

Curriculum Vita – Diane Hoffman-Kim, Ph.D.

1. Diane Hoffman-Kim, Ph.D.

Associate Professor of Medical Science
Associate Professor of Engineering
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2. 49 Irving Avenue
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3. Education

1988 B.S. *cum laude*, University of Rochester – Optics Engineering
1993 Ph.D., Brown University – Medical Science
Dissertation title: *Nerve Regeneration in the Septo-Hippocampal System: Enhancement by Polymer and Cellular Technology*

4. Professional appointments

1993-1996 Post-doctoral Fellow (National Research Service Award), Department of Brain and Cognitive Sciences, Massachusetts Institute of Technology
1996-1997 Post-doctoral Fellow (National Research Service Award), Department of Molecular and Cellular Biology, Harvard University
1997-1998 Science Scholar, The Bunting Institute of Radcliffe College and Department of Molecular and Cellular Biology, Harvard University
1998-2001 Assistant Professor (Research), Department of Surgery, Brown University
2001-2007 Assistant Professor of Medical Science, Department of Molecular Pharmacology, Physiology, and Biotechnology; Assistant Professor of Engineering, Division of Engineering, Brown University
2007-2010 Director, Graduate Program in Biomedical Engineering, Brown University
2007-present Associate Professor of Medical Science, Department of Molecular Pharmacology, Physiology, and Biotechnology; Associate Professor of Engineering, Division of Engineering, Brown University

5. Research and scholarship

Refereed journal articles

1. Child SZ, **Hoffman D**, Strassner D, Carstensen EL, Gates AH, Cox C, and Miller MW. A test of I2T as a dose parameter for fetal weight reduction from exposure to ultrasound. *Ultrasound in Medicine & Biology* 15(1): 39-44, 1989.
2. Miller MW, Azadniv M, Pettit SE, Church, Carstensen EL, and **Hoffman D**. Sister chromatid exchanges in chinese hamster ovary cells exposed to high intensity pulsed ultrasound: inability to confirm previous positive results. *Ultrasound in Medicine & Biology* 15(3): 255-262, 1989.
3. Carstensen EL, Campbell DS, **Hoffman D**, Child SZ, and Ayme-Bellegarda EJ. Killing of *drosophila* larvae by the fields of an electrohydraulic lithotripter. *Ultrasound in Medicine & Biology* 16(7): 687-698, 1990.
4. **Hoffman D**, Wahlberg L, and Aebischer P. NGF released from a polymer matrix prevents loss of ChAT expression in basal forebrain neurons following a fimbria-fornix lesion. *Experimental Neurology* 110: 39-44, 1990.

Curriculum Vita – Diane Hoffman-Kim, Ph.D.

5. **Hoffman D**, Breakefield XO, Short MP, and Aebischer P. Transplantation of a polymer encapsulated cell line genetically engineered to release NGF. *Experimental Neurology* 122: 100-106, 1993.
6. **Hoffman-Kim D**, Lander AD, and Jhaveri S. Regional differences in immunostaining for chondroitin sulfate in the developing tectum reflect differential GAG biosynthesis. *Journal of Neuroscience* 18: 5881-5890, 1998. PMID: 9671675.
7. Hong T, Maish MS, Cohen J, Fitzpatrick P, Bert AA, Harper J, Feng D, **Hoffman-Kim D**, and Hopkins RA. Reproducible echocardiography in juvenile sheep and its application in the evaluation of a pulmonary valve homograft implant. *Contemporary Topics in Laboratory Animal Science* 39: 15-21, 2000. PMID: 11040870.
8. **Hoffman-Kim D**, Kerner J, Chen A, Xu A, Wang T-F, and Jay DG. pp60c-src is a negative regulator of laminin-mediated neurite outgrowth in chick sensory neurons. *Mol Cell Neurosci* 21(1): 81-93, 2002. PMID: 12359153.
9. Maish MS, **Hoffman-Kim D**, Krueger P, Souza J, Harper J, and Hopkins RA. Tricuspid valve biopsy – a potential source of cardiac myofibroblast cells for tissue engineered cardiac valves. *Journal of Heart Valve Disease* 12:264-269, 2003.
10. **Hoffman-Kim D**, Maish MS, Krueger P, Lukoff H, Bert A, Hong T, and Hopkins RA. Comparison of three myofibroblast cell sources for tissue engineering cardiac valves. *Tissue Engineering* 11: 288-301, 2005.
11. Song HK, Toste B, Ahmann K, **Hoffman-Kim D***, and Palmore GTR*. Micro-patterns of positive guidance cues anchored to polypyrrole doped with polyglutamic acid: a new platform for characterizing neurite extension in complex environments. *Biomaterials* 27(3): 473-484, 2006. [*Corresponding authors]
12. Goldner JS, Bruder JM, Li G, Gazzola D, and **Hoffman-Kim D**. Neurite bridging across micropatterned grooves. *Biomaterials* 27(3): 460-472, 2006. PMID: 16115675.
13. Bruder JM, Monu N, Harrison M, and **Hoffman-Kim D**. Fabrication of polymer replicas of cell surfaces with nanoscale resolution. *Langmuir* 22(20): 8263-8265, 2006. (Article featured on the websites of Biocompare, The Engineer Online, Materials Research Society, Medical News Today, PhysOrg, Science Daily, and Scientific Frontline.). PMID: 16981733.
14. Li G, Livi LL, Gourd CM, Deweerd ES, and **Hoffman-Kim D**. Genomic and morphological changes of neuroblastoma cells in response to three-dimensional matrices. *Tissue Engineering* 13: 1035-1047, 2007. (Article featured in *Genome Technology* July/August 2007.)
15. Bruder JM, Lee A, and **Hoffman-Kim D**. Biomimetic materials replicating Schwann cell topography enhance neuronal adhesion and neurite alignment in vitro. *Journal of Biomaterials Science, Polymer Edition* 18: 967-982, 2007. (Special issue on “Materials for Neural Engineering”). PMID: 17705993.
16. Li G and **Hoffman-Kim D**. Tissue engineered platforms of axon guidance. *Tissue Engineering B* 14(1): 33-51, 2008. PMID: 18454633.
17. Li G, Liu J, and **Hoffman-Kim D**. Multi-molecular gradients of permissive and inhibitory cues direct neurite outgrowth. *Annals of Biomedical Engineering* 36(6): 889-904, 2008. PMID: 18392680.
18. Abe TK, Honda T, Takei K, Mikoshiba K, **Hoffman-Kim D**, Jay DG, and Kuwano R. Dynactin is essential for growth cone advance. *Biochemical and Biophysical Research Communications* 372: 418-422, 2008.
19. Li GN and **Hoffman-Kim D**. Evaluation of neurite outgrowth using a novel application of circular analysis. *J Neurosci Methods* 174: 202-214, 2008.
20. Kofron CM, Fong VJ, and **Hoffman-Kim D**. Neurite outgrowth at the interface of 2D and 3D growth environments. *J Neural Engineering* 6: 016002, 2009. PMID: 19104140.
21. Kofron CM and **Hoffman-Kim D**. Optimization by response surface methodology of confluent and aligned cellular monolayers for nerve guidance. *Cellular and Molecular Bioengineering* 2(4): 554-572, 2009. PMID: 20625538.

