## **EDUCATION**

•	M.Sc. Cardiovascular and Respiratory Sciences University of Calgary, Canada	2011 – 2016
•	M.Sc. Molecular Medicine University of Sheffield, UK	2007 – 2008
•	B.Sc. Biochemistry (Special) Vocational Biotechnology Gujarat University, India	2004 – 2007

### RESEARCH LABORATORY EXPERIENCE

Research Technician 2017 – 2018 Microbiology, Immunology and Infectious Diseases University of Calgary, Canada

- Purification of proteins from mammalian CHO cells using FPLC chromatography techniques
- Cigarette smoke exposure of mice through Teague Cigarette Smoke Exposure System
- Peptide-MHC nanoparticle treatment of C57BI/6 mice with IV tail injections
- Analyzed inflammation in lungs airways through histological staining and microscopy

Master of Science
Cardiovascular and Respiratory Sciences
University of Calgary, Canada

2011 – 2016

## Thesis: Investigation into the Bronchoprotective and Anti-inflammatory Properties of RGS2

- Investigated the effect of acute exposure of house dust mite allergen and LPS bacterial pathogen on wildtype and knockout C57BL/6 mice models
- Conducted intra-nasal, intra-tracheal challenges, IP and IM injections on mice
- Examined lung function through flexiVent and analyzed inflammation in airways
- Performed RNA extraction, cDNA preparation, real-time PCR, western blotting and ELISA on cultured cells, cellular extracts and mouse lung tissue
- Utilized human bronchial epithelial cells and airway smooth muscle cells to study drug efficacy
- Organized and updated the animal protocol for review by University Animal Care Committee

Laboratory Technician Institute for Cancer Studies University of Sheffield, UK 2009 – 2010

- Conducted agarose gel, acrylamide gel and SDS-PAGE electrophoresis
- Extracted DNA from human melanoma samples
- Analyses breast cancer and colorectal cancer SNPs using TaqMan RT-PCR
- Maintenance of laboratory area and equipment, keeping count of laboratory stock and samples
- Provided support to lab members during experiments and with data analysis

Master of Science + Research Technician Institute for Cancer Studies University of Sheffield, UK 2007 – 2009

### Thesis: Determination of the substrate specificity of human pif-1 helicase

- Generated Pif mutant and other helicase proteins through cloning and production of recombinant DNA and plasmids in E. coli
- Extracted and purified proteins through HPLC chromatography techniques
- Performed <sup>32</sup>P radio-labeling of oligonucleotides used in gel-shift binding, helicase and ATPase assays
- Maintenance of laboratory area and equipment, ordering of samples and reagents

## **PUBLICATIONS**

- George T, Chakraborty M, Giembycz MA, Newton R. (2018) A bronchoprotective role for Rgs2 in a murine model of lipopolysaccharide-induced airways inflammation. Allergy, Asthma and Clinical Immunology doi:10.1186/s13223-018-0266-5
- **George T,** Bell M, Chakraborty M, Siderovski DP, Giembycz MA, Newton R. **(2017)** Protective roles for RGS2 in a mouse model of house dust mite-induced airway inflammation. *PLOS One* doi: 10.1371/journal.pone.0170269
- BinMahfouz H, Yan D, Borthakur B, **George T**, Giembycz MA, Newton R. **(2015)** Superiority of combined PDE3/PDE4 inhibition over PDE4 inhibition alone on glucocorticoid- and long-acting β2-adrenoceptor agonist-induced gene expression in human airway epithelial cells. *Molecular Pharmacology* 87(1):64-76
- Holden NS, George T, Rider CF, Chandrasekhar A, Shah S, Kaur M, Johnson M, Siderovski DP, Leigh R, Giembycz MA, Newton R. (2014) Induction of regulator of G-protein signaling 2 expression by long-acting β2-adrenoceptor agonists and glucocorticoids in human airway epithelial cells. *Journal of Pharmacology and Experimental Therapeutics* 348(1), 12-24
- **George T**, Wen Q, Griffiths R, Ganesh A, Meuth M, Sanders C. **(2009)** Human Pif1 helicase unwinds synthetic DNA structures resembling stalled DNA replication forks. *Nucleic Acids Research* 37, 6491-502

#### **FELLOWSHIPS AND AWARDS**

• Alberta Lung Association Award (2012) – For outstanding research in field of lung health and biology.

### PROFESSIONAL DEVELOPMENT COURSES

Principles of Biomedical Imaging
 University of Queensland, Australia

2020

Design and Interpretation of Clinical Trials
 John Hopkins University, USA

2014

• Bioinformatics Certificate
St. Xavier's College, Gujarat University, India

2006 - 2007

## **LEADERSHIP / VOLUNTEER EXPERIENCE**

Crisis Response Team
Calgary Comic and Entertainment Expo, Calgary, Canada

2014

- Assisted in logistics and organization of the crowds into proper queues.
- Co-ordinated with other teams during check-in procedures at entrances and exits.
- Arbitrated and resolved any crisis occurring during the events.

# Production and Marketing (Vocational Biotechnology Project) Xplant, St. Xavier's College, Ahmedabad, India

2006 – 2007

- Managed the Marketing department of the university-based private company 'Xplant'.
- Produced and supervised the sale of biotechnology products to schools, colleges and companies.
- Organized presentations and sales drives at schools; conducted meetings with personnel of other organizations; Reviewed and reorganized the production and sale plans based on customer reviews.