

**CURRICULUM VITAE
LIDIA KOS**

Department of Biological Sciences, Florida International University,
MMC, Miami, FL 33199

e-mail: kosl@fiu.edu phone: (305)348-6678 fax: (305)348-1986

EDUCATION

<u>Degree</u>	<u>Institution</u>	<u>Field</u>	<u>Dates</u>
Ph.D.	University of California, Berkeley	Neurobiology	1991
B.Sc., <i>summa cum laude</i>	Federal University of Rio de Janeiro, Brazil	Biology/Genetics	1984

FULL-TIME ACADEMIC EXPERIENCE

<u>Institution</u>	<u>Rank</u>	<u>Field</u>	<u>Dates</u>
FIU	Assoc Dean/AVP	Grad Sch/Res	10/16-pres
FIU	Grad. Program Director	Biological Sciences	8/15-12/16
FIU	Associate Dean	Graduate School	7/12-7/14
FIU	Grad. Program Director	Biological Sciences	8/08-6/12
FIU	Professor	Biological Sciences	8/15-pres
FIU	Associate Professor	Biological Sciences	8/05-7/16
FIU	Assistant Professor	Biological Sciences	8/98-7/05
NHGRI, NIH	Post-doctoral Fellow	Genetics	7/95-7/98
NICHD, NIH	Post-doctoral Fellow	Developmental Biol.	6/92-6/95
UC, Berkeley	Ph.D. student/TA/RA	Neurobiology	1986-1991
UFRJ, Brazil	Research Assistant	Neurobiology	1982- 1984

PUBLICATIONS IN DISCIPLINE

Refereed Publications

Saldana-Caboverde, A., Perera, E.M., Watkins-Chow, D., Hansen, N.A., Vemulapalli, M., Mullikin, J.C., NISC Comparative Sequencing Program, Pavan, W.J., Kos, L. (2015) The Transcription Factors *Ets1* and *Sox10* Interact During Murine Melanocyte Development. *Dev Bio* 407:300-12.

Carneiro, F., Kruihof, B.P.T., Balani, K., Agarwal, A., Gaussin, V., Kos, L. (2015) Relationships between melanocytes, mechanical properties and extracellular matrix composition in the mouse heart valves. *Long Term Eff Med Implants* 25: 17-26.

Benaduce, A.P., Batista, D., Grilo, G., Jorge, K., Cardero, D., Milikowski, C., Kos, L. (2014) Novel UV-induced melanoma mouse model dependent on Endothelin 3 signaling. *Pigment Cell and Melanoma Res.* 27: 839-42.

Martinez, C., Rath, S., Van Gulden, S., Pelaez, D., Alfonso, A., Fernandez, N., Kos, L., Cheung, H., Ramaswamy, S. (2013) Periodontal ligament cells cultured under steady-flow environments demonstrate potential for use in heart valve tissue engineering. *Tissue Eng Part A.* 19:458-66.

Kaelin, C.B., Xu, X., Hong, L.Z., David, V.A., McGowan, K.A., Schmidt-Küntzel, A., Roelke, M.E., Pino, J., Pontius, J., Cooper, G.M., Manuel, H., Swanson, W.F., Marker, L., Harper, C.K., van Dyk, A., Yue, B., Mullikin, J.C., Warren, W.C., Eizirik, E., Kos, L., O'Brien, S.J., Barsh, G.S., Menotti-Raymond, M. (2012) Specifying and sustaining pigmentation patterns in domestic and wild cats. *Science.* 337:1536-41.

Lahiri, D., Benaduce, A.P., Rouzaud, F., Solomon, J., Keshri, A. K., Kos, L., Agarwal, A. (2011) Wear Behavior and In-vitro Cytotoxicity of Wear Debris Generated from Hydroxyapatite- Carbon Nanotube Composite Coating. *J. Biomedical Mater. A,* 96A: 1–12.

