**Biographical Sketches**

**Magdalene J. Seiler, Ph.D.**; Assistant Professor, Dept. Physical Medicine & Rehabilitation, Sue & Bill Stem Cell Research Center, UC Irvine

EDUCATION/TRAINING

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| INSTITUTION AND LOCATION | DEGREE | Completion Date | FIELD OF STUDY |
| Inst. Zoology, Univ. of Munich, FRG | Diploma | 06/1982 | Biology |
| Max Planck-Institute for Psychiatry, Munich, FRG | PhD | 12/1985 | Neurochemistry |
| Wake Forest University, Winston-Salem, NC | Postdoc | 11/1987 | Retinal Transplantation |
| Eye Research Institute, Boston, MA | Postdoc | 12/1988 | Retinal Transplantation |

**Positions and Employment**

1989 - 1992 Scientific Associate, Eye Research Institute, Boston, MA

1993 - 2002 Assistant Professor, Univ. Louisville Medical School, Dept. Ophthalmology & Visual Sciences, Dept. Anatom. Sciences & Neurobiology, Louisville, KY

2002 - 2006 Assistant Professor of Research Ophthalmology, Doheny Eye Institute and Depts. of Ophthalmology and Cell & Neurobiology, Keck School of Medicine, University of Southern California, Los Angeles, CA

2007 - 2014 Project Scientist, Dept. Anatomy & Neurobiology, UC Irvine

2014 - 2015 Project Scientist, Dept. Physical Medicine & Rehabilitation; UC Irvine, Irvine CA

2015 (Oct.) Assistant Professor; Dept. Physical Medicine & Rehabilitation; UC Irvine

**Selected Publications** (from a toal of 57)**:**

1. **Seiler MJ**, Aramant RB (1998). Intact sheets of fetal retina transplanted to restore damaged rat retinas. *Invest. Ophthalmol. Vis. Sci.*, **39**:2121-2131. PMID: 9761291
2. Radtke ND, Aramant RB, Petry HM, Green PT, Pidwell DJ, **Seiler MJ** (2008). Vision Improvement in Retinal Degeneration Patients by Implantation of Retina Together with Retinal Pigment Epithelium. *Am J Ophthalmol*, **146:**172-182. PMID: 18547537
3. **Seiler MJ**, Aramant RB, Thomas BB, Peng Q, Sadda SR, Keirstead HS. Visual restoration and transplant connectivity in degenerate rats implanted with retinal progenitor sheets. *Eur J. Neurosci*, **31**(3):508-520 (2010). PMID: 20105230; PMCID: PMC2875871
4. **Seiler MJ**, Aramant RB. Cell replacement and visual restoration by retinal sheet transplants. *Prog Retin Eye Res,* **31**:661-687 (2012). PMID: 22771454; PMCID: PMC3472113
5. **Seiler MJ**, et al. (2017). Vision recovery and connectivity by fetal retinal sheet transplantation in an immunodeficient retinal degenerate rat model**.** *Invest. Ophthalmol Vis Sci*, **58**:614-630. DOI 10.1167/iovs.15-19028

**Biju B. Thomas, Ph.D.**, Assistant Professor, Dept. Ophthalmology, USC

EDUCATION/TRAINING

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| INSTITUTION AND LOCATION | DEGREE | Completion Date | FIELD OF STUDY |
| University of Kerala, India | MS | 05/1990 | Zoology |
| University of Kerala, India | Ph.D | 10/1997 | Behavioral Neuroscience |
| University of Louisville, KY, USA | Post-doc | 01/2001 | Retinal Transplantation |

**Positions and Honors**

1998 - 1999 Guest Lecturer, Post-graduate Department of Zoology, St. Stephen’s College, Pathanapuram, Kerala, India

1999 - 2000 Guest Lecturer, Post-graduate Research Department of Zoology, St. Berchman’s College, Changanacherry, Kerala, India

1998 - 2000 Postdoctoral Research Associate, University of Kerala, India

2001 - 2002 Postdoctoral Research Associate, University of Louisville, Louisville, KY

2002 - 2006 Postdoctoral Research Associate, Doheny Eye Institute, Los Angeles, CA

2007 – Present Assistant Professor of Ophthalmology Research, Keck School of Medicine of the University of Southern California, Los Angeles, CA