Curriculum Vita – Diane Hoffman-Kim, Ph.D.

22. Kofron CM, Liu Y-T, Lopez-Fagundo CY, Mitchel JA, and **Hoffman-Kim D**. Neurite outgrowth at the biomimetic interface. *Annals of Biomedical Engineering* 38(6): 2210-2225, 2010. doi:10.1007/s10439-010-0054-y. PMID: 20440561.
23. **Hoffman-Kim D**, Mitchel JA, and Bellamkonda RV. Topography, cell response, and nerve regeneration. *Annual Review of Biomedical Engineering* 12: 201-231, 2010. 10.1146/annurev-bioeng-070909-105351. PMID: 20438370.
24. Kim S, Kim K-M, **Hoffman-Kim D**, Song H-K, and Palmore G. Quantitative control of neuron adhesion at a neural interface using a conducting polymer composite with low electrical impedance. *ACS Applied Materials & Interfaces* 3(1): 16-21, 2011. PMID: 21142128.
25. Kim K-M, Kim S-Y, Minxha J, Richardson J, **Hoffman-Kim D**, and Palmore GTR. A novel method for analyzing images of live nerve cells. *J Neurosci Methods* 201: 98-105, 2011.
26. Richardson J, Rementer C, Bruder J, and **Hoffman-Kim D**. Guidance of dorsal root ganglion neurites and Schwann cells by isolated Schwann cell topography on poly(dimethyl siloxane) conduits and films. *J Neural Eng* 8: 046015, 2011. PMID: 21673394.
27. Mitchel JA and **Hoffman-Kim D**. Cellular scale anisotropic topography guides Schwann cell motility. *PLoS ONE* 6(9): e24316. doi:10.1371/journal.pone.0024316. 2011. PMID: 21949703.

Chapters in books

1. **Hoffman-Kim D**, Diefenbach TJ, Eustace BK and Jay DG. Chromophore-assisted laser inactivation (CALI). *Methods in Cell Biology* 82, 2007. PMID: 17586263.

Non-refereed journal articles

1. **Hoffman-Kim D**. On being a postdoctoral scientist. *Science and Engineering Ethics* 1(3): 3-4, 1995.
2. Jhaveri S and **Hoffman-Kim D**. Unilateral containment of retinal axons by tectal glia: a possible role for sulfated proteoglycans. *Progress in Brain Research* 108: 135-148, 1996. PMID: 8979799.
3. Bird SJ and **Hoffman-Kim D**. Damned if you do, damned if you don't: what the scientific community can do about whistleblowing. *Science and Engineering Ethics* 4(1): 3-5, 1998.
4. **Hoffman-Kim D**. Women scientists in laboratory culture – perspectives from an academic scientist in training. *Annals of the New York Academy of Sciences* 869: 106-109, 1999.
5. **Hoffman-Kim D**. Comment on “Normative Orientations of University Faculty and Doctoral Students.” *Science and Engineering Ethics* 6: 463-465, 2000.
6. Hopkins RA, **Hoffman-Kim D** and Maish MS. Commentary on “Prospective randomized trial of azathioprine in cryopreserved valved allografts in children.” *Ann Thorac Surg* 71: 47-48, 2001.
7. **Hoffman-Kim D**. Heart Valves. *Science and Medicine* 8(2): 62-64, 2002.
8. Richardson J and **Hoffman-Kim D**. The importance of defining ‘data’ in data management policies. *Science and Engineering Ethics* 16(4): 749-751, 2010. doi:10.1007/s11948-010-9223-5. PMID: 20853179.

Abstracts

1. **Hoffman D**, Wahlberg L, and Aebischer P. NGF released from a polymer matrix prevents loss of ChAT expression in basal forebrain neurons following a fimbria-fornix lesion. *Society for Neuroscience Abstracts* 16: 477, 1990.
2. **Hoffman D**, Breakefield XO, Short MP, and Aebischer P. Transplantation of polymer-encapsulated NGF-releasing cells prevents lesion-induced reduction in ChAT expression by septal cells. *Society for Neuroscience Abstracts* 17: 571, 1991.
3. **Hoffman D**, Breakefield XO, Short MP, Humke E, Nguyen T, and Aebischer P. Transplantation of a polymer-encapsulated cell line genetically engineered to release nerve growth factor. *Restorative Neurology & Neuroscience* 4(3): 204, 1992.

Curriculum Vita – Diane Hoffman-Kim, Ph.D.

4. Aebischer P, **Hoffman D**, Short MP, and Breakefield X. Transplantation of polymer encapsulated genetically engineered cells for the treatment of neurological diseases. Gene Therapy Meeting, Cold Spring Harbor, New York, 1992.
5. **Hoffman D** and Aebischer P. Septo-hippocampal regeneration through biosynthetic bridges containing adult Schwann cells. *Society for Neuroscience Abstracts* 18: 627, 1992.
6. **Hoffman D** and Aebischer P. Guidance channels containing adult Schwann cells induce cholinergic nerve regeneration in the septo-hippocampal system. *Society for Neuroscience Abstracts* 19: 623, 1993.
7. **Hoffman-Kim D**, Lander AD, and Jhaveri S. Isolation of proteoglycans from the developing superior colliculus of the Syrian hamster. *Society for Neuroscience Abstracts* 20(2): 1294, 1994.
8. **Hoffman-Kim D**, Lander AD, and Jhaveri S. Metabolic labeling of glycosaminoglycans in the developing superior colliculus of the Syrian hamster. *Society for Neuroscience Abstracts* 21(2): 1295, 1995.
9. **Hoffman-Kim D**, Lander AD, and Jhaveri S. Regional differences in tectal chondroitin sulfate expression reflect differential rates of glycosaminoglycan biosynthesis. *Society for Neuroscience Abstracts* 22(1): 34, 1996.
10. **Hoffman-Kim D**, Chen A, Xu A, Wang TF, Lu Z, and Jay DG. Laser inactivation of pp60c-src increases the rate of neurite extension in chick dorsal root ganglia neurons. *Society for Neuroscience Abstracts* 23(2): 1414, 1997.
11. Jay DG, Takei K, and **Hoffman-Kim D**. Addressing a link between neural cell adhesion molecule L1 and pp60csrc during neurite outgrowth. *Meeting of the International Society for Neurochemistry*, Berlin, August 8-14, 1999.
12. Maish MS, **Hoffman-Kim D**, Krueger PM, Brahmanandam SM, Brown LA, Harper J, and Hopkins RA. Tricuspid valve biopsy as a potential source of cells for tissue engineered cardiac valve replacement. *Engineering Tissues Conference*, Hilton Head, February 21, 2001.
13. Brown LA, Hopkins RA, and **Hoffman-Kim D**. Evaluation of extracellular matrix components in decellularized cardiac valve: toward a tissue engineered heart valve. *National Society of Black Engineers Conference*, March 2001.
14. Maish MS, **Hoffman-Kim D**, Krueger PM, Hilbert S, and Hopkins RA. An animal model for the evaluation of valve conduits: a comparison of cryopreserved sheep pulmonary valve allografts and human cryopreserved aortic valve xenografts. *American College of Surgeons*, October 2001.
15. Yu P, Goldner J, Bruder J, and **Hoffman-Kim D**. Micron-scale topography supports neurite bridging. *International Society of Biological Engineering Conference on Bioengineering and Nanotechnology -- Singapore*, September 2004.
16. Goldner J, Bruder J, Gazzola D, and **Hoffman-Kim D**. Neurite bridging across micropatterned grooves. *Annual Meeting of the Biomedical Engineering Society*, October 2004.
17. Bruder J, Livi L, Simkevich C, and **Hoffman-Kim D**. Gene expression of neurons in three-dimensional collagen matrix. *Society for Biomaterials Meeting-- Biomaterials in Regenerative Medicine: The Advent of Combination Products*, October 2004.
18. Goldner JS, Bruder JM, Li G, Gazzola D, and **Hoffman-Kim D**. Effects of groove dimensions on neurite bridging across micropatterned grooves. *Annual Meeting of the Biomedical Engineering Society*, October 2004.
19. Goldner J, Bruder J, Li G, Gazzola D, and **Hoffman-Kim D**. Neurite bridging across micropatterned grooves. *Nanotech2004 Montreux*, November 2004.
20. Song H-K, Ahmann KA, Venkataramani S, Yeom H-Y, **Hoffman-Kim D**, Nurmikko AV, Paine DC, and Palmore GTR. Artificial extracellular matrices: polymer films modified by positive cues to promote cell adhesion and neurite extension. *Annual Meeting of the Materials Research Society*, December 2004.
21. Song H-K, Toste B, Ahmann K, Palmore GTR, and **Hoffman-Kim D**. New materials for neurite extension: micro-patterned polymers doped with positive guidance cues. *Annual Meeting of the Society for Biomaterials*, April 2005.