Lahiri D, Singh V, Benaduce AP, Seal S, Kos L, Agarwal, A. (2011) Boron nitride nanotube reinforced hydroxyapatite composite: Mechanical and tribological performance and in-vitro biocompatibility to osteoblasts. *J Mech Behav Biomed Mater.* 4:44-56.

Lahiri D, Benaduce AP, Kos L, Agarwal, A. (2011) Quantification of carbon nanotube induced adhesion of osteoblast on hydroxyapatite using nano-scratch technique. *Nanotechnology.* 22:355703.

Lahiri, D., Rouzaud, F., Richard, T., Keshri, A.K., Bakshi, S.R., Kos, L., Agarwal, A. (2010) Boron Nitride Nanotube Reinforced Polylactide-Polycaprolactone Copolymer Composite: Mechanical Properties and Cytocompatibility with Osteoblasts and Macrophages *in vitro*. *Acta Biomaterialia.* 6: 3524-3533.

Perera E.M., Bao, Y., Kos L, Berkovitz, G. (2010) Structural and functional characterization of the mouse tescalcin promoter. *Gene.*;464:50-62.

Rouzaud, F., Oulmouden, A., Kos, L. (2010) The untranslated side of hair and skin mammalian pigmentation: beyond coding sequences. *IUMB Life.* 62: 340-6.

Saldana-Caboverde, A. and Kos, L. (2010) Roles of endothelin signaling in melanocyte development and melanoma. *Pigment Cell and Melanoma Res.* 23: 160-170.

Lahiri, D., Rouzaud, F., Namin, S., Keshri, A. K., Valde's J.J., Kos, L., Tsoukias, N., Agarwal, A. (2009) Carbon nanotube reinforced polylactide-caprolactone copolymer: mechanical strengthening and interaction with human osteoblasts in vitro. *App. Mat. Interface,* 11: 2470-76.

Balani, K., Brito, F. C., Kos, L., Agarwal, A. (2009) Melanocyte pigmentation stiffens murine cardiac tricuspid valve leaflet. *J. Royal Soc Interface.* 6:1097-102.

Brilo, F.C. and Kos, L. (2008) Timeline and distribution of melanocyte precursors in the mouse heart. *Pigment Cell Melanoma Res.* 21:464-70.

Garcia, R.J., Ittah, A., Mirabal, S., Figueroa, J., Lopez, L., Glick, A.B., Kos, L. (2008) Endothelin 3 induces Skin Pigmentation in a Keratin-driven Inducible Mouse Model. *J. Invest. Dermatol.* 128, 131-42.

Patel, R. and Kos, L. (2005) Endothelin-1 and neuregulin-1 convert embryonic cardiomyocytes into cells of the conduction system in the mouse. *Dev. Dyn.* 233, 20-25.

Kozmik, Z., Daube, M., Frei, E., Norman, B., Kos, L., Dishaw, L.J., Noll, M., Piatigorsky, J. (2003) Role of Pax genes in eye evolution: an ancestral PaxB gene uniting Pax2 and Pax6 functions. *Developmental Cell.* 5, 773-785.

Piatigorsky, J., Norman, B., Dishaw, L.J., Kos, L., Horwitz, J., Steinbach, P.J., Kozmik, Z. (2001) J3-crystallin of the jellyfish lens: Similarity to saposins. *Proceedings of the National Academy of Sciences, USA.* 98, 12362-12367.

Perera, E.M., Martin H., Seeherunvong, T., Kos, L., Hughes, L.A., Hawkins, J.R., Berkovitz, G. (2001) *Tescalcin*, a novel gene belonging to the family of EF-hand Ca²⁺ binding proteins, *Col9a3* and *Renin* are expressed in the mouse testis during early stages of gonadal differentiation. *Endocrinology* 142, 455-463.

