# BIOGRAPHICAL SKETCH

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| NAME | POSITION TITLE |
|---|---|
| Viswam S. Nair | Instructor of Medicine |
| eRA COMMONS USER NAME (credential, e.g., agency login) | |
| Nair.Viswam | |

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)* | MM/YY | FIELD OF STUDY |
|---|---|---|---|
| The University of Pennsylvania | BA | 05/98 | Chemistry |
| The Ohio State University School of Medicine | MD | 06/04 | Medicine |
| Stanford University School of Medicine | MS | 06/11 | Epidemiology |

## A. Personal Statement

I am interested in better translating new non-invasive technologies and integrating existing ones to improve care for the early-stage lung cancer patient by applying the principles of epidemiology and computational biology. Specifically, my research focuses on integrating imaging and blood biomarker (*in vivo* and *in vitro)* diagnostics to improve clinical practice. Additionally, I am interested in understanding the current limitations of "omics" and biomarker studies in clinical practice, thereby facilitating improved diagnostic and prognostic tests for the lung cancer patient.

## B. Positions and Honors

### Positions

- Associate research chemist, Cell Pathways, Inc. 07/98–07/99.
- Associate research chemist, Schering-Plough Research Institute. 08/99–08/00.
- Roessler research fellow, Tzargounis Medical Research Facility, The Ohio State University. 01/01–12/01.
- Intern and resident, Internal Medicine, Santa Clara Valley Medical Center. 06/04–06/07.
- Fellow in Pulmonary and Critical Care Medicine, Stanford University Medical Center. 07/07–07/10.
- Chief, Pulmonary & Critical Care Medicine Fellowship, Stanford University Medical Center. 04/09–04/10.
- Post-doctoral research fellow, Stanford University School of Medicine. 07/10–07/12.
- Instructor of Medicine, Stanford University School of Medicine. 08/12–present.

### Honors

- Cum Laude with distinction in chemistry, University of Pennsylvania, 1998.
- Roessler Scholar, The Ohio State University School of Medicine & Public Health, 2001.
- Letter of commendation, The Ohio State University School of Medicine & Public Health, 2002.

## C. Selected Peer-reviewed Publications

Relevant to Current Application

1. **Nair VS**, Keu KV, Luttgen MS, Kolatkar A, Vasanawala M, et al. (2013) An observational study of circulating tumor cells and (18)F-FDG PET uptake in patients with treatment-naive non-small cell lung cancer. PLoS One 8: e67733.
2. Gu B, Burt BM, Merritt RE, Stephanie S, **Nair V**, et al. (2013) A dominant adenocarcinoma with multifocal ground glass lesions does not behave as advanced disease. Ann Thorac Surg 96: 411-418.

3. **Nair VS**, Maeda LS, Ioannidis JP (2012) Clinical outcome prediction by microRNAs in human cancer: a systematic review. J Natl Cancer Inst 104: 528-540.
4. **Nair VS**, Keu KV, Kuhn P, Gambhir SS (2012) Circulating tumour cells in early breast cancer. Lancet Oncol 13: e370-371; author reply e371.
5. **Nair VS**, Gevaert O, Davidzon G, Napel S, Graves EE, et al. (2012) Prognostic PET 18F-FDG uptake imaging features are associated with major oncogenomic alterations in patients with resected non-small cell lung cancer. Cancer Res 72: 3725-3734.
6. **Nair VS** (2011) Fluorodeoxyglucose-PET scanning in the diagnosis of pleural disease. Chest 139: 966-967; author reply 967.
7. **Nair VS**, Barnett PG, Ananth L, Gould MK (2010) PET scan 18F-fluorodeoxyglucose uptake and prognosis in patients with resected clinical stage IA non-small cell lung cancer. Chest 137: 1150-1156.
8. **Nair VS** (2010) Management of lung nodules detected by volume CT scanning. N Engl J Med 362: 757; author reply 758-759.
9. **Nair VS**, Krupitskaya Y, Gould MK (2009) Positron emission tomography 18F-fluorodeoxyglucose uptake and prognosis in patients with surgically treated, stage I non-small cell lung cancer: a systematic review. J Thorac Oncol 4: 1473-1479.

## D. Research Support

Current Research Support

L30 NIH NCI Loan Repayment Progam (Nair) 11/01/13–10/31/15 $70,000
"In vivo and in vitro diagnostics for assessing the lung nodule" This is a medical student loan repayment program awarded to junior investigators commited to a research career.

LUNGevity Foundation Career Development Award (Nair) 08/01/12–07/31/15 $300,000
"In vivo and in vitro diagnostics for assessing the lung nodule, LUNGevity Foundation Career Development Award" For this award we are studying the role of circulating tumor cells and microRNAs in blood for the early detection of non-small cell lung cancer Role: PI

Completed Research Support

Lung Cancer Research Foundation (Nair/Gambhir) 11/01/10–04/30/12
"Genome Wide Expression Differences for Lung Cancer with Increased 18F-fluorodeoxyglucose Uptake on PET Imaging." For this award we are defining gene profiles associated with early-stage NSCLC of varying FDG-PET uptake levels Role: Co-PI

5 T32 HL007948-04 (Rosen) 07/01/10–07/01/12
"Academic Research Training in Pulmonary Medicine." Provides salary support for Stanford Pulmonary fellows looking to pursue an academic career
Role: Trainee

CHEST foundation California Chapter Clinical Research Award (Nair/Hoang) 7/1/2009–7/1/2010
"Increased Positron Emission Tomography (PET) 18F-fluorodeoxyglucose (FDG) uptake, Gene expression and Outcome in Stage I Resected Lung Adenocarcinoma." For this award, we associated Warburg genes from the glycolysis pathway with NSCLC samples and FDG- PET.
Role: PI