Curriculum Vita – Diane Hoffman-Kim, Ph.D.

22. Li G, Liu J, and **Hoffman-Kim D.** Neurite outgrowth on multi-molecular gradients. *Annual Meeting of the Society for Biomaterials*, April 2005.
23. **Hoffman-Kim D.** Directing axons in complex environments - insights for regenerative tissue engineering. *Annual Meeting of the American Society for Neural Transplantation and Repair*, April 2005.
24. Bruder J, Goldner J, and **Hoffman-Kim D.** Formation of neurite bridges on micropatterned substrates. *Annual Meeting of the Biomedical Engineering Society*, October 2005.
25. Li G, Liu J, Cheng E, and **Hoffman-Kim D.** Neurite outgrowth on gradients of permissive and inhibitory cues. *Annual Meeting of the Biomedical Engineering Society*, October 2005.
26. Song HK, Palmore GTR, and **Hoffman-Kim D.** Micro-patterning of nerve guidance cues anchored to polypyrrole. *Annual Meeting of the Biomedical Engineering Society*, October 2005.
27. Bruder J, Goldner JS, Santos M, and **Hoffman-Kim D.** Cellular extensions bridge across micropatterned grooves. *Annual Meeting of the Biomedical Engineering Society*, October 2005.
28. **Hoffman-Kim D**, Monu N, and Bruder JM. Fabrication of polymeric replicas of cell surfaces with nanoscale resolution. *Annual Meeting of the Society for Biomaterials*, April 2006.
29. Gourd C, Deweerd E, Livi L, Li G, and **Hoffman-Kim D.** Genomic and morphological analysis of human neuroblastoma cell growth in three-dimensional matrices. *Annual Meeting of the Society for Biomaterials*, April 2006.
30. Gourd C, Fong V, and **Hoffman-Kim D.** Neurite outgrowth in response to micropatterned molecular cues and three dimensional matrices. *Annual Meeting of the Society for Biomaterials*, April 2006.
31. Deweerd ES, Li GN, and **Hoffman-Kim D.** Promotion of neurite outgrowth on multi-molecular gradients by modulating downstream Rho pathways. *Annual Meeting of the Society for Biomaterials*, April 2006.
32. Bremus-Koebberling EA, Bruder JM, and **Hoffman-Kim D.** Neuron-material interactions on surfaces with complex topographies. *Regenerate World Congress*, April 2006.
33. **Hoffman-Kim D**, Monu N, and Bruder JM. Fabrication of polymeric replicas of cell surfaces with nanoscale resolution. *Regenerate World Congress*, April 2006.
34. Bremus-Koebberling E and **Hoffman-Kim D.** Neurite growth on micropatterned surfaces with complex topographies. *Annual Meeting of the Biomedical Engineering Society*, October 2006.
35. Bruder J, Santos MA, and **Hoffman-Kim D.** Nerve guidance channels composed of novel biomimetic nanoscale materials. *Annual Meeting of the Biomedical Engineering Society*, October 2006.
36. Gourd C, Fong V, and **Hoffman-Kim D.** Neuronal growth at the interface of 2D and 3D cues. *Annual Meeting of the Biomedical Engineering Society*, October 2006.
37. Li G, Deweerd E, and **Hoffman-Kim D.** Neurite growth on gradients of inhibitory and permissive cues. *Annual Meeting of the Biomedical Engineering Society*, October 2006.
38. Bruder JM, Monu N, Harrison M, and **Hoffman-Kim D.** Neuronal growth on nanopatterned biomimetic materials. *Annual Meeting of the Biomedical Engineering Society*, October 2006.
39. Richardson J, Li G, and **Hoffman-Kim D.** Surface topography and adhesivity influence Schwann cell bridging. *Annual Meeting of the Biomedical Engineering Society*, October 2006.
40. Kim S-Y, Song H-K, **Hoffman-Kim D**, and Palmore GTR. Electrically-conductive micropatterns that promote cell adhesion and neurite extension. *Annual Meeting of the Materials Research Society*, 2007.
41. Bruder JM, Santos MA, and **Hoffman-Kim D.** Neurite growth in biomimetic guidance channels containing Schwann cell topography. *Annual Meeting of the Biomedical Engineering Society*, September 2007.
42. Li GN, Cheng E, and **Hoffman-Kim D.** Effects of RhoGTPases on neurite outgrowth on multimolecular gradients. *Annual Meeting of the Biomedical Engineering Society*, September 2007.
43. Gourd C, Rollo J, and **Hoffman-Kim D.** Neurite outgrowth on aligned glial cell topographies. *Annual Meeting of the Biomedical Engineering Society*, September 2007.

Curriculum Vita – Diane Hoffman-Kim, Ph.D.