Kos, L., Takayama, H., Maina, F., Ponzetto, C., Merlino, G., Pavan, W.J. (1999) Hepatocyte Growth Factor/Scatter Factor-MET signaling in neural crest-derived melanocyte development. *Pigment Cell Research.* 12, 13-21.

Opdecamp, K., Kos, L., Arnheiter, H., Pavan, W.J. (1998) Endothelin signalling in the development of neural crest-derived melanocytes. *Biochemistry and Cell Biology.* 76, 1093-1099.

Southard-Smith, E.M., Kos, L., Pavan, W.J. (1998). *Sox 10* mutation disrupts neural crest development in Dom Hirschsprung mouse model. *Nature Genetics.* 18, 60-64.

Kos, L., Chiang, C., Mahon, K.A. (1998). Mediolateral patterning of somites: Axial signals including *Sonic hedgehog* regulate *Nkx-3.1* expression. *Mechanisms of Development* 70, 25-34.

Duncan, M.K., Kos, L., Jenkins, N.A, Gilbert, J.C., Copeland, N.G., Tomarev, S.I. (1997). Eyes Absent: a gene family found in several metazoan phyla. *Mammalian Genome* 8, 479-485.

Tomarev, S.I., Callaerts, P., Kos, L., Zinovieva, R., Halder, G., Gehring, W., Piatigorsky, J. (1997). Squid *Pax-6* and eye development. *Proceedings of the National Academy of Science, USA.* 94, 2421-2426.

Hellmich, H.L., Kos, L., Cho, E.S., Mahon, K.A., Zimmer, A. (1996). Embryonic expression of glial cell-line derived neurotrophic factor (GDNF) suggests multiple developmental roles in neural differentiation and epithelial-mesenchymal interactions. *Mechanisms of Development.* 54, 95-105.

Gleizer*, L., and Stent, G. (1993). Developmental origin of segmental identity in the leech mesoderm. *Development*, 117, 177-189.

Volchan, E., Bernardes, R.F., Rocha-Miranda, C.E., Gleizer*, L., Gawryszewski, L.G. (1988). The ipsilateral field representation in the striate cortex of the opossum. *Experimental Brain Research*. 73, 297-304.

Volchan, E., Kos, L., Gawryszewski, L.G., Bernardes, R.F., Rocha-Miranda, C.E. (1984). Reference axis for visuotopy in the opossum's striate cortex. *Brazilian Journal of Medical and Biological Research*. 17, 5-7.

Book Chapters

Pino, J and Kos, L. (2013) The regulation of skin and hair pigmentation by signaling pathways and related disorders. *In Skin Pigmentation: Genetics, Geographic Variation and Disorders*, pp.57-88. Nova Science Publishers, NY, USA.

Kos, L. and Garcia, R. (2004) Molecular Biology and Applications. *In Biomedical Technology and Devices Handbook*, pp.13-1- 19. CRC Press, FL, USA.

*Gleizer, L.: Name used previously

PRESENTED PAPERS AND LECTURES

Invited Talks

“Ets1 and melanocyte development”, July 2014, Institut Curie, Orsay Cedex, France.

“The role of Ets1 in melanocyte development”, May 2013, Pigment Cell Development Workshop, Edinburgh, Scotland.

“What are melanocytes doing in the heart?”, April 2013, Department of Physiology and Biophysics, Miller School of Medicine, Miami, FL

“The other ones: non-cutaneous melanocytes”, September 2011, XXIst International Pigment Cell Conference, Bordeaux, France.

