

Rakhee K. Ramakrishnan



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Online Portfolios

LinkedIn : <https://ae.linkedin.com/pub/rakhee-k-ramakrishnan/52/241/9b5>
Instagram : @the_sciartist_chronicles

Education

- **Ph.D. in Molecular Medicine and Translational Research**
University of Sharjah, Sharjah, United Arab Emirates / 2016 – 2020
CGPA – 4/4
- **Doktorin der Humanbiologie (Dr. rer. hum. biol.)**
Universität zu Lübeck, Lübeck, Germany / 2016-2020
Grade – 1.5 (Magna cum laude)
- **Master of Biotechnology (Advanced)**
The University of Queensland, Brisbane, Australia / 2012 – 2014
CGPA – 6.94/7
- **Bachelor of Biotechnology and Biochemical Engineering**
University of Kerala, Kerala, India / 2006 – 2010
CGPA – 8.42/10
- **All India Senior School Certificate Examination (AISSCE)**
IES Public School, Kerala, India / 2006
Aggregate - 88.4%
- **All India Secondary School Examination (AISSE)**
Sharjah Indian School, Sharjah, United Arab Emirates / 2004
Aggregate - 89.6%

Scholarships and Awards

- **CHEST Foundation Diversity Travel Grant 2019**, CHEST Foundation, United States of America
- **University of Sharjah PhD Scholarship 2016**, University of Sharjah, United Arab Emirates
- **John Kapeleris Medal for Biotechnology 2014**, The University of Queensland, Australia
- **Dean's Commendation for Academic Excellence** (Semester 1, 2014 and Semester 1, 2013), The University of Queensland, Australia
- **Dean's Commendation for High Achievement** (Semester 2, 2012), The University of Queensland, Australia
- **UQ Summer Research Scholarship 2012**, The University of Queensland, Australia
- **School of Chemistry and Molecular Biosciences Indian Scholarship 2012**, The University of Queensland, Australia
- **University of Kerala Second Rank Holder** in Bachelor of Biotechnology and Biochemical Engineering, 2010, University of Kerala, India

Work Experience

- ❖ **Sharjah Institute for Medical Research, Sharjah, United Arab Emirates [2016-Present]**
 - Designation : Postdoctoral Research Fellow, Tissue Injury & Repair Group [March, 2021-Present]
PhD Fellow and Graduate Research Assistant, Asthma Research Group [September, 2016 – August, 2020]
- ❖ **Institute of Nutrition Medicine, University of Lübeck, Lübeck, Germany [2018]**
 - Designation : Exchange Student
- ❖ **Dawha School, Sharjah, United Arab Emirates [2016]**
 - Designation : Science Teacher (American Curriculum)
- ❖ **Mater Research, Translational Research Institute, Brisbane, Australia [2013 – 2015]**
 - Designation : Research Assistant, Stem Cells and Cancer Group [February – April, 2015]
Research Assistant, Inflammation and Cancer Therapeutics Group [June – December, 2014]
Masters Research Student, Inflammation and Cancer Therapeutics Group [July, 2013 – June, 2014]
- ❖ **Australian Institute for Bioengineering and Nanotechnology, Brisbane, Australia [2012 – 2013]**
 - Designation : Summer Research Scholar, Delivery of Drugs and Genes Group
- ❖ **Infosys Limited, Mysore, India [2010 – 2012]**
 - Designation : Systems Engineer, Education & Research Department