44. Siell J, **Hoffman-Kim D**, and Webster T. Neural cell adhesion and organization on micropatterned zinc oxide nanoparticle substrates. *Annual Meeting of the Biomedical Engineering Society*, September 2007.
45. Pallay J, Lee A, Bruder J, and **Hoffman-Kim D**. Competing cues influence dorsal root ganglia growth. *Annual Meeting of the Biomedical Engineering Society*, September 2007.
46. Bruder JM, Lee AP, and **Hoffman-Kim D**. Substrate-bound biochemical and biomimetic cell-shaped topographical cues direct neuronal growth. *Northeast Bioengineering Conference*, April 2008.
47. Li GN and **Hoffman-Kim D**. Comparison of neurite outgrowth on opposing and parallel multimolecular gradients. *Northeast Bioengineering Conference*, April 2008.
48. Kofron CM, Rollo JC, Bruder JM, Johnson CM, and **Hoffman-Kim D**. Alignment of glial cell topographies for directed neurite outgrowth. *Northeast Bioengineering Conference*, April 2008.
49. Richardson J, Kim K-M, Kofron C, Kim SY, **Hoffman-Kim D**, and Palmore GT. Novel platform to assess neurite outgrowth in response to multiple cues. *Northeast Bioengineering Conference*, April 2008.
50. Li GN and **Hoffman-Kim D**. Effects of relative directions of multimolecular gradients on neurite outgrowth. *Annual Meeting of the Biomedical Engineering Society*, October 2008.
51. Richardson J, Kim K-M, Kofron C, Kim SY, Palmore GT, and **Hoffman-Kim D**. Neurite outgrowth in response to electrical and molecular cues. *Annual Meeting of the Biomedical Engineering Society*, October 2008.
52. Mitchel J, Finn M, Li G, and **Hoffman-Kim D**. Schwann cells and neurons exhibit distinct horizontal and vertical motilities. *Annual Meeting of the Biomedical Engineering Society*, October 2008.
53. Kofron CM, Pallay J, and **Hoffman-Kim D**. Biomimetic materials presenting Schwann cell topography direct growth of neurons and support cells. *Annual Meeting of the Biomedical Engineering Society*, October 2008.
54. Bruder JM, Lee AP, and **Hoffman-Kim D**. Neurite growth on substrates combining biomimetic Schwann cell topography and biochemical cues. *Annual Meeting of the Biomedical Engineering Society*, October 2008.
55. Johnson C, Kofron C, and **Hoffman-Kim D**. Combination of Schwann cell topography and patterned chondroitin sulfate proteoglycan influences dorsal root ganglia neurite growth. *Annual Meeting of the Biomedical Engineering Society*, October 2008.
56. Kim KM, Kim SY, Richardson J, Kofron C, **Hoffman-Kim D**, and Palmore GTR. Electrical stimulation of nerve cells: image analysis of cell behavior. *Materials Research Society Annual Meeting*, December 2008.
57. **Hoffman-Kim D**. Tissue Engineered Models of Axon Guidance. *Tissue Engineering and Regenerative Medicine International Society North America Meeting*, December 2008.
58. Nath N, Zhang P, Kofron C, King M, **Hoffman-Kim D**, and Mende U. Novel in vitro culture model for cardiac myocyte investigation. *New England Science Symposium*, April 2009.
59. Richardson JA and **Hoffman-Kim D**. Biomimetic Schwann cell features within polymeric conduits direct neurite extension. *Annual Meeting of the Biomedical Engineering Society*, October 2009.
60. Kofron CM and **Hoffman-Kim D**. Design of experiments and response surface methodology as tools for optimization of confluent and aligned cellular monolayers for nerve guidance. *Annual Meeting of the Biomedical Engineering Society*, October 2009.
61. Pallay JE, Kofron CM, Liu Y-T and **Hoffman-Kim D**. Bioinspired topographies for guided Schwann cell, neuron and neurite growth. *Annual Meeting of the Biomedical Engineering Society*, October 2009.
62. Kofron CM, Johnson CM, Bruder JM, Lee AP and **Hoffman-Kim D**. Combinations of Schwann cell topography and patterned molecular cues influence neuron growth. *Annual Meeting of the Biomedical Engineering Society*, October 2009.

Curriculum Vita – Diane Hoffman-Kim, Ph.D.

63. Mitchel J, Tripathi A and **Hoffman-Kim D**. Motility of Schwann cells on micropatterned and microgrooved culture platforms. *Annual Meeting of the Biomedical Engineering Society*, October 2009.
64. Rementer CW, Richardson JA and **Hoffman-Kim D**. Schwann cell migration and alignment from dorsal root ganglia are directed by biomimetic topography. *Annual Meeting of the Biomedical Engineering Society*, October 2009.
65. Lopez-Fagundo C, Kofron CM and **Hoffman-Kim D**. Guided neuronal growth on biomimetic materials coated with laminin, NCAM, or poly-L-lysine. *Annual Meeting of the Biomedical Engineering Society*, October 2009.
66. Nath N, Zhang P, Kofron C, King M, **Hoffman-Kim D** and Mende U. Cardiac myocyte behavior in micropatterned and continuously paced short-term cultures. *J Mol Cell Cardiol* 46(5) Suppl 1: S18, P-53 (2009).
67. Zhang P, King M, Nath N, Kofron C, **Hoffman-Kim D** and Mende U. Effects of continuous electrical field stimulation and hypertrophic stimulation on micropatterned cardiac myocytes. *Annual Meeting of the Biophysical Society*, February 2010.
68. Mitchel J, Ramchal T and **Hoffman-Kim D**. Guided Schwann cell motility on cellular scale anisotropic topography. *Annual Meeting of the Biomedical Engineering Society*, October 2010.
69. Richardson JA, Rementer CW and **Hoffman-Kim D**. Guidance of dorsal root ganglion neurites and Schwann cells by biomimetic Schwann cell topography. *Annual Meeting of the Biomedical Engineering Society*, October 2010.
70. Lopez-Fagundo C and **Hoffman-Kim D**. What makes a nerve guidance feature? –Novel materials inspired by Schwann cells. *Annual Meeting of the Biomedical Engineering Society*, October 2010.
71. Liu Y-T, Morgan JR and **Hoffman-Kim D**. Neural, astroglial and endothelial heterotypic cell-cell interactions in 3D. *Annual Meeting of the Biomedical Engineering Society*, October 2010.
72. Liu Y-T, Livi L, Morgan J, and **Hoffman-Kim D**. A novel in vitro 3D microtissue platform for the study of microenvironment cues' influence on lineage decisions. *New England Society for Developmental Biology Meeting*, March 2011.
73. Lopez-Fagundo C, Ramchal T, Liu Y-T, and **Hoffman-Kim D**. What makes a nerve guidance feature? –Novel materials inspired by Schwann cells. *New England Science Symposium*, April 2011.
74. Richardson JA, Rementer CW, and **Hoffman-Kim D**. Guidance of dorsal root ganglion neurites and Schwann cells by isolated Schwann cell topography. *New England Science Symposium*, April 2011.
75. Mitchel J and **Hoffman-Kim D**. Cellular Scale Anisotropic Topography Guides Schwann Cell Motility. *Biomethods Conference*, July 2011.
76. Liu Y-T, Livi L, Morgan J, and **Hoffman-Kim D**. Using 3D microtissues to investigate neural stem cell integration into host tissue. *Biomethods Conference*, July 2011.
77. Lopez-Fagundo C, Ramchal T, Liu Y-T, and **Hoffman-Kim D**. Engineered Materials Inspired by Schwann Cells- Understanding the Role of Schwann Cell Topography in Axon Guidance. *Gordon Research Conference*, July 2011.
78. Richardson JA, Rementer CW, and **Hoffman-Kim D**. Guidance of dorsal root ganglion neurites and Schwann cells by isolated Schwann cell topography. *Gordon Research Conference*, July 2011.
79. Liu Y-T, Livi L, Morgan J, and **Hoffman-Kim D**. Engineering Mini Brains: Self-Assembled 3D Neural Microtissues. *Rhode Island Showcase*, October 2011.
80. Richardson JA, Rementer CW, Chau DB, and **Hoffman-Kim D**. Following the leader? Schwann cell and neuronal outgrowth in biomimetic nerve guidance channels and replicas. *Rhode Island Showcase*, October 2011.
81. Mitchel J and **Hoffman-Kim D**. A Matlab-based algorithm for automatic tracing of confluent neuronal images. *Annual Meeting of the Biomedical Engineering Society*, October 2011.