“Mouse models of melanoma based on the over-expression of Endothelin 3 signaling”, December 2010, NHGRI/NIH, Bethesda, MD

“Endothelin 3 in melanocyte development and pathogenesis”, May 2009, Department of Biochemistry and Molecular Biology, Miller School of Medicine, Miami, FL

“Endothelin in melanocyte development and pathogenesis”, September 2006, Centro de Investigacion del Cancer, Salamanca, Spain

“Signaling in melanocyte and Purkinje fiber development”, January 2006, College of Biomedical Sciences, FAU, Davie, FL

“Converting mammalian cardiomyocytes into Purkinje fibers: roles for ET-1 and NRG-1.”
February 2005, Medical University of South Carolina, Charleston, NC

“Inducible transgenic expression of Edn3: A mouse model of dermal melanocytosis”, December
2004, Johnson & Johnson, Skin Research Center, Skillman, NJ

“Over-expression of EdnrB or Edn3 produces opposite pigmentation phenotypes”, September
2004, ESPCR 2004, Institut Curie, Paris, France

“Signaling in Melanocyte Development”, January 2003
Department of Biological Sciences, Florida International University

“Signaling in Melanocyte Development”, December 2002
Program of Neurosciences, Federal University of Rio de Janeiro, Brazil

“Signaling in Neural Crest Development”, April 2002
Department of Biophysics and Physiology, University of Miami Medical School

"Loss of/Gain of Function Animal Models", November 2000
Division of Pediatrics, University of Miami Medical School

“Making a melanocyte – Genetic Controls”, October 1998
Department of Anatomy and Cell Biology, University of Miami Medical School

“Nkx-3.1 and somite patterning”, May 1994
Laboratory of Developmental Genetics, NINDS, NIH

“Developmental Origin of Segmental Identity in the Leech”, March 1992
EK Shriver Center, Waltham

“Developmental Origin of Segmental Identity in the Leech”, March 1992
Department of Genetics, Harvard Medical School

Contributed Papers (selected from over 60 since 1998)

Benaduce, A.P., Batista, D., Grilo, G., Jorge, K., Cardero, D., Milikowski, C., Kos, L. Ultraviolet radiation induces carcinogenesis in a novel transgenic mouse model of melanoma. American Association for Cancer Research Annual Meeting 2014. San Diego, CA, 2014.

Chin, N., Garcia, R., Borobia, M. Role of Endothelin 3 in melanoma progression and metastasis. American Association for Cancer Research Annual Meeting 2013. Washington, DC, 2013

Benaduce, A.P., Batista, D., Grilo, G., Jorge, K., Kos, L. UV radiation interacts with Endothelin 3 and loss of nucleotide excision repair pathway to promote melanomagenesis. American Association for Cancer Research Annual Meeting 2013. Washington, DC, 2013

Pino, J., Ito, S., Wakamatsu, K., Kos, L. Endothelin 3 affects murine coat color by regulating the production of both eumelanin and pheomelanin. PanAmerican Society for Pigment Cell Research, Madison, WI. 2013

Saldana-Caboverde, A. and Kos, L. Ets1 interacts with Sox10 for proper melanocyte development. PanAmerican Society for Pigment Cell Research, Madison, WI. 2013

Saldana-Caboverde, A., and Kos, L. The transcription factors Ets1 and Sox10 interact during murine melanocyte development. Mouse Molecular Genetics Meeting, Pacific Grove, CA. 2012

Benaduce, A. P., Grilo, G., Batista, D., Kos L. UV induces melanomagenesis in a Nucleotide Excision Repair deficient mouse model dependent on the over-activation of Endothelin-3. International Melanoma Congress, Tampa, FL. 2011

Saldana-Caboverde, A., Ortega, J., Kos, L. UV radiation interacts with Endothelin-3 and loss of the Cdkn2a locus to promote melanomagenesis. International Melanoma Congress, Tampa, FL. 2011

Pino, J. and Kos, L. Edn3 over-expression compensates for the reduced levels of skin and coat color pigmentation in Agouti yellow mice. ABRCMS, St. Louis, MI. 2011

Chin, N., Gallegos, J.C., Cruz, R., Kos, L. Edn3 promotes metastasis and alters tumour heterogeneity in a mouse model of melanoma. XXIst International Pigment Cell Conference, Bordeaux, France 2011

