OMB No. 0925-0001/0002 (Rev. 08/12 Approved Through 8/31/2015)

BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors.  
  
Follow this format for each person. DO NOT EXCEED FIVE PAGES.

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| --- |
| NAME: Mody, Avani |
| eRA COMMONS USER NAME (agency login): |
| POSITION TITLE: GRADUATE STUDENT |

EDUCATION/TRAINING *(Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)*

|  |  |  |  |
| --- | --- | --- | --- |
| INSTITUTION AND LOCATION | DEGREE (if applicable) | Completion Date  MM/YYYY | FIELD OF STUDY |
| BHAVANS COLLEGE , MUMBAI UNIVERSITY, Mumbai, Maharastra | BS | 04/2004 | MICROBIOLOGY |
| BANGALORE UNIVERSITY, BANGALORE, KARNATAKA | MS | 04/2006 | APPLIED GENETICS |
| UNIVERSITY OF NORTH TEXAS HEALTH SCIENCE CENTRE, Fort Worth, TX | PHD | 08/2016 | BIOMEDICAL SICENCE (VISUAL SCIENCE) |

### A. Personal Statement

Avani Mody is 5th year graduate student enrolled in NTERI’s PhD program under mentorship of Dr. Abbot Clark. Her research project is focused on understanding the role of transcriptional regulators IDs (inhibitor of DNA binding protein) in trabecular meshwork cells and developing IDs (ID1 and ID3) as novel therapeutic candidate addressing glaucoma pathogenesis. She has presented her work at international conferences like ARVO and Cell symposia. Avani has also successfully secured a Sigma Xi grant (2015) related to her project and is an associate Sigma Xi member. Prior to joining NTERI Lab, Avani had completed her Masters in applied genetics from Bangalore University. After graduating she has worked as research scientist and product developer in S.L.R. Ranbaxy and Xycton diagnostic respectively.

Outside of academics, Avani is involved in fund raising activities for cancer patient and orphan kids. She has also volunteered for relay for life (2009-2013) and vision screening for UNTHSC community outreach program (2015). She was also a professional swimmer and has won several awards in short distance and open water swimming competitions. In her free time she enjoys the company of her cannon 60D, bare foot running and learning about various cultures and cuisines.

1. Mao W, Liu Y, Mody A, Montecchi-Palmer M, Wordinger RJ, Clark AF. Characterization of a spontaneously immortalized bovine trabecular meshwork cell line. Exp Eye Res. 2012 Dec;105:53-9. PubMed PMID: [23116564](http://www.ncbi.nlm.nih.gov/pubmed/23116564/).
2. Rahman M, Zhang Z, Mody AA, Su DM, Das HK. Intraperitoneal injection of JNK-specific inhibitor SP600125 inhibits the expression of presenilin-1 and Notch signaling in mouse brain without induction of apoptosis. Brain Res. 2012 Apr 11;1448:117-28. PubMed PMID: [22353755](http://www.ncbi.nlm.nih.gov/pubmed/22353755/); PubMed Central PMCID: [PMC3310381](http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3310381/).
3. Raut S, Heck A, Vishwanatha J, Sarkar P, Mody A, Luchowski R, Gryczynski Z, Gryczynski I. Fluorescent properties of antioxidant cysteine ABZ analogue. J Photochem Photobiol B. 2011 Mar 2;102(3):241-5. PubMed PMID: [21237671](http://www.ncbi.nlm.nih.gov/pubmed/21237671/).

### B. Positions and Honors

Positions and Employment

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| --- | --- |
| 2009 - | GRADUATE STUDENT, NTERI, Fort Worth, TX |

Other Experience and Professional Memberships

|  |  |
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| 2015 - | GAIR, SIGMA XI |

Honors

### C. Contribution to Science

### D. Research Support