

Dr. ALTHAF HUSSAIN SHAIK,

Assistant Professor

Central Laboratory AA60, Building 5,
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Research Interest:

- Biochemistry
- Microbiology
- Animal Cell Culture
- Cardiovascular Diseases
- Molecular and Cellular Biology
- Phytotherapy and Green Nanotechnology

Current career experience:

- **Assistant Professor** in Central Laboratory, Department of Zoology, College of Science, **King Saud University** (*Quacquarelli Symonds (QS) World Top University Rank-227*), Riyadh, Saudi Arabia, September 2013 - Till now

Previous career experience:

- **Post-Doctoral Fellow** in Department of Biochemistry, **Chonbuk National University Medical School** (*QS World Top University Rank-501*), Jeonju, South Korea, October 2012 - September 2013

Academic Profile:

- **Ph.D, Biochemistry**, Sri Krishnadevaraya University, Anantapur-515003, A.P, India. 2012
- **M.Sc, Biochemistry**, Sri Krishnadevaraya University, Anantapur-515003, A.P, India. 2004
- **B.Sc, Microbiology**, Sri Krishnadevaraya University, Anantapur-515003, A.P, India. 2001

Awards/Fellowships:

- ❖ **UGC-RFSMS** (University Grants Commission-Research Fellowship in Science for Meritorious Students) prestigious fellowship awarded by U.G.C, New Delhi, INDIA
 - **UGC-JRF** (Junior Research Fellow) 2008-2010
 - **UGC-SRF** (Senior Research Fellow) 2010-2012

Research Experience: **10 Years**

Teaching Experience: **10 Years**

- Teaching and training practical for Post Graduates (M.Sc.) previous and final students in the Dept. of Biochemistry, S.K University, Anantapur-515003, A.P, India.(2007-2012)
- Worked as Lecturer for Graduates (B.Sc.) Biotechnology students in Sri Sai Degree College, S.K University, Anantapur-515001. A.P., India. (2004-2010)

Orcid ID: orcid.org/0000-0001-6389-9146

List of International Publications with Journal Citation Reports Thomson Reuters Impact Factor:

1. **Shaik Althaf Hussain*** (*Corresponding Author*), Kodidhela Lakshmi Devi, Mohammed Abdul Kareem, Shaik Nayab Rasool, Suliman Yousef Al Omar, Mohammad Altaf, Talal Abdulaziz Mohaya. *Terminalia pallida* Fruit Ethanolic Extract Ameliorates Lipids, Lipoproteins, Lipid Metabolism Marker Enzymes and Paraoxonase in Isoproterenol Administered Myocardial Infarcted Rats. **Saudi Journal of Biological Sciences 2017. Impact factor 2.564 Minor Review**
2. **Shaik Althaf Hussain*** (*Corresponding Author*), Mohammed Abdul Kareem, Shaik Nayab Rasool, Suliman Yousef Al Omar, Alwasel Saleh, Manal Abdulrahman Al-Fwuaire, Jayasimha Rayalu, Kodidhela Lakshmi Devi. Trace Elements Determination and Cardioprotection of *Terminalia pallida* Fruit Ethanolic Extract in Isoproterenol Induced Myocardial Infarcted Rats by ICP-MS. **Biological Trace Element Research 2017- DOI: 10.1007/s12011-017-1037-8. Impact factor 2.399**
3. Gadamsetty Saayi Krushna, Shivaranjani, Umamaheswari, Sreenivasulu, **Shaik Althaf Hussain***, Abdul Kareem, Damodara Reddy, Daoud Ali, Kiran Bharat, Venkateswara Swamy, Lakshmi Devi Kodidhela. *In vivo* and molecular docking studies using whole extract and phytochemicals of *Aegle marmelos* fruit protective effects against Isoproterenol-induced Myocardial infarction in rats. **Biomedicine & Pharmacotherapy 2017, 91, 880-889. Impact Factor 2.759**
4. James Milton, M. A. Haniffa, Ajaz Ali Bhat, **Shaik Althaf Hussain*** (*Corresponding Author*), Irfan Ahmad Rather. Ovarian development and histological observations of threatened dwarf snakehead fish, *Channa gachua* (Hamilton, 1822). **Saudi Journal of Biological Sciences 2017 - DOI.10.1016/j.sjbs.2017.03.011. Impact factor 2.564**
5. Divya Sahni, Daoud Ali, Ali Al-Amer, Neeraj Sood, D.K Chaudhary, Ashish Tiwari, **S. A. Hussain***. Isolation and identification of pathogenic bacteria from diseased freshwater fish *Catla Catla* (HAM.). **Fresenius Environmental Bulletin 2017, 26(1a), 1108-1115. Impact factor 0.425**
6. Daoud Ali, Huma Ali, Saud Alarifi, Ali Al-Amer, P. G. Kumar, Sudhir Kumar, Agha P. Masih, Saad Alkahtani, Abdullah A. Alkahtane and **S. A. Hussain***. Genotoxicity in the freshwater gastropod *Lymnaea luteola* L: assessment of cell type sensitivities to lead nitrate. **Chemistry and Ecology 2017, 33 (2). Impact factor 1.463**

7. Daoud Ali, Huma Ali, Saud Alarifi, Agha P Masih, S. Manohardas, **S. A. Hussain***. Eco-toxic efficacy of Nano-sized Magnesium oxide in freshwater snail *Radix leuteola* L. **Fresenius Environmental Bulletin 2016, 25 (4), 1234-1242. Impact factor 0.425**
8. Mohammed Abdul Kareem, G. Saayi Krushna, **Althaf hussain Shaik***, Prasad E. Maruthi and Lakshmi Devi Kodidhela. Protective effect of Nutmeg aqueous extract against experimentally induced hepatotoxicity and oxidative stress in rats. **Journal of Ayurveda and Integrative Medicine 2013, 4 (4), 216-23**
9. **Althaf Hussain Shaik***, S.N. Rasool, A. Vikram Kumar Reddy, M. Abdul Kareem, G. Saayi Krushna and K. Lakshmidhevi. Cardioprotective effect of HPLC standardized ethanolic extract of *Terminalia pallida* Fruits against isoproterenol-induced myocardial infarction in albino rats. **Journal of Ethnopharmacology 2012, 141 (1) 33-40. Impact factor 2.981**
10. **Althaf Hussain Shaik***, S.N.Rasool, M. Abdul Kareem, G. Saayi Krushna, P. Akhtar, K. Lakshmi Devi. Maslinic acid protects against isoproterenol-induced cardiotoxicity in albino Wistar rats. **Journal of Medicinal Food 2012, 15 (8), 741-746. Impact factor 1.955**
11. Gadhamsetty Saayi Krushna, Mohammed Abdul Kareem, Vaddi Damodara Reddy, Pannuru Padmavathi, **Shaik Althaf Hussain*** and Lakshmi Devi Kodidhela. *Aegle marmelos* Fruit Extract attenuates isoproterenol-induced oxidative stress in rats. **Journal of clinical biochemistry and nutrition