

## **DR. JONAH (UN) GEORGE WILLIAM PHD**

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### **Research Interests**

Cancers–Solid tumors and hematological malignancies, Epigenomics and Epigenetic Research, Non–Coding RNAs, Drug resistance, Cardiovascular diseases and Stem cell research.

### **Experiences**

**Post doctoral researcher** at Toronto General Hospital. (University Health Network), Toronto, Canada. (Aug 2018–Aug 2019)

**Post doctoral researcher fellow**, Linköping University, Linköping, Sweden.  
(Jun 2015 to Sept 2016)

**Guest Researcher Fellow** at Genomic lab, Madurai Kamaraj University, Madurai, India. (Nov 2013–Nov–2014)

**Research fellow**, University of Rome, La Sapienza, Latina, Italy,  
(Nov 2011– Oct 2013).

### **Educations**

**Doctor of Philosophy** (PhD awarded on 15/07/ 2014,) **cum laude**, Ruprecht Karl–University of Heidelberg/ DKFZ, Heidelberg, Germany.  
(Nov 2006–Nov 2009).

**Bachelors and Masters (Bio–Chemistry)**, Madras University, Tamil Nadu, India.  
(Jun 1996– Oct 2001)

## Research expertise

Sanger Sequence, Pyro-sequence, RNA sequence-Hiseq, Amplicon sequence-MiSeq, Hi-Plex, Cell culture, DNA & RNA Isolation, Protein extraction & quantification, Cloning, Transfections, Cell proliferation assays, Western blot, PCR, Electroporation, Real time PCR, qRT-PCR (Applied Bio-system & Stratagene) Dual Luciferase Assay, siRNA knockdown & CRISPR Cas9 system, Site Directed Mutagenesis, EMSA, Matri-gel invasion & cell migration assay, Chip and Tissue ChIP, Chorioallantoic membrane Assay (CAM), Micro-dissection, Immunohistochemistry (Giemsa, Benzidine and DAPI staining etc) & Immuno-florescence, Modern microscopic Techniques, Comet Assay, Piperidine Assay and ELISA.

## Computational and bioinformatics skills

Sequence retrieval, sequence alignment, Deletion constructs, and Primer designing. GEO datasets analysis, Gene Set Enrichment Analysis (GSEA), Epigenomic databases, miRdatabases, UCSC, Transfac, Site-directed mutagenesis tools, ENCODE, Mutational variation databases, and ENDNOTE. Proficient in Word Processing and Comfortable in both Windows and Linux environment.

## Conference, poster presentation & Course work

- ✚ Abstract accepted for 61st Annual Meeting and Exposition (December 7-10, 2019) in Orlando, FL, Title: **Overexpression of Mir-21-5p Induces Apoptosis and Cell Cycle Arrest By Down-Regulating SKP2 and Overcomes Bortezomib Resistance in Multiple Myeloma”** by American Society of Hematology.
- ✚ Indio-German conference, Non-coding RNAs in Cancers, at **German Cancer research Center (DKFZ)**, Heidelberg (2007).
- ✚ Seminar and meeting with faculties, Department of Biological regulation, **Weizmann Institute of Science**, Rehovot, Israel, invited by Prof. Yosef Yarden. (Jan 2015)

- ✚ **FACS training course** at Centre for Stem Cell Research, Christian Medical College (a unit of inStem, Bengaluru) Christian Medical College Campus Bagayam Vellore 632002, Tamil Nadu, India (2018).
- ✚ During graduates, I presented my project entitled that **“Screening and diagnosis of sickle cell anemia and thalassemia”** at Christian Medical College, Vellore, India.

## Publications

[https://www.ncbi.nlm.nih.gov/pubmed/?term=George-William%20JN%5BAuthor%5D&cauthor=true&cauthor\\_uid=20815812](https://www.ncbi.nlm.nih.gov/pubmed/?term=George-William%20JN%5BAuthor%5D&cauthor=true&cauthor_uid=20815812)  
<https://www.ncbi.nlm.nih.gov/pubmed/27067666>

## References

1. **Prof. Dr. med. Heike Allgayer, MD, PhD** ( My PhD mentor) ,Head, Department of Experimental Surgery/Molecular Oncology of Solid Tumors, German Cancer Research Center (DKFZ–Heidelberg) Medical Faculty Mannheim. Ruprecht Karl University of Heidelberg, Germany. Tel.: 49–621–383–2226/ Fax: 49–621–383–3809/–1938. E-mail: [heike.allgayer@medma.uni-heidelberg.de](mailto:heike.allgayer@medma.uni-heidelberg.de)
2. **Prof. Dr. Hong Chang**, Division of Molecular and Cellular Biology, Toronto General Research Institute, Department of Laboratory Medicine and Pathobiology, University of Toronto, Toronto, Ontario, Canada. Department of Laboratory Hematology and Laboratory Medicine Program, University Health Network, Toronto, Ontario, Canada. [Hong.Chang@uhn.on.ca](mailto:Hong.Chang@uhn.on.ca) Phone: 416–340–4858 Fax: 416–340–5543.
3. **Prof. R. V. Shaji**. Gene Regulation Lab, Centre for Stem Cell Research, Christian Medical College (a unit of inStem, Bengaluru) Christian Medical College Campus Bagayam Vellore 632002, Tamil Nadu, India. Office: +91416307 5114, Lab: +91416307–5113, Fax: +91416307–510 .Email: [rvshaji@cmcvellore.ac.in](mailto:rvshaji@cmcvellore.ac.in)

