

## BIOMARKER ASSAY SCIENTIST (CONSULTANT)

### Accomplishments

- Ph.D.Li>
- thesis was carried out at German Cancer Research Center (DKFZ), Germany's largest biomedical research institute.Li>
- Leadership: Guided 2 newly joined Ph.Li>
- D.Li>
- students and taught advance Immunology.Li>

### Professional Summary

Meticulous biomarker Scientist, excellent at juggling multiple tasks and working under pressure. Clinical Research experience includes method development and validation.

Motivated scientist with broad experience in Immunological assay development using flowcytometry OR ELISA (direct ELISA, Indirect ELISA, Sandwich ELISA and Competitive ELISA)

### Skills

- Data managementLi>
- Team leadershipLi>
- Self-motivatedLi>
- Process implementationLi>
- Client assessment and analysisLi>
- Risk management processes and analysisLi>
- Budgeting and financeLi>
- Powerful negotiatorLi>
- Extremely organizedLi>

### Work History

biomarker Assay Scientist (Consultant) , 02/2016 to Current  
Beaumont Hospitals â€“ Dearborn Heights , MI

- Pre-Validation, Validation and Cross- Validation of the Immunophenotyping Assay using whole blood for use in Clinical Trials (Phase IA/IB) under GLP/GCP compliant.Li>
- Managing the three BD FACS Canto instruments, training the biomarker Scientist on various biomarker Assay, i.e.Li>
- T-Cell Panel (T-Cell Activation/T-Cell Exhaustion/T-cell Proliferation, Treg Assay, TH subset assay), TBNK, B-Cell Panel, DCs Subset Assay, ILC2 and Eosinophil and Basophil Assay, Monocytes and Neutrophil Assay).Li>
- Submitting and QC/QA the various biomarker Assay Data (14-34 reportable) in LIMS.Li>
- Managing the team of biomarker Scientist and working closely with Trial Operation in setting up logistics, tracking sample, performing data analysis and data transfer for statistical analyses.Li>
- Defining the pharmacodynamics markers related the mechanism of action of the drug in clinical development.Li>
- Work closely with clinical study team and implementing clinical biomarker into clinical trials and providing translational medicine solution to project needs.Li>

Research Scientist , 02/2009 to 02/2015

Bristol Myers Squibb â€“ Fairfax , VA

Associate Research Scientist , 01/2005 to 01/2008

Bristol Myers Squibb â€“ Fort Lauderdale

- Planned and executed the project: Investigated the role of Golgi matrix proteins in vesicular transport model and Golgi structural organization using various overexpressing tagged recombinant protein such GRASP55, Golgin-45, Tankyrase.Li>
- Performed siRNA/shRNA-mediated gene editing, designed 24 site-directed mutagenesis constructs for single gene via alanine scanning.Li>
- Coordinated the project independently.Li>
- Managed team of up to 5 people for in-frame cloning, primer walk sequencing, and protein expression in mammalian cells and E.Li> coli.Li>
- Reviewed manuscripts for journals: PLoS One, J Immunology, Biochemistry insights.Li>
- Specific achievements and contributions include: Identified the rare protein interacting partner that was essential for Golgi matrix protein regulation using yeast two-hybrid system, GST pull-down assay and co-Immunoprecipitation.Li>
- Demonstrated the functional role of the uncharacterized Golgi-tether protein on the cellular organization of the Golgi complex using RNAi (siRNA/shRNA) mediated gene silencing and by overexpressing its functional domain with western blot and IP.Li>
- Designed and executed the strategy to connect the functional link of complex protein network by GST-pull down, Immunoprecipitation and by site-directed mutagenesis as molecular tools.Li>

Associate Research Scientist , 01/2009 to 02/2011

Yale University â€“ City , STATE

- Planned and executed the project: Investigated the role of Golgi matrix proteins in vesicular transport model and Golgi structural organization using various overexpressing tagged recombinant protein such GRASP55, Golgin-45, Tankyrase.Li>
- Performed siRNA/shRNA-mediated gene editing, designed 24 site-directed mutagenesis constructs for single gene via alanine scanning.Li>
- Coordinated the project independently.Li>

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- Designed and executed the strategy to connect the functional link of complex protein network by GST-pull down, Immunoprecipitation and by site-directed mutagenesis as molecular tools.

#### Education

Ph.D : Immunology , 2005

German Cancer Research Center - City

Immunology

#### Publications

Iris K. Madera-Salcedo, Luca Danelli, Neeraj Tiwari et al: Tomosyn-1 is upregulated by IgE and functions as a PKC\*-regulated fusion clamp in mast cell degranulation (Submitted in Science Signaling) Neeraj Tiwari, Xihua Yue, et al: Golgin45-Syntaxin5 interaction inhibits SNARE-mediated membrane fusion between adjacent Golgi cisternae (Submitted in Nature Communications) Feng Li, Neeraj Tiwari, James Rothman and Frederic Pincet: Kinetic barriers to SNAREpin assembly in the regulation of membrane docking/priming and fusion. PNAS. 2016: 113 10536-10541 Neeraj Tiwari, Intaek Lee, Myun Hwa Dunlop, Morven Graham, Xinran Liu and James E. Rothman: Membrane adhesion dictates Golgi stacking and cisternal morphology. PNAS. 2014: 111-1849-54 Neeraj Tiwari, Cheng-Chun Wang et al: VAMP-8 segregates mast cell-preformed mediator exocytosis from cytokine trafficking pathways. Blood. 2008: 111, 3665-74 Neeraj Tiwari, Natalio Garbi, et al: A TAP-independent vacuolar pathway for the MHC class I-mediated presentation of endogenous transmembrane proteins. J Immunol. 2007: 178, 7932-42 Cristiana Brochetta, Francesca Vita, Neeraj Tiwari, et al Involvement of Munc18 isoforms in the regulation of granule exocytosis in neutrophils. Biochim Biophys Acta. 2008: 1783, 1781-91

#### Skills

Biochemistry, biology, c, clinical development, clinical study, clinical trials, clones, data analysis, data transfer, editing, frame, functional, GCP, GLP, Immunology, IP, LIMS, logistics, Managing, molecular biology, network, protocols, QA, research, scanning, strategy, Validation