Saldana-Caboverde, A. and Kos, L. Ets1 interacts with Sox10 during melanocyte development. XXIst International Pigment Cell Conference, Bordeaux, France 2011

Benaduce, A. P., Lahiri, D., Agarwal, A., Kos, L. Melanocytes and melanoma cells present different mechanical properties that can be modulated by Endothelin 3. XXIst International Pigment Cell Conference, Bordeaux, France 2011

Benaduce, A. P., Lahiri, D., Agarwal, A., Kos, L. Effects of Endothelin 3 on Biomechanics of Melanocytes and Melanoma Cells. NanoFlorida 2011- The Fourth Annual Nanoscience Technology Symposium, Miami, FL. 2011

Saldana-caboverde, A. and Kos, L. The role of Ets1 in melanocyte development. 50th Annual Meeting of The American Society for Cell Biology, Philadelphia, PA. 2010

Chin, N., Gallegos, J.C., Cruz, R., Kos, L. Endothelin 3 is required in the local microenvironment to accelerate tumor growth and promote metastasis in a mouse model of melanoma. 50th Annual Meeting of The American Society for Cell Biology, Philadelphia, PA. 2010

Benaduce, A. P., Lahiri, D., Agarwal, A., Kos, L. Nanoindentation reveals differences in the mechanical properties of melanocytes and melanoma cells. 50th Annual Meeting of The American Society for Cell Biology, Philadelphia, PA. 2010

Chin, N., Gallegos, J.C., Cruz, R., Kos, L. Endothelin 3 accelerates tumor growth and promotes metastasis in a mouse model of melanoma. XVIth Annual Meeting of Pan American Society for Pigment Cell Research, Vancouver, Canada. 2010

Lahiri, D. Benaduce, A. P., Facca, Kos, L., Jessel, N., Agarwal, A. Mechanical Properties and Biocompatibility in-vitro and in-vivo of Plasma Sprayed Carbon Nanotube Reinforced Hydroxyapatite Coatings for Orthopedic Implants. 1st TMS-ABM International Materials Congress, Rio de Janeiro, Brazil 2010

Lahiri, D., Benaduce, A. P., Solomon, J., Keshri, A., Kos, L., Agarwal, A. Investigation on Wear Resistance of Plasma Sprayed Hydroxyapatite-Carbon Nanotube Composite Coating on Orthopedic Implant and Cytotoxicity of Wear Debris. International Conference and Exposition on Advanced Ceramics and Composites, Daytona, FL. 2010

Chin, N., Kos, L. The Role of Endothelin 3 in Melanoma Progression and Metastasis. International Melanoma Congress. Boston, MA. 2009

Lahiri, D., Rouzaud, F., Richard, T., Keshri, A. K., Bakshi, S. R., Kos, L., Agarwal, A. Poly Lactide-Caprolactone Copolymer - Boron Nitride Nanotube: A Novel Polymer Composite for Biodegradable Scaffold Application. Third International Conference on Mechanics of Biomaterials & Tissues, Clearwater Beach, FL. 2009

Fernandez, N., Brito, F. C., Kos, L. The Role of Sox10 in Cardiac Development. Weinstein Cardiovascular Development Conference, San Francisco, CA. 2009

Brito, F.C., Balani, K., Agarwal, A., Kos, L. Neural Crest Derived Melanocytes Affect the Biomechanical Properties of the Tricuspid Valve Leaflet. Weinstein Cardiovascular Development Conference, San Francisco, CA. 2009

Rouzaud, F., Lahiri, D., Agarwal, A., Kos, L. Study of Melanocytes Mechanical Properties by Nanoindentation Uncovers Membrane Plasticity Behavior. 15th Panamerican Society for Pigment Cell Research Meeting, Memphis. 2009

Lowenstein, M., Diaz, D., Kos, L. Interaction between the transcription factor *Sox10* and *Endothelin receptor B* in the melanocyte lineage. The Amer. Soc. for Cell Biology Annual Meeting. San Francisco, CA. 2008