**Selected Publications** (from a total of 34)**:**

1. **Thomas BB**, Seiler MJ, Sadda SR, Aramant RB. Superior colliculus responses to light--preserved by transplantation in a slow degeneration rat model*. Exp Eye Res* 2004;79:29-39.
2. **Thomas BB**, Arai S, Ikai Y, Qiu G, Chen Z, Aramant RB, Sadda SR, Seiler MJ. Retinal transplants evaluated by optical coherence tomography in photoreceptor degenerate rats. *J Neurosci Methods* 2006;151:186-193.
3. **Thomas BB,** Seiler MJ, Aramant RB, Samant D, Qiu G, Vyas N, Arai S, Chen Z, Sadda SR. Visual functional effects of constant blue light in a retinal degenerate rat model. *Photochem Photobiol* 2007;83:759-765
4. [**Thomas B.B**](http://www.ncbi.nlm.nih.gov/pubmed/?term=Thomas%20BB%5BAuthor%5D&cauthor=true&cauthor_uid=27233037), [Zhu D](http://www.ncbi.nlm.nih.gov/pubmed/?term=Zhu%20D%5BAuthor%5D&cauthor=true&cauthor_uid=27233037), [Zhang L](http://www.ncbi.nlm.nih.gov/pubmed/?term=Zhang%20L%5BAuthor%5D&cauthor=true&cauthor_uid=27233037), [Thomas P.B](http://www.ncbi.nlm.nih.gov/pubmed/?term=Thomas%20PB%5BAuthor%5D&cauthor=true&cauthor_uid=27233037), [Hu Y](http://www.ncbi.nlm.nih.gov/pubmed/?term=Hu%20Y%5BAuthor%5D&cauthor=true&cauthor_uid=27233037), [Nazari H](http://www.ncbi.nlm.nih.gov/pubmed/?term=Nazari%20H%5BAuthor%5D&cauthor=true&cauthor_uid=27233037), [Stefanini F](http://www.ncbi.nlm.nih.gov/pubmed/?term=Stefanini%20F%5BAuthor%5D&cauthor=true&cauthor_uid=27233037), [Falabella P](http://www.ncbi.nlm.nih.gov/pubmed/?term=Falabella%20P%5BAuthor%5D&cauthor=true&cauthor_uid=27233037), [Clegg D.O](http://www.ncbi.nlm.nih.gov/pubmed/?term=Clegg%20DO%5BAuthor%5D&cauthor=true&cauthor_uid=27233037), [Hinton D.R](http://www.ncbi.nlm.nih.gov/pubmed/?term=Hinton%20DR%5BAuthor%5D&cauthor=true&cauthor_uid=27233037), [Humayun M.S](http://www.ncbi.nlm.nih.gov/pubmed/?term=Humayun%20MS%5BAuthor%5D&cauthor=true&cauthor_uid=27233037). Survival and Functionality of hESC-Derived Retinal Pigment Epithelium Cells Cultured as a Monolayer on Polymer Substrates Transplanted in RCS Rats. *Investigative Ophthalmology and Visual Science* 2016, 57:2877-2887.
5. Lin T, Seiler MJ, [Zhu D](http://www.ncbi.nlm.nih.gov/pubmed/?term=Zhu%20D%5BAuthor%5D&cauthor=true&cauthor_uid=27233037), Falabella P, Hinton RD, Clegg D, Humayun MS, **Thomas BB.** Assessment of Safety and Functional Efficacy of Stem Cell-Based Therapeutic Approaches Using Retinal Degenerative Animal Models. *Stem Cells International* 2017 (in press)

**Abraham Lee, Ph.D.**

EDUCATION/TRAINING

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| INSTITUTION AND LOCATION | DEGREE | Completion Date | FIELD OF STUDY |
| University of California at Berkeley | M.Sc. | 5/15/1989 | Mech. Engineering |
| University of California at Berkeley | Ph.D | 10/15/1992 | Mech. Engineering |
| Lawrence Livermore National Laboratory | Postdoc | 11/1/92-03/31/95 | Medical Technology Program |

**Positions and Honors**

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| 1994 - 1999 | PI/Group Leader, Lawrence Livermore National Laboratory | |
| 1999 - 2001 | Program Manager, DARPA |
| 2001 | Senior Technology Advisor, National Cancer Institute |
| 2002 - present | Professor, BME/MAE, University of California, Irvine | |
| 2010 - present | William J. Link Professor and Chair, BME Department |

**Selected Publications** (from a total of 100)**:**

1. Xiaolin Wang\*, et al., **Abraham P. Lee**+,[Engineering anastomosis between living capillary networks and endothelial cell-lined microfluidic channels](http://pubs.rsc.org/en/Content/ArticleLanding/2016/LC/C5LC01050K?utm_medium=email&utm_campaign=pub-LC-vol-16-issue-2&utm_source=toc-alert#!divAbstract)", Lab Chip, 2016, **16**, 282-290
2. Yu-Hsiang Hsu, et al., **Abraham P. Lee**\*. [Full range physiological mass transport control in 3D tissue cultures](http://pubs.rsc.org/en/content/articlelanding/2013/lc/c2lc40787f), *Lab Chip, 2013,13, 81-89*.
3. Duc T. T. Phan, et al.,**Abraham P. Lee**\* and Christopher C. W. Hughes\*, ["A vascularized and perfused organ-on-a-chip platform for large-scale drug screening applications](http://pubs.rsc.org/en/content/articlelanding/2017/lc/c6lc01422d#!divAbstract)", Lab Chip, 2017,17, 511-520