Publication Profile

1. Bajbouj K, Hachim MY, **Ramakrishnan RK**, Fazel H, Mustafa J, Alzaghari S, Eladl M, Shafarin J, Olivenstein R, Hamd Q. (2021) IL-13 augments Histone Demethylase JMJD2B/KDM4B expression levels, activity and nuclear translocation in airway fibroblasts in asthma. *Journal of Immunology Research*. (Accepted)
2. Hachim MY, Elemam NM, **Ramakrishnan RK**, Bajbouj K, Olivenstein R, Hachim I, Al Heialy S, Hamid Q, Busch H, Hamoudi R. (2021) *Frontiers Cell and Developmental Biology*. (Accepted)
3. Bajbouj K, **Ramakrishnan RK**, Hamid Q. (2021) Role of matrix metalloproteinases in angiogenesis and its implications in asthma. *Journal of Immunology Research*. DOI: 10.1155/2021/6645072
4. Mdkhana B, Sharif-Askari NS, **Ramakrishnan RK**, Goel S, Hamid Q, Halwani R. (2021) Nucleic acid-sensing pathways during SARS-CoV-2 infection: expectations versus reality. *Journal of Inflammation Research*. DOI: 10.2147/JIR.S277716
5. **Ramakrishnan RK**, Bajbouj K, Hachim MY, Mogas AK, Mahboub B, Olivenstein R, Hamoudi R, Halwani R, Hamid Q. (2020) Enhanced mitophagy in bronchial fibroblasts from severe asthmatic patients. *PLOS ONE*. DOI: 10.1371/journal.pone.0242695
6. Hachim MY, Elemam NM, **Ramakrishnan RK**, Salameh L, Olivenstein R, Hachim I, Venkatachalam T, Mahboub B, Al Heialy S, Halwani R, Hamid Q, Hamoudi R. (2020) Blood and Salivary Amphiregulin levels as biomarkers for Asthma. *Frontiers in Medicine*. DOI: 10.3389/fmed.2020.561866
7. Al Bataineh MT, Hamoudi RA, Dash NR, **Ramakrishnan RK**, Almasalmeh MA, Sharif HA, Al-Hajjaj MS, Hamid Q. (2020) Altered respiratory microbiota composition and functionality associated with asthma early in life. *BMC Infectious Diseases*. DOI: 10.1186/s12879-020-05427-3
8. Al Heialy S, Gaudet M, **Ramakrishnan RK**, Mogas A, Salameh L, Mahboub B, Hamid Q. (2020) Contribution of IL-17 in Steroid Hyporesponsiveness in Obese Asthmatics Through Dysregulation of Glucocorticoid Receptors α and β . *Frontiers in Immunology*. DOI: 10.3389/fimmu.2020.01724
9. **Ramakrishnan RK**, Bajbouj K, Al Heialy S, Mahboub B, Ansari AW, Hachim IY, Rawat S, Salameh L, Hachim MY, Olivenstein R, Halwani R, Hamoudi R, Hamid Q. (2020) IL-17 induced autophagy

- regulates mitochondrial dysfunction and fibrosis in severe asthmatic bronchial fibroblasts. *Frontiers in Immunology*. DOI: 10.3389/fimmu.2020.01002
10. Hachim MY, Elemam NM, **Ramakrishnan RK**, Hachim IY, Salameh L, Mahboub B, Al Heialy S, Halwani R, Hamoudi R, Hamid Q. (2019) Confounding Patient Factors Affecting the Proper Interpretation of the Periostin Level as a Biomarker in Asthma Development. *Journal of Asthma and Allergy*. DOI: 10.2147/JAA.S230892
 11. **Ramakrishnan RK**, Al Heialy S, Hamid Q. (2019) Role of IL-17 in asthma pathogenesis and its implications for the clinic. *Expert Review of Respiratory Medicine*. DOI: 10.1080/17476348.2019.1666002
 12. **Ramakrishnan RK**, Mahboub B, Hamid Q. (2018) Asthma-chronic obstructive pulmonary disease overlap: A distinct pathophysiological and clinical entity. In: *Asthma, COPD, and Overlap: A Case-Based Overview of Similarities and Differences*, 1st Edition, edited by Bernstein J, Boulet LP, Wechsler M. Boca Raton: CRC Press. Chapter 4
 13. Poon AH, Choy DF, Chouiali F, **Ramakrishnan RK**, Mahboub B, Audusseau S, Mogas A, Harris JM, Arron JR, Laprise C, Hamid Q. (2017) Increased Autophagy-Related 5 Gene Expression is Associated with Collagen Expression in the Airways of Refractory Asthmatics. *Frontiers in Immunology*. DOI: 10.3389/fimmu.2017.00355.