Saldana, A., Kos, L. *Endothelin receptor b (Ednrb)* expression pattern and role in the developing murine central nervous system. The Amer. Soc. for Cell Biology Annual Meeting. San Francisco, CA. 2008

Ittah, A., Mirabal, S., Kos, L. Early, over-expression of the endothelin signaling pathway leads to the generation of ectopic melanoblasts. 14th Annual PASPCR Meeting, Chicago, IL. 2007

Brito, F. and Kos, L. Melanocytes in the developing and adult atrioventricular valves. The Weinstein Conference in Cardiac Development. Indianapolis, IN. 2007

Brito, F. C. and Kos, L. The origin of melanocytes in the heart. The Weinstein Conference in Cardiac Development. St. Petersburg, FL. 2006

Kwon, C. and Kos, L. Cardiac neural crest cells affect murine cardiac conduction system development. The Weinstein Conference in Cardiac Development. St. Petersburg, FL. 2006

Lowenstein, M.K., Ittah, A., Gerzenstein, S., Kos, L. Transgenic expression of *Ednrb* rescues the spotting phenotype of *Sox10* mutant mice. 19th International Pigment Cell Conference, Reston, VA.2005

Mirabal, S., Ittah, A., Garcia, R. J., Kos, L. Amount of *Edn3* is the limiting factor for normal melanocyte development. 19th International Pigment Cell Conference, Reston, VA. 2005

Fernandez, I., Perera, E.M., Kos, L. The role of *ErbB3* in melanocyte development. 19th International Pigment Cell Conference, Reston, VA. 2005

Garcia, R.J., Ittah, A., Mirabal, S., Lopez, L., Kos, L. Endothelin 3 induces skin pigmentation in an inducible mouse model. 19th International Pigment Cell Conference, Reston, VA. 2005

Patel, R. and Kos, L. Endothelin-1 and Neuregulin-1 up-regulate the expression of cardiac conduction system specific genes in murine embryonic cardiomyocytes. Experimental Biology Meeting: American Association of Anatomists/ Cardiac Conduction Mini-Meeting. Washington, DC 2004

Ittah, A. and Kos, L. Early, over and mis-expression of Endothelin Receptor B causes coat color spotting. PASPCR XIIth Annual Meeting. Newport Beach, CA.2004

Garcia, R., Lopez, L., Gerzenstein, S., Iglesias, R., Kos, L. Endothelin 3 causes hyperpigmentation in an inducible mouse model. PASPCR XIIth Annual Meeting. Newport Beach, CA. 2004

Perera, E., Mandat, S., Kos, L Effects of heregulin-1 on neural crest cultures and melanoblast cell lines. PASPCR XIIth Annual Meeting. Newport Beach, CA.2004

Ittah, A., Ouyang, J., Luebke, A., Kos, L. Rescue of cochlear dysfunction in the *piebald lethal* mouse. 27th Annual MidWinter Meeting of the Association for Research in Otolaryngology, Daytona Beach, FL. 2004

Patel, R. and Kos, L. Endothelin and Neuregulin Signaling in murine Purkinje fiber development. 43rd Annual Meeting of the American Society for Cell Biology, San Francisco, CA. 2003

Ittah, A., Salazar, A., Kos, L. Transgenic expression of endothelin receptor B rescues the pigmentation phenotype of *splotch* mice. 11th Annual Meeting of the PanAmerican Society for Pigment Cell Research, Cape Cod, MA. 2003

Mandat, S., Ayala, A., Ittah, A., Kos, L. Identification of genes downstream of the endothelin signaling pathway in melanocyte development. Mouse Molecular Genetics Meeting, Cold Spring Harbor, NY. 2002

Ittah, A. and Kos, L. Over-expression of endothelin receptor B causes coat color spotting or rescues this phenotype in *piebald lethal* mice. Mouse Molecular Genetics Meeting, Cold Spring Harbor, NY. 2002