Curriculum Vita – Diane Hoffman-Kim, Ph.D.

82. Liu Y-T, Livi L, Morgan J, and **Hoffman-Kim D**. An in vitro transplant model for investigating neural stem cell engraftment. *Annual Meeting of the Biomedical Engineering Society*, October 2011.
83. Liu Y-T, Livi L, Boutin M, Ramchal T, Morgan J, and **Hoffman-Kim D**. Self-assembled 3D neural cultures for investigating stem cell transplantation. *Annual Meeting of the Biomedical Engineering Society*, October 2012.
84. **Hoffman-Kim D**, Lopez-Fagundo C, Richardson J, Kofron C, Mitchel J, Liu Y-T, Chau D, Johnson C, Ramchal T, Bruder J. Engineered materials inspired by Schwann cells – investigating the role of cellular topography in axon guidance *Society for Biomaterials Annual Meeting*, October 2012.
85. Lopez-Fagundo C, Ramchal T, Labriola N, **Hoffman-Kim D**, and Darling EM. A biomimetic synthetic feeder layer supports mouse embryonic stem cell culture. *Annual Meeting of the Biomedical Engineering Society*, October 2012.
86. Liu Y-T, Ramchal T, Boutin M, Morgan J, and **Hoffman-Kim D**. Enhanced neuronal differentiation of neural stem cells in 3D self-assembled culture. *Annual Meeting of the Biomedical Engineering Society*, October 2012.
87. Mitchel JA and **Hoffman-Kim D**. Schwann cell motility is directed by asymmetric micropatterns. *Annual Meeting of the Biomedical Engineering Society*, October 2012.
88. **Hoffman-Kim D**, Choi B-R, Koren G, Mende U, Centracchio J, Kim TY, King ME, Livi L, Li Y, Park-Windhol C, Zhang P, and Yang B. Novel micropatterned culture model for developing new therapeutic strategies for sudden cardiac death. *Rhode Island Hospital Research Celebration*, November 2012.

Invited lectures (2001 – present)

1. Brown University. Brown Corporation Meeting. Providence, RI. September 2001.
2. Brown University. Biomedical Engineering Seminar Series. Providence, RI. April 2002.
3. Connecticut College. Department of Biology Seminar Series. New London, CT. April 2004.
4. Montreux, Switzerland. Nanotech 2004. November 2004.
5. Harvard Medical School and Massachusetts General Hospital. Seminar Series in Biomedical Sciences and Engineering. Center for Engineering in Medicine. Boston, MA. December 2004.
6. University of Massachusetts, Lowell. Seminar Series in Biomedical Engineering. Lowell, MA. January 2005.
7. American Society for Neural Transplantation and Repair Annual Meeting. Presidential Lecture. Clearwater, FL. April 2005.
8. Clemson University. NIH/NSF BCBI Seminar Series in Biomedical Engineering. Clemson, SC. July 2005.
9. University of Louisville Spinal Cord Research Center. Neurology Grand Rounds. Louisville, KY. October 2005.
10. Brown University. Brain Science Program Seminar Series. Providence, RI. November 2005.
11. Rensselaer Polytechnic Institute. Department of Biomedical Engineering Seminar Series. Troy, NY. April 2006.
12. University of Texas, Austin. Department of Biomedical Engineering NSF/IGERT Seminar Series. Austin, TX. September 2006.
13. Case Western Reserve University. Department of Biomedical Engineering Neural Engineering Seminar Series. Cleveland, OH. October 2007.
14. University of Rochester. Department of Biomedical Engineering Seminar Series. Rochester, NY. December 2007.
15. Brown University School of Medicine. Department of Clinical Neurosciences Grand Rounds. Providence, RI. April 2008.
16. Brown University School of Medicine. Cardiovascular Research Center Seminar Series. Providence, RI. May 2008.

Curriculum Vita – Diane Hoffman-Kim, Ph.D.

17. New England Complex Fluids Symposium. University of Rhode Island. Kingston, RI. June 2008.
18. University of California, Irvine. Department of Pathology & Laboratory Medicine. Seminars in Experimental Pathology Series. Irvine, CA. May 2009.
19. Brown University School of Medicine. Department of Orthopedics Seminar Series. Providence, R.I. June 2009.
20. Brown University School of Medicine. Department of Surgical Research Seminar Series. Providence, R.I. January 2010.
21. University of Rochester. Nanotechnology Symposium. Rochester, NY. May 2011.
22. National Science Foundation. CBET Grantees Conferences. Baltimore, MD. June 2012.
23. Worcester Polytechnic Institute. Seminar Series in Biomedical Engineering. Worcester, MA. April 2013.

U.S. Patents

1. Dionne KE, Emerich DF, **Hoffman D**, Sanberg PR, Christenson L, Hegre OD, Scharp DW, Lacy PE, Aebischer P, Vasconcellos AV, Lysaght MJ, and Gentile FT. Implantable biocompatible immunoisulatory vehicle for delivery of selected therapeutic products. U.S. patent #5,798,113. Issued 8/25/98.
2. Dionne KE, Emerich DF, **Hoffman D**, Sanberg PR, Christenson L, Hegre OD, Scharp DW, Lacy PE, Aebischer P, Vasconcellos AV, Lysaght MJ, and Gentile FT. Implantable biocompatible immunoisulatory vehicle for delivery of selected therapeutic products. U.S. patent #5,800,828. Issued 9/1/98.
3. Dionne KE, Emerich DF, **Hoffman D**, Sanberg PR, Christenson L, Hegre OD, Scharp DW, Lacy PE, Aebischer P, Vasconcellos AV, Lysaght MJ, and Gentile FT. Methods for coextruding immunoisulatory implantable vehicles with a biocompatible jacket and a biocompatible matrix core. U.S. patent #5,800,829. Issued 9/1/98.
4. Dionne KE, Emerich DF, **Hoffman D**, Sanberg PR, Christenson L, Hegre OD, Scharp DW, Lacy PE, Aebischer P, Vasconcellos AV, Lysaght MJ, and Gentile FT. Methods for making immunoisulatory implantable vehicles with a biocompatible jacket and a biocompatible matrix core. U.S. patent #5,834,001. Issued 11/10/98.
5. Dionne KE, Emerich DF, **Hoffman D**, Sanberg PR, Christenson L, Hegre OD, Scharp DW, Lacy PE, Aebischer P, Vasconcellos AV, Lysaght MJ, and Gentile FT. Methods for treating diabetes by delivering insulin from biocompatible cell-containing devices. U.S. patent #5,869,077. Issued 2/9/99.
6. Dionne KE, Emerich DF, **Hoffman D**, Sanberg PR, Christenson L, Hegre OD, Scharp DW, Lacy PE, Aebischer P, Vasconcellos AV, Lysaght MJ, and Gentile FT. Methods for treatment or prevention of neurodegenerative conditions using immunoisulatory implantable vehicles with a biocompatible jacket and a biocompatible matrix core. U.S. patent #5,871,767. Issued 2/16/99.
7. Dionne KE, Emerich DF, **Hoffman D**, Sanberg PR, Christenson L, Hegre OD, Scharp DW, Lacy PE, Aebischer P, Vasconcellos AV, Lysaght MJ, and Gentile FT. Methods for making immunoisulatory implantable vehicles with a biocompatible jacket and a biocompatible matrix core. U.S. patent #5,874,099. Issued 2/23/99.
8. Hopkins RA and **Hoffman-Kim D**. Cardiac valve replacement. U.S. patent #6,652,583. Issued 11/25/03.
9. Dionne KE, Emerich DF, **Hoffman D**, Sanberg PR, Christenson L, Hegre OD, Scharp DW, Lacy PE, Aebischer P, Vasconcellos AV, Lysaght MJ, Gentile FJ. Implantable biocompatible immunoisulatory vehicle for delivery of selected therapeutic products. U.S. patent #6,960,351. Issued 11/1/05.
10. Bruder JM and **Hoffman-Kim D**. Topographical templating of polymeric materials using cellular morphology. Patent pending. PCT application #60/707,912. Filed 8/4/06.

6. Research in progress

Curriculum Vita – Diane Hoffman-Kim, Ph.D.

Manuscripts in preparation

1. Richardson JA, Kofron C, Johnson C, Mitchel J, Bruder JM, and **Hoffman-Kim D**. Combinations of Schwann cell topography and patterned molecular cues influence neuron growth. In preparation, 2012.
4. Zhang P, King M, Nath N, Kofron C, **Hoffman-Kim D**, Mende U. Effects of continuous electrical field stimulation and hypertrophic stimulation on micropatterned cardiac myocytes. In preparation, 2012.

7. Service (September 2001 – present)

a. Service to the University

Undergraduate Honors Advisor, Concentration in Biomedical Engineering, 2001-2007

Strategic Planning Team, Division of Biology and Medicine - Biomedical Engineering Focus Area, March – April 2002

Graduate Program Committee, Biomedical Engineering, 2003-present

Search Committee, Brain Science Program, Faculty position in neurotechnology, 2005-2006

Tissue Engineering Working Group, Brown University, 2005-present

Public Disclosure Subcommittee of NEASC Accreditation Self-Study, Brown University, 2007

Health Careers Advisory Committee, Brown University, 2007-2008

Search Committee, Chair of Obstetrics and Gynecology, 2007-2008

Director, Graduate Program in Biomedical Engineering, 2007-2010

Academic Priorities Committee, 2008-2011

Research Advisory Board, 2008-2011

Office of Women in Science and Medicine Advisory Board, 2009-present

Internal Advisory Board, Nanotechnology GAANN, 2010-present

Engineering and Applied Sciences Building Planning Committee, 2010-2011

Search Committee, Engineering School, Faculty position in biomedical engineering, 2010-2011

Knowledge District Working Group, 2011-present

Internal Advisory Board, TRAINing for Success in Biomedical Research Careers, 2011-present

Freshman Advisor, 2002-2004

Leadership Alliance Advisor, 2003

Sophomore Advisor, 2003-2004

Undergraduate Honors Theses Advisor, 2001 - present

Ph.D. Comprehensive Examination Committees

Anthony Napolitano, 2005

Tecla Mtui, 2005

Batur Ercan, 2007

Sung Yeol Kim, 2007

Sabrina Puckett, 2007

Dylan Dean, 2007

Avital Braiman, 2007

Bryan Laulich, 2008

Danya Decoteau, 2008

Jacquelyn Youssef, 2008

Justin Seil, 2008

Kwang-Min Kim, 2008

Lorin Jacubek, 2009

Jason Gaudette, 2010

Cristina Lopez-Fagundo, 2010

Yu-Ting Liu, 2011

Olivia Beane, 2012

Curriculum Vita – Diane Hoffman-Kim, Ph.D.

Sc.M. Thesis Committees

Donald Ho, 2008

Ph.D. Thesis Committees

Mary Ellen Sandor, 2001

Daniele Abramson, 2002

Jennifer Godbee, 2003

Nausheen Rahman, 2003

Diana Ferris, 2004

Edwin Edwards, 2006

Haitao Qian, 2007

Ana Jaklenec, 2007

Stacia Furtado, 2007

Anthony Napolitano, 2007

John Jarrell, 2008

Dylan Dean, 2008

Bryan Laulicht, 2010

Brian Bao, 2012

b. Service to the Profession

Editorial board member, *Science and Engineering Ethics*, 2002-present.

Reviewer, Center for Scientific Review ZRG1 SSS-M (56), R21 Advanced Biomaterials RFA, 2003.

Vice president, Tissue Engineering Special Interest Group, Society for Biomaterials, 2003-2005.

Co-chair, Neural Interfaces session, Biomedical Engineering Society Annual Meeting, 2005.

NSF site visit review team, Engineering Research Center, University of Southern California, 2005-2007.

Internal advisory board, Center for Restorative and Regenerative Medicine, Brown University and Providence VA Medical Center, 2006-2009.

Reviewer, Biomedical Engineering Program, regular proposals, National Science Foundation, 2006-present.

Co-chair, Special Symposium on Translational Biomaterials, Society for Biomaterials Annual Meeting, 2007.

Chair, Biomedical Engineering session, American Society for Neural Transplantation and Repair Annual Meeting, 2007.

Co-chair, Neural Tissue Engineering session, Biomedical Engineering Society Annual Meeting, 2007.

Reviewer, Center for Scientific Review ZRG1 MDCN-K(50), 2007-present.

Program Chair, Northeast Bioengineering Conference, 2008.

Steering Committee Member, Neural Interfaces Conference, 2010.

Advanced Functional Materials, Reviewer

Biomaterials, Reviewer

Biotechnology and Bioengineering, Reviewer

Journal of Biomedical Biomaterials Research A, Reviewer

Journal of Neural Engineering, Reviewer

Tissue Engineering, Reviewer

8. Academic honors, research grants, fellowships

a. Previous

The Rhode Island Foundation

Title: Tissue Engineered Cardiac Valve Replacement

PI: D. Hoffman-Kim

Project Period: 1/1/99 – 12/31/99

Curriculum Vita – Diane Hoffman-Kim, Ph.D.

The Children's Heart Foundation

Title: Tissue Engineered Pediatric Cardiac Valve Replacement.

PIs: D. Hoffman-Kim and R.A. Hopkins

Project Period: 6/1/99 – 12/31/02

Salomon Faculty Research Award, Brown University

Title: Following Directions in the Central Nervous System: Incorporation of Multiple Cues

PI: D. Hoffman-Kim

Project Period: 3/1/02 – 2/28/03

Seed Funding Grant, Brown University

Title: Seed Funds in the Area of Bio-Materials

PI: C. Briant

Co-PIs: K. Breuer, **D. Hoffman-Kim**, J. Morgan, G.T.R. Palmore, T. Powers

Project Period: 7/1/03 – 3/31/05

Center Of Biomedical Research Excellence Award, National Institutes of Health

Title: Center for Genetics and Genomics (Project C)

PI: J. Sedivy (E. Hawrot - Project leader Core C)

Sub-project leader: D. Hoffman-Kim

Project Period: 9/1/03 – 8/31/05

Direct Costs to DHK: \$72,213

Hood Foundation Child Health Research Grant, Charles H. Hood Foundation

Title: Axon Guidance by Permissive and Inhibitory Molecular Gradients

PI: D. Hoffman-Kim

Project Period: 1/1/04 – 6/30/06

Biomedical Engineering Research Grant, Whitaker Foundation

Title: Following Instructions for Nerve Regeneration: Incorporation of Permissive and Inhibitory Cues

PI: D. Hoffman-Kim

Project Period: 5/1/03 – 4/30/06

Seed Funding Award

Title: Nanoscale Biomimetic Materials for Nerve Regeneration

PI: D. Hoffman-Kim

Project Period: 2/1/06 – 1/31/07

1 R21 EB004506-01, National Institute of Biomedical Imaging and Bioengineering, National Institutes of Health

Title: Composite Biomaterials for Neurite Outgrowth

PI: D. Hoffman-Kim

Project Period: 3/1/06 – 2/28/09

Center for Restorative and Regenerative Medicine Research and Development Award, Department of Veterans Affairs

Title: Engineering Nerve Repair with Nanoscale Biomimetic Materials

PI: D. Hoffman-Kim

Project Period: 9/1/08 – 9/30/09

ADVANCE Career Development Award, National Science Foundation

Curriculum Vita – Diane Hoffman-Kim, Ph.D.

Title: **ADVANCEment of a Multi-Dimensional Female Leader in Academic Biomedical Engineering**

PI: D. Hoffman-Kim

Project Period: 1/1/08 – 6/30/11

ADVANCE Scientific Leadership Award, National Science Foundation

Title: **Scientific Leadership Award For a Woman Scientist-Engineer to Walk the Walk**

PI: D. Hoffman-Kim

Project Period: 11/15/10 – 6/30/11

Center for Restorative and Regenerative Medicine Research and Development Award, Department of Veterans Affairs

Title: Engineering Nerve Repair with Nanoscale Biomimetic Materials

PI: D. Hoffman-Kim

Project Period: 9/1/10 – 9/30/12

b. Active

CAREER Award, National Science Foundation

Title: CAREER: Axon Guidance by Multiple Cues

PI: D. Hoffman-Kim

Project Period: 2/1/06 – 1/31/12

1 R01 EB005722-01, National Institute of Biomedical Imaging and Bioengineering, National Institutes of Health

Title: Quantifying Axon Growth in Complex Environments

PI: D. Hoffman-Kim

Project Period: 9/1/07 – 6/30/12

BME-RAPD Award, NSF

Title: Axon Guidance by Critical Cues – Engineering Nerve Growth In Vitro and Observing From Afar

PI: D. Hoffman-Kim

Project Period: 4/1/11 - 3/31/13

Seed Funding Award, Brown University

Title: Novel Micropatterned Culture Model for Developing New Therapeutic Strategies for Sudden Cardiac Death

PI: D. Hoffman-Kim

Project Period: 2/1/11 – 1/31/12

9. Teaching (2001 – present)

a. Regular Courses

Spring 2001. BI 108 *Organ Replacement*. Enrollment: 28.

Lecture – Tissue engineered cardiac valves.

Fall 2001. BI 017 *Biotechnology*. Enrollment: 72.

Lecture – Cardiac valve replacement.

Fall 2002. BI 223 *Artificial Organs, Biomaterials and Cellular Technology Seminar*. Enrollment: 11.

1 of 3 course leaders.

Spring 2003. BI 114 *Tissue Engineering*. Enrollment: 11.

Sole course leader.

Fall 2003. BI 183 *Group Research Project*. Enrollment: 7.

Sole course leader.

Curriculum Vita – Diane Hoffman-Kim, Ph.D.

- Spring 2004. BI 114 *Tissue Engineering*. Enrollment: 20.
Sole course leader.
- Spring 2004. BI 184 *Group Research Project*. Enrollment: 7.
Sole course leader.
- Spring 2004. BI 224 *Artificial Organs, Biomaterials and Cellular Technology Seminar*. Enrollment: 13.
1 of 3 course leaders.
- Fall 2004. BI 223 *Artificial Organs, Biomaterials and Cellular Technology Seminar*. Enrollment: 10.
1 of 3 course leaders.
- Spring 2005. BI 224 *Artificial Organs, Biomaterials and Cellular Technology Seminar*. Enrollment: 14.
1 of 3 course leaders.
- Fall 2005. BI 113 *Cell Structure and Movement*. Enrollment: 7.
Lecture – Axon Guidance.
- Fall 2005. BI 223 *Artificial Organs, Biomaterials and Cellular Technology Seminar*. Enrollment: 14.
1 of 3 course leaders.
- Spring 2006. BI 114 *Tissue Engineering*. Enrollment: 18.
Sole course leader.
- Spring 2006. BI 224 *Artificial Organs, Biomaterials and Cellular Technology Seminar*. Enrollment: 13.
1 of 3 course leaders.
- Fall 2006. BI 223 *Artificial Organs, Biomaterials and Cellular Technology Seminar*. Enrollment: 11.
1 of 3 course leaders.
- Spring 2007. BI 114 *Tissue Engineering*. Enrollment: 21.
Sole course leader.
- Spring 2007. BI 224 *Artificial Organs, Biomaterials and Cellular Technology Seminar*. Enrollment: 13.
1 of 3 course leaders.
- Fall 2007. BIOL 2230 *Artificial Organs, Biomaterials and Cellular Technology Seminar*. Enrollment: 12.
1 of 3 course leaders.
- Spring 2008. BIOL 2240 *Artificial Organs, Biomaterials and Cellular Technology Seminar*.
Enrollment: 11. 1 of 3 course leaders.
- Spring 2008. BIOL 1140 *Tissue Engineering*. Enrollment: 17.
Sole course leader.
- Fall 2008. BIOL 2230 *Artificial Organs, Biomaterials and Cellular Technology Seminar*. Enrollment: 11.
1 of 3 course leaders.
- Spring 2009. BIOL 2240 *Artificial Organs, Biomaterials and Cellular Technology Seminar*.
Enrollment: 16. 1 of 3 course leaders.
- Spring 2009. BIOL 1140 *Tissue Engineering*. Enrollment: 21.
Sole course leader.
- Fall 2009. BIOL 2230 *Artificial Organs, Biomaterials and Cellular Technology Seminar*. Enrollment: 14.
1 of 3 course leaders.
- Spring 2010. BIOL 2240 *Artificial Organs, Biomaterials and Cellular Technology Seminar*.
Enrollment: 12. 1 of 3 course leaders.
- Spring 2010. BIOL 1140 *Tissue Engineering*. Enrollment: 21.
Sole course leader.
- Fall 2010. BIOL 2230 *Artificial Organs, Biomaterials and Cellular Technology Seminar*. Enrollment: 15.
1 of 3 course leaders.
- Fall 2011. BIOL 2230 *Artificial Organs, Biomaterials and Cellular Technology Seminar*. Enrollment: 32.
1 of 3 course leaders.
- Spring 2011. BIOL 1140 *Tissue Engineering*. Enrollment: 20.
Sole course leader.
- Spring 2011. BIOL 2240 *Artificial Organs, Biomaterials and Cellular Technology Seminar*. Enrollment:
18. 1 of 3 course leaders.
- Fall 2012. BIOL 2230 *Artificial Organs, Biomaterials and Cellular Technology Seminar*. Enrollment: 32.
1 of 3 course leaders.

Curriculum Vita – Diane Hoffman-Kim, Ph.D.

Spring 2012. BIOL 1140 *Tissue Engineering*. Enrollment: 20.
Sole course leader.

b. Independent Studies

[Fellowship awards: Karen T. Romer Undergraduate Teaching and Research Award (UTRA), Program in Liberal Medical Education Summer Research Assistantship (PLME SRA), and National Science Foundation Research Experience for Undergraduates (NSF REU) programs]

Meera Shah, Biomedical Engineering, 2001-2002
Mathangi Subramanian, Biochemistry, 2001-2002
Millicent Ford, Biomedical Engineering, 2002-2003 (Hughes fellowship)
Pearl Yu, Biomedical Engineering, 2002-2004 (UTRA fellowship)
Shaily Kapur, Biomedical Engineering, 2003-2004 (UTRA fellowship)
Beth Toste, Neuroscience, 2003-2004 (PLME SRA fellowship)
Alex Toy, Biomedical Engineering, 2003-2004 (UTRA fellowship)
Joshua Goldner, Biomedical Engineering, 2003-2005 (UTRA, NSF REU fellowships)
Nhu-An Le, Biomedical Engineering, 2004-2005
Jeffrey Liu, Neuroscience, 2004-2005 (PLME SRA fellowship)
Beverly See, Biology, 2003-2005 (UTRA fellowship)
Caitlin Elgarten, Biology, 2005-2006 (UTRA fellowship)
Vivian Fong, Biomedical Engineering, 2005-2006 (UTRA, NSF REU fellowships)
Jillian Harrison, Biomedical Engineering, 2005-2006
Julia Keith, Biology, 2005-2006
Nicholas Monu, Neuroscience, 2005-2006 (PLME SRA fellowship)
Elise Cheng, Biochemistry, 2006-2007
Andrea Lee, Biology, 2006-2008 (UTRA fellowships)
Julie Richardson, Biomedical Engineering, 2006-2007 (UTRA fellowship)
Johnathon Rollo, Neuroscience, 2006-2007 (NSF REU fellowship)
Michael Angelo Santos, Biomedical Engineering, 2006-2007 (UTRA, NSF REU fellowships)
Jennifer Pallay, Biomedical Engineering, 2007-2008 (UTRA, NSF REU fellowships)
Matthew Finn, Biology, 2007-2008 (UTRA fellowship)
Christina Johnson, Biomedical Engineering, 2007-2009 (UTRA, NSF REU fellowships)
Jesse Thon, Neuroscience, 2007-2009 (UTRA fellowships)
Carmichael Ong, Biomedical Engineering, 2008 (UTRA fellowship)
Cameron Rementer, Biomedical Engineering, 2008-2009 (UTRA fellowship)
Nupur Shridhar, Biochemistry, 2008 (NSF REU fellowship)
Talisha Ramchal, Biology, 2009, 2010 (UTRA, NSF REU fellowships)
Danielle Chau, Neuroscience, 2010, 2011 (UTRA, PLME SRA fellowships)
Emily Hsieh, Biomedical Engineering, 2010, 2011 (Bard, UTRA fellowships)
Cindy Oh, Biology, 2011-2012 (UTRA fellowship)
Ryan Din, Neuroscience, 2011-2012 (UTRA fellowship)
Renan Ribeiro e Ribeiro, 2012 (Bard fellowship)

c. Honors Theses

Meera Shah, Biomedical Engineering 2002, Outstanding Biomedical Engineering Senior Award
Mathangi Subramanian, Biochemistry 2002
Shaily Kapur, Biomedical Engineering 2004
Beth Toste, Neuroscience 2004
Joshua Goldner, Biomedical Engineering 2005
Jeffrey Liu, Neuroscience 2005
Caitlin Elgarten, Biology 2006
Vivian Fong, Biomedical Engineering 2006

Curriculum Vita – Diane Hoffman-Kim, Ph.D.

Nicholas Monu, Neuroscience 2006
Elise Cheng, Biochemistry, 2007
Julie Richardson, Biomedical Engineering, 2007
Jonathon Rollo, Neuroscience, 2007
Michael Angelo Santos, Biomedical Engineering, 2007
Matthew Finn, Biology, 2008
Andrea Lee, Biology, 2008
Jennifer Pallay, Biomedical Engineering, 2008
Christina Johnson, Biomedical Engineering, 2009
Cameron Rementer, Biomedical Engineering, 2010
Talisha Ramchal, Biology, 2011
Danielle Chau, Neuroscience, 2012

d. Master's Theses

Elizabeth Deweerd, Biomedical Engineering 2006
Jennifer Pallay, Biomedical Engineering 2009
Talisha Ramchal, Biotechnology 2012

e. Ph.D. Theses

Jan Bruder, Artificial Organs, Biomaterials, and Cellular Technology 2008
Grace Li, Biomedical Engineering 2008
Celinda Kofron, Biomedical Engineering 2009
Julie Richardson, Biomedical Engineering 2012

10. Date of preparation: September 14, 2012