Project and Presentation Profile

PhD Projects

- **Role of mitochondria in the development of airway remodelling in severe asthma** / September, 2017 – August, 2020

Master Projects

- **Effects of statins on the ovarian tumour microenvironment** / July, 2013 – June, 2014
- **Analysis of mouse Neogenin using bioinformatic tools** / April – May, 2013
- **Role of Caspase-1 in IgG immune response to nanopatch delivery of influenza vaccine** / November, 2012 – March, 2013

Bachelor Projects

- **DNA barcoding of selected species of *Zingiberaceae* using rbcL region** / January – February, 2010
- **Fermentation Technology for Mass Production of Biofertilizers** / 2009

Oral Presentations

- R. K. Ramakrishnan, B. Mahboub, R. Hamoudi, Q. Hamid. **Overexpression of Bcl10 in severe asthmatic bronchial fibroblasts**. CHEST Congress 2019, Bangkok, Thailand / 2019
- R. K. Ramakrishnan, M. Y. Hachim, B. Mahboub, R. Hamoudi, Q. Hamid. **Differential regulation of autophagy in bronchial fibroblasts from severe asthma patients**. UAE Graduate Students Research Conference, Sharjah, United Arab Emirates / 2018
- R. K. Ramakrishnan, A. Purdon, D. Munster, J. I. Coward. **The effects of statins on the ovarian tumour microenvironment**. Brisbane Gynaecological Cancer Research Symposium, Brisbane, Australia / 2014
- R. K. Ramakrishnan. **Arzerra (Ofatumumab)**. The School of Chemistry and Molecular Biosciences, The University of Queensland, Brisbane, Australia / 2013
- R. K. Ramakrishnan. **Western Blotting**. The School of Chemistry and Molecular Biosciences, The University of Queensland, Brisbane, Australia / 2012
- R. K. Ramakrishnan. **Quorum sensing**. Sree Chitra Thirunal College of Engineering, Kerala, India / 2009
- R. K. Ramakrishnan, R. Vattukalathil. **Microencapsulation**. Sree Chitra Thirunal College of Engineering, Kerala, India / 2008
- R. K. Ramakrishnan, R. Vattukalathil. **Tissue Engineering**. Sree Chitra Thirunal College of Engineering, Kerala, India / 2007

Poster Presentations

- R. K. Ramakrishnan. 1st Forum for Women in Research – “Empowering Women in Scientific Research: Challenges, Opportunities & Recommendations”. University of Sharjah, Sharjah, United Arab Emirates / 2020
- R. K. Ramakrishnan, B. Mahboub, R. Hamoudi, Q. Hamid. **Overexpression of Bcl10 in severe asthmatic bronchial fibroblasts**. CHEST Annual Meeting 2019, New Orleans, USA / 2019
- R. K. Ramakrishnan, B. Mahboub, R. Hamoudi, Q. Hamid. **Dysregulation of autophagy in bronchial fibroblasts from severe asthma patients**. CHEST Congress 2019, Bangkok, Thailand / 2019
- R. K. Ramakrishnan, B. Mahboub, R. Hamoudi, Q. Hamid. **Overexpression of Bcl10 in severe asthmatic bronchial fibroblasts**. CHEST Congress 2019, Bangkok, Thailand / 2019
- R. K. Ramakrishnan, B. Mahboub, Q. Hamid. **Dysregulation of mitophagy in bronchial fibroblasts from severe asthma patients**. Student Research Day, University of Sharjah, Sharjah, United Arab Emirates / 2019 – Awarded **Best Poster Presentation**
- R. K. Ramakrishnan, D. Munster, J. I. Coward. **The effects of statins on the interaction between ovarian cancer cells and tumour-associated macrophages**. 9th Annual SCMB Research Students Symposium, Brisbane, Australia / 2013

Voluntary Activities

- UAE Ministry of Education National Ambassadors Program – ESTEDAD-UoS academic volunteering program / 2020
With a motto of “Leading the future through our students”, introduced high school students to medical research by handling the “Cancer Drug Discovery” program.

References

- Prof. Qutayba Hamid
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