Salazar, A. and Kos, L. Does *Pax3* regulate the expression of *EDNRB* during murine neural crest development? 61st Annual Developmental Biology Meeting. Madison, WS. 2002

Patel, R. and Kos, L. The role of endothelin signaling in murine Purkinje fiber development. 61st Annual Developmental Biology Meeting. Madison, WS. 2002

Kos, L., Ittah, A., Pannerselvam, K. Transgenic expression of *EdnrB* rescues the pigmentation phenotype of *piebald lethal* mice. XVIIIth International Pigment Cell Conference. Egmond aan Zee, The Netherlands. 2002

Kos, L., Mandat, S., Ayala, A., Ittah, A. Identification of genes acting downstream of the endothelin signaling pathway during neural crest development. XVIIIth International Pigment Cell Conference, Egmond aan Zee, The Netherlands. 2002

Grant Proposals Submitted (pending)

Title: Targeting HMGA2 Mediated EMT in BRAF Mutated Melanoma

PI: Lidia Kos

Funding Agency: NIH

Amount: \$100,000

Duration: 2017/2019

Current Research Projects

The generation of UV dependent mouse models of melanoma (interactions of UV, endothelin signaling pathway and mutations in tumor suppressor genes).

The role of the endothelin signaling pathway in melanoma metastasis.

Interaction between the Endothelin and Melanocortin pathways in melanocytes .

Transcriptional regulation of melanocyte development.

The contribution of neural crest cells to cardiac development.

Mechanical and electrical properties of normal and transformed melanocytes.

FUNDED RESEARCH

Title: The role of Metabotropic Glutamate Receptor 1 in leptomeningeal melanoma

PI: Lidia Kos

Funding Agency: Moffit Cancer Center/NIH Skin Spore

Amount: \$50,000

Duration: 2016/2017

Title: The role of *Ets1* in melanocyte development

PI: Lidia Kos

Funding Agency: NIH/NIAMS

Amount: \$300,000

Duration: 2012-2016

Title: Generation of a UV Dependent Mouse Model of Melanoma
PI: Lidia Kos
Funding Agency: NIH/NCI/1SC2CA138175
Amount: \$225,000
Duration: 2008-2012

Title: Development of a α -MSH/Edn3 based topical composition for skin wound-healing and re-pigmentation.
PI: Lidia Kos
Funding Agency: FIU Pino Global Entrepreneurship Center
Amount: \$15,000
Duration: 2009

Title: ErbB3 in Melanocyte Development
PI: Lidia Kos
Funding Agency: FIU Access to Biomedical Research Program/NIH
Amount: \$4,000
Duration: 2006

Title: Signaling in Melanocyte Development
Sub-Project PI: Lidia Kos
Funding Agency: NIH/NIGM/MBBRS 2S06GM08205
Amount: \$279,757
Duration: 2002-2004

Title: Analysis of Transgenic Over-Expression of Edn3 in the Skin
PI: Lidia Kos
Funding Agency: FIU/College of Arts and Sciences
Amount: \$5,000
Duration: 2004

Title: Regulation of Ednrb in Melanocyte Precursors
PI: Lidia Kos
Funding Agency: FIU Access to Biomedical Research Program/NIH
Amount: \$5,000
Duration: 2004

Title: Identification of Genes in Melanocyte Precursors
PI: Lidia Kos
Funding Agency: FIU Access to Biomedical Research Program/NIH
Amount: \$4,500
Duration: 2003

Title: Signaling in Cardiac Development
PI: Lidia Kos
Funding Agency: American Heart Association 01WM029
Amount: \$60,000
Duration: 2001-2002

Title: Identification of Candidate Genes for Hirschsprung's Disease

PI: Lidia Kos
Funding Agency: FIU Provost's Office Summer Competition
Amount: \$12,748
Duration: 2000

PROFESSIONAL HONORS, PRIZES, FELLOWSHIPS

Outstanding Graduate Program Director Award, FIU Provost, 2016
Kauffman Professor Award, Pino Center FIU, 2009
FIU Foundation Research Award, 2006
College of Arts and Sciences Research Award, FIU, 2004
Excellence in Teaching Award, FIU, 2004
Provost's Summer Research Award, FIU, 2000
Outstanding Oral Presentation Award, National Human Genome Research Institute, 1996
Fogarty Postdoctoral Fellowship, 1992-1996
Outstanding Graduate Instructor Award, UC, Berkeley, 1990
The Elizabeth Roboz Einstein Fellowship in Developmental Neurosciences, 1990
Abraham Rosenberg Research Fellowship, 1990
Regent's Fellowship, UC, Berkeley, 1988-1989
Doctoral Fellowship, National Council for Research, Brazil, 1985-1989
Trainee Fellowship, National Council for Research, Brazil, 1982-1984

OFFICES HELD IN PROFESSIONAL SOCIETIES

Council Member, PanAmerican Society for Pigment Cell Research, 2007-2009, 2012-present

OTHER PROFESSIONAL ACTIVITIES AND PUBLIC SERVICE

Professional Affiliations

American Association for the Advancement of Science
PanAmerican Society for Pigment Cell Research
The American Society for Cell Biology
The Society for Melanoma Research

Review of Manuscripts

Journal of Neurosciences
Mechanisms of Development
Pigment Cell and Melanoma Research (Editorial board, Executive Editor)
International Journal of Developmental Biology
Circulation Research
Journal of Investigative Dermatology
Archives Dermatological Research
PLoS Genetics (Guest Editor)
PLoS One

Experimental Dermatology
Oncotarget
Acta Histochemica

Review of Grant Proposals

Member, National Science Foundation REU 2001-2002 review panel
Member, National Science Foundation UMEB 2003 review panel
Member, American Heart Association CVD 2006-2009 review panel
Member, American Heart Association CVD 2012-2013 review panel
Member, NIH/NIAMS, RO3 2014-present review panel
Ad-hoc, Wellcome Trust UK, 2013
Ad-hoc, Ohio Cancer Research Associates 2015
Ad-hoc, Iceland Research Fund, 2015

Meeting Organization

Weinstein Meeting in Cardiovascular Development, St. Petersburg, FL. May 2005. Organizing Committee Member

International Pigment Cell Research Meeting, Reston, VA. September 2005.
Chair: Plenary Section III: Developmental Biology

15th Panamerican Society for Pigment Cell Research Meeting, Memphis, 2009.
Chair: Plenary Section: Developmental Biology.

Genetics and Development of Melanocytes Workshop IPCC, Bordeaux, France. September 2011. Organizing Committee Member

FIU Service

Department

Graduate Committee (Member – 8 years - and Chair-5 years)
Honors Committee (Member – 3 years)
Biology Seminar Series (Chair- 4 years)
Tissue Culture Facility (Chair- 5 years)
Animal Facility (Chair- 4 years)
Facilities Committee (Member- 2 years)
Executive Committee (Member- 3 years)
Job Search and Screening:
Microbiology
Gene Regulation (2 years)
Molecular/Cell Biology
Cell Biology (2 years)
Evolutionary Developmental Biology (2 years)
Molecular Neurobiology
Neurobiology (Chair)
RNA Biology

College

Pre-Medical Advising Committee (Member 5 years)

Founding committee member for the Institute of Biomolecular Sciences

Search Committee: joint position for the Institute of Biomolecular Sciences

University

Faculty Senate 2008 (Senator)

Dissertation Advisor Status Committee 2008-2009 (Member and Chair)

MARC program selection committee (2009-2012)

Graduate Council 2009-2014 (Vice-Chair 3 years. Ex-officio 2 years)

IACUC 2010-present (Member)

Undergraduate Research Committee 2012-2014 (Member)