

Dr. HEZLIN MARZOOK K

Post Doctoral Researcher

Research Experience

- May2021-Oct 2021 **Post Doctoral Research Assistant**
Department of Biochemistry
College of Medicine and Health Sciences
UAE University, UAE
Studied the mechanistic insights of Parkin protein and its role in Parkinson Disease
- Oversee day to day functioning of laboratory
 - Handling cell lines, mice and drosophila
 - Experimental hands on Cell culture, Western blotting, Immunocytochemistry, Plasmid isolation, Transfection
- Jan2013-Dec2016 **Senior Research Fellow (CSIR-UGC, India)**
Cancer Research Program
Rajiv Gandhi Centre for Biotechnology, India
Studied the role of MTA1 (an oncogene) under Hypoxia
- Handling cancer cell lines, Transfections, Western blotting, Immunocytochemistry, Immunoprecipitation, FACS, Cell Line based Assays
 - Training undergraduates
 - Technical Communications
- Jan2011-Dec2012 **Junior Research Fellow (CSIR-UGC, India)**
Cancer Research Program
Rajiv Gandhi Centre for Biotechnology, India
Studied the role of MTA1 (an oncogene) as a coregulator protein
- Handling cancer cell lines, transfections, Western blotting, Immunocytochemistry, Immunoprecipitation, Drug treatment and Cell death assays.
 - Handling chemicals, placing laboratory orders and maintaining log book

Address:
319,
Al Mansoor Building,
New Muweilah,
Sharjah

Contact:
00971-524218076

Email:
hezlinmarzook@gmail.com

LinkedIn:
www.linkedin.com/in/hezlinmarzook

Language Proficiency
English :Proficient
Hindi :Fluent
Malayalam: Native fluency

Education

2012-2019: **PhD** (Biotechnology), University of Kerala, India
2007-2009: **MSc** (Biotechnology), Mahatma Gandhi University, India
2004-2007: **BSc** (Zoology), Mahatma Gandhi University, India

Certification/Academic honours

- **Quantitative Methods for Biology, QMBI** (ID:7e158be8d9b748ac8a83540113a046cb) March 22, 2021 (A course of study offered by HarvardX)
- **CSIR Senior Research Fellowship 2013, Life Sciences**, Council of Science and Industrial Research, India
- **CSIR Junior Research Fellowship 2009, Life Sciences**, Council of Science and Industrial Research, India
- **KSCSTE Research Fellowship 2009, Biotechnology**, Kerala State Council of Science Technology and Education, India

LIST OF PUBLICATIONS

Journal articles/Book chapters:

1. Hezlin Marzook, S. Deivendran, Bijesh George, Reshmi G, T.R. Santhosh kumar, Rakesh Kumar and M. Radhakrishna Pillai. Cytoplasmic translocation of MTA1 coregulator promotes de-repression of *SGK1* transcription in hypoxic cancer cells. *Oncogene* 15. doi:10.1038/onc.2017.19. (2017)
2. S. Deivendran, Hezlin Marzook, T. R. Santhoshkumar, Rakesh Kumar and M. Radhakrishna Pillai. Metastasis-associated protein 1 is an upstream regulator of *DNMT3a* and stimulator of insulin-growth factor binding protein-3 in breast cancer. *Scientific Reports* 7, 44225; doi:10.1038/srep44225 (2017)
3. Marzook H*, Deivendran S*, Kumar R and Pillai MR. Role of MTA1 in head and neck cancers *Cancer Metastasis Reviews* 33(4):953-64. doi: 10.1007/s10555-014-9521-5 (2014) (*Equal contribution)
4. Deivendran S*, Marzook H*, Radhakrishna Pillai M. The role of inflammation in cervical cancer. *Advances in Experimental Medicine and Biology*. 816:377-99. doi:10.1007/978-3-0348-0837-8_15 (2014) (*Equal contribution) (Book chapter)

Conference Papers: (Published)

1. Hezlin Marzook, S. Deivendran, T.R. Santhosh Kumar, Rakesh Kumar* and M. Radhakrishna Pillai. *Decoding the regulatory functions of MTA1, a stress responsive protein under hypoxic conditions. *J Carcinog.* 2015; 14(Suppl1):S21-S38
2. Deivendran S, Hezlin Marzook T. R. Santhosh Kumar, Rakesh Kumar and M. Radhakrishna Pillai. Metastatic Tumor Antigen 1, coregulator transcriptionally represses DNAmethyltransferase3a in cancer cells. *J Carcinog.* 2015; 14(Suppl1):S21-S38

Conference Papers: (Presented)

1. Hezlin Marzook, S. Deivendran, T.R. Santhosh Kumar, Rakesh Kumar & M. Radhakrishna Pillai. "Loss of MTA1 regulation on SGK1 during hypoxia as a potential mechanism of cell survival in breast cancer cells", 39th All India Cell Biology Conference, December 06-08 2015, Trivandrum
2. Deivendran S, Hezlin Marzook, T.R. Santhosh Kumar, Rakesh Kumar and M. Radhakrishna Pillai. "Metastatic Tumor Antigen-1 (MTA1) modulates DNA methyltransferase (DNMT3a) expression and influences target genes", 39th All India Cell Biology Conference, December 06-08-2015, Trivandrum
3. Hezlin Marzook, Deivendran S, T.R. Santhosh Kumar, Rakesh Kumar and M. Radhakrishna Pillai. Decoding the regulatory functions of MTA1, a stress responsive protein under hypoxic conditions; Carcinogenesis 2015, 11-13 February 2015, ACTREC, Mumbai

4. Hezlin Marzook, T.R.SanthoshKumar, RakeshKumar and M.RadhakrishnaPillai; Revelation of physiological stress response of Metastasis Tumor Antigen 1(MTA1) in breast cancer cells; 33rd Annual convention of Indian Association for Cancer Research IACR 2014,13-15 February 2014, Trivandrum(Best Poster Award by Biochemical Journal)
5. Hezlin Marzook, Li,D.Q., T.R. SanthoshKumar, Rakesh Kumar and M.RadhakrishnaPillai; Transcriptional Regulation by Metastasis Tumor Antigen1 on an emerging E3 Ligase Rnf144A; UAE Cancer Congress 2013, 3-5 October 2013, Dubai

ACADEMIC TRAININGS

1. Wellcome Trust/ DBT India Alliance Science Communication workshop, Hyderabad March 2015
2. Indo-US Symposium on Metabolomics Rajiv Gandhi Centre for Biotechnology March 2014
3. Animal Handling by Animal Research Facility at Rajiv Gandhi Centre for Biotechnology May 2013
4. Academic project in Post-Graduation: Plumbagin as an Antitumor and Chemosensitizing Agent in Human Breast Cancer Cell Line. Project Supervisor: Dr. G. Srinivas, Scientist D, Department of Biochemistry, Sree Chitra Tirunal Institute for Medical Science and Technology.Trivandrum, Feb-June2009

REFERENCES

1. Prof. Rakesh Kumar, Ph.D.
Distinguished Professor,
National Chair in Cancer Research,
Rajiv Gandhi Centre for Biotechnology
Trivandrum 695014 Kerala, INDIA.
rakeshkumar@rgcb.res.in

Adjunct Professor - Medicine, Hematology/Oncology
Rutgers New Jersey Medical School, Newark, USA
rk874@scarletmail.rutgers.edu

Visiting Professor - Human and Molecular Genetics
Virginia Commonwealth University Medical Center, Richmond, USA
Rakesh.Kumar@vcuhealth.org
2. Prof.M.RadhakrishnaPillai
FRCPATH,PhD,FASc,FNASc,FAMS,FNA
Ex-Director-RajivGandhiCentreforBiotechnology,
Thycaud Post, Poojappura,
Thiruvananthapuram-695014, Kerala,India
mrpillai@gmail.com
+91-9995199993