematopoiesis	Westborough, MA
Nguyen, Hao**	Pre (MD/PhD)	01-05	BA	1999	Univ. of Cal. Berkely	The regulation of Aurora-kinase stability and its role in polyploidization and transformation	Resident in Surgery, Univ. California Davis Medical Center
St.Hilaire, Cynthia**	Pre	04-08	BS	2001	Univ. of Vermont	Adenosine receptor function in the vasculature	Postdoctoral Fellow, NHLBI
McCrann, Donald Junior**	Pre[n]	04-08	BS	2001	Yale University	Polyploidy and vascular function	Research Leader, IDEXX Laboratories, Westbrook, ME (Postdoctoral Fellow, Maine Medical Research Center (until 2011)
Liu, Kenian	Post	05-06	PhD	2002	Univ. of Arkansas Med Sci,	Hematopoiesis and ploidy regulation	Member & Assistant Professor, Moffitt Cancer Center &University of South Florida (prior: Researcher, UMDNJ, Center for Human and Molecular Genetics, Newark, NJ)
Makitalo, Maria	Pre (MA courses)	05-07	MA	2004	Sweden	Transcriptional signatures in lineage restricted genes	In PhD program in Sweden
Rier, Andrea L*	Undergraduate	Summer 05	BS	2006	Virginia University	Adenosine analogs and cell cycle inhibition	Resident, Family Medicine, Lancaster General Hospital, Lancaster, PA
Rodriguez,	Undergraduate	Summer			University of	Regulation of	In Medical School

David*		06			New Mexico	Vascular cell growth	
Yang, Dan	Post	04-09	MD/PhD	2002	San Yat-Sen and Hunan Univ., China	The role of A2b adenosine receptors in inflammation and vascular pathology	Staff Scientist, NHLBI
Papadantonakis, Nicholas	Pre	07-10	MD	2006	University of Crete	Regulation of polyploidy in bone marrow cells	Clinical Fellow, Cleveland Clinic, Ohio; Resident, Internal Medicine, Jacobi Medical Center/Albert Einstein College of Medicine (2010-2013)
Burridge, Kelley	Post	2010	PhD	2007	Boston University	Oxidative Stress and megakaryocyte polyploidy	Investigator, FDA
Eliades, Alexia	Pre	07-11	BA	2005	University of Athens Greece	Bone marrow megakarypoiesis	Post Doc, University of Manchester, England
Chen, Hongjie	Post	07-11	PhD	2000	Chinese Academy of Sciences	The role of adenosine receptors is angiogenesis	Clinical Genetics Fellow, Mt.Sinai Medical School, NY
Koupenova-Zamor, Milka**	Pre; Then Post	05-10 (Pre); 10-11 (post)	BS	2003	Univ. of Cal. Los Angeles	The role of A2b adenosine receptors in vascular proliferation	Post Doc, University of Mass Medical School
Bhupatiraju, Ajoy V	Post	10-present	PhD	2006	India Tech Inst	Oxidase control of megakaryo-poiesis	Science Teacher, India
Carroll, Shannon	Pre	09-2013	BS, MA	2004, 2007	University of Arizona	Adenosine receptors and stem cell niche	Post-Doctoral Fellow, Harvard Medical School
Johnston-Cox, Hlillary**	Pre (MD/PhD)	09-present	BS	2007	Univ. of Cal. San Diego	The role of A2b adenosine receptors in vascular disease	In Dr. Ravid's lab

Eisenstein, Anna	Pre (MD/PhD)	10-present	BA	2008	Middlebury College	Adenosine receptors and mesenchymal stem cell differentiation	In Dr. Ravid's lab
Matsuura, Shinobu	Post	11-present	DVM, PhD	2006	DVM: Universidade de Sao Paulo; PhD: University of Tokyo	Blood stem cell differentiation into megakaryocytes: contribution to myelofibrosis	In Dr. Ravid's lab
Shenia Peterson*	Pre (MD/PhD)	12-present	BS	2010	Spelman College, Atlanta	Molecular mechanisms of effects of adenosine on vascular tone	In Dr. Ravid's lab
Rongjuan Mi	Post	12-present	PhD	12/2008	Clemson University, Clemson, South Carolina	Control of BM matrix by megakaryocyte LOX	In Dr. Ravid's lab

(*) Trainees from minority population

(**) Recipients of the first or second awards for thesis work -BUSM Russek Award for Excellence; or Evans Day Award for Outstanding Study/Poster. Jeffrey Zimmet is also a recipient of Boston University President's Award for graduate studies. Zhengyu Wang is a recipient of the BUSM Dean's Award for Ph.D. thesis work

IV. ADMINISTRATIVE ROLES

Civic Appointments:

1998-present Member, New England Technion Alumni Association Executive Committee, American Technion Society

1996-1999 Member of the Board, New England American Technion Society (Newton, MA)

1995-1998 *Chairperson and co-founder*, New England Technion Alumni Association (190 scientists and engineers); Related activities featured in an article titled*: "Women to Watch: K. Ravid" in Technion USA, winter issue 2003*

Institutional Appointments at Boston University and at the School of Medicine:

2013-Present Member, Boston University Clinical Translational Science Institute (CTSI) Executive Committee

2013 Member, Selection Committee, Evans Junior Faculty Research Merit Awards

2012 Member, Boston University Research Leadership Council (appointed by Boston University Vice President and Associate Provost for Research)

2012-Present Member of Advisory Board, Evans Foundation, Boston University School of Medicine

2012-Present	Member of Advisory Board, Oral Cancer Initiative, Boston University Dental School
2011	Member, Review of the Graduate Program in Molecular Medicine Committee
2010	Member, Dean-appointed Forum for drafting Boston University School of Medicine Strategic Plans for Research and Training (co-chaired by Ronald Corley and Thomas Moore)
2010-Present	Co-Chair, Evans Center-Biochemistry-CTSI, Interdisciplinary Thematic Seminars Committee
2009-present	Member, Executive Committee, Graduate Program in Molecular Medicine
2009-present	Member, Executive Committee, Cardiovascular Training Grant: Post Doctoral (NHLBI-funded), Boston University School of Medicine
2009	Member, Department of Medicine Committee for establishing Fair Expectations for trainees (pre- and post) and Junior Faculty
2009	Member, Ad Hoc Committee for promotion to Professorship (Dean-appointed)
2008	Member of Review Panel, Pilot Funding Awards (Dean-appointed)
2008	Committee Chair, Review Committee of RFAs on Research Cores and Resources, Department of Medicine
2008	Committee Chair, Evans Mini-Symposium on Stem Cells and Regenerative Medicine, Department of Medicine
2008, 2010	Member, Department of Medicine Evans Scholar and Evans Junior Award Committees
2006-2008	Member, Department of Biochemistry Written PhD Qualifying Exam Committee
2007	Member, Educator of the Year award Committee, Division of Graduate Sciences
2006-present	Member of Executive Committee, Hematology Training Grant (NHLBI-funded), Boston University School of Medicine
2005-Present	Member, Animal User Committee (chaired by R. Corley)
2003-Present	Chair, Pre-Doc Cardiovascular Training Program Executive Committee
1995-	Member of Advisory Board within the following Program Projects: Molecular mechanism of skeletal repair (Thomas Einhorn, PI; POI AR 049920; 2003-2008); Signaling pathways in stages of mammary tumorogenesis (Gail Sonenshein, PI; NIEHS POI ES 11624; 2001-2006); Lung connective tissue response to injury and repair (Judith Foster, PI; POI HL 46902; 1996-2002); Regulation of Alveolar Epithelial Cell Differentiation (Jerome Brody, PI; NIH PPG; 1996-2001); TGF-*B*-induced collagen transcription and lung fibrosis (Ronald Goldstein, PI; P50 HL 56386; 1996-2001); Ischemic heart disease in blacks (Joseph Loscalzo, PI; SCOR HL 55993; 1995-2000)
2006-present	Member (and alternate Chair during 2007), Institutional Mouse User Committee
2006	Member, Ad Hoc Committee for promotion to Professorship (Dean-appointed)
2006	Member, Research Evaluation Committee, Department of Biochemistry Report to the new Dean of the medical school and the new president of BU
1998-Present	Institutional Stirring Committee for Academic Policies (representing the Department of Biochemistry since 1998, and Medicine since 2009)
2003-2008	Post-Doctoral Fellows Committee (Department of Biochemistry)
1994-Present	Scientific Director, Transgenic /Knock-Out Core, Boston University School of Medicine [has overseen 15-25 projects per year and related budget]
2001-2002	Member, Advisory Committee to the Dean for establishment of a new Department of Genetics at Boston University School of Medicine, and member of a related Search Committee (Dean-appointed)
2002	Member, Ad Hoc Committee for promotion to Professorship (Dean-appointed)

1997-2000	Member, MD/PhD Faculty Advisory Committee (Institutional)
1998-2005	Member, Advisory Committee to the Dean on Construction and Maintenance of Genetically Altered Laboratory Animals
1998-2003	Member, MD/PhD Admission Committee (Institutional)
1998-2003	Member, Department of Biochemistry Student Affair Committee
1998-2000	Member, Admission Committee, *Program in Molecular Medicine*
1997-1998	Chair, Research Evaluation Sub-Committee, Department of Biochemistry Self-Evaluation Committee (appointed by the departmental chair)
1996-2003	Chair, MD/PhD Students Committee, Department of Biochemistry

V. SELECT NATIONAL/INTERNATIONAL *INVITED TALKS* (in the past seven years):

K. Ravid, Session Chair and Speaker (session: Regulation of Lipids and Glucose Metabolism by Purines and Adenosine Receptors); Purines International meeting, Bonn Germany (7.23.14)
K. Ravid, Moderator and Speaker, Core 7. Vascular Disease: Biology and Clinical Science (CVS.724); A2-Type Adenosine Receptors Revisited in Control of Metabolic and Vascular Disease; American Heart Association Meeting, Dallas, TX (11.20.13)
K. Ravid, Invited Speaker: Special Scientific Symposium: Redox in Hematology; "Redox regulation of megakaryopoiesis and Platelet Function: The role of lysyl oxidase"; American Society of Hematology Meeting (12.8.13)
K. Ravid, "A2B adenosine receptor activation in the inflammation and metabolic disease loop", International 2012 Purines Conference, Fukuoka, Japan (6.1.12)
K. Ravid, "Control of myeloproliferative neoplasms by lysyl oxidase", 15th International Symposium on Molecular Medicine, 10.11.12, Hersonissos, Crete, Greece
K. Ravid, "Normally developing polyploidy megakaryocytes are associated with senescence", 13th International Symposium on Molecular Medicine, Loutraki, Greece (10.8.10)
K. Ravid, "The control of Megakaryocyte development", The Children's Hospital of Philadelphia, Abramson Research Center, Division of Hematology, Philadelphia (May, 2011)
K. Ravid, "Mechanisms of Megakaryocyte polyploidy", Sydney University, Australia (2.6.09)
K. Ravid, Session Chair, Gordon Research Conference: Cell and Molecular Biology of Megakaryocytes and Platelets, Genzville (3.16.09)
K. Ravid, "Adenosine Receptors and Vascular Function", Department of Pharmacology, Boston University School of Medicine, Boston, MA (12/09)
K. Ravid, "Adenosine Receptors and mesenchymal stem cell differentiation" International Purine Meeting, Tarragona, Spain (6.1.10)
K. Ravid, "Atypical cell cycles leading to polyploidy: from bone marrow to the vasculature", Department of Biology, Northeastern University, Boston, MA (12.10.07)
K. Ravid, "Transcriptional signatures of bone marrow stem cell differentiation", Department of Biology, Boston University, Boston, MA (5.12.08)
K. Ravid, "The A2b adenosine receptor and thrombosis", International Purine meeting, Copenhagen (6.29-7.08)
K. Ravid, Invited talk at the 11th International Symposium on Molecular Medicine in Crete (10.11.08; declined)

K. Ravid, " Observations from A2bAR knockout mice" Adenosine, Cardioprotection and its clinical applications", In conjunction with the American Heart Association meeting, Chicago, IL (11.11.06)

K. Ravid, "Polypoloidy and it significance", Boston College, Boston, MA (1.23.07)

K. Ravid, "Gene Expression in Megakaryocytes and Progeny", session chair, Gordon Research Conference, Cell and Molecular Biology of Megakaryocytes, Ventura, Ca (3/07)

K Ravid, "Identification of a lineage selective gene promoter regulatory signature of which GATA is an important component" EMBO meeting (THE ROLE AND CONTROL OF GATA FACTORS IN TISSUE DEVELOPMENT AND DISEASE), Capri, Italy (4.14.07)

K. Ravid, "The role of A2b Adenosine receptors in vascular function" Hoffmann La-Roche Inc. (NJ), invited by Andrée R. Olivier (11/07; eventually declined)

K. Ravid, "The role of A2b Adenosine receptors in vascular function: studies in knock out mice", FASEB meeting (Experimental Biology: ASPET), San Francisco, CA (4/06)

K. Ravid, "Lineage Specification: The Megakaryocyte/Platelet Example", Lerner Research Institute, Cleveland Clinic, Cleveland, Ohio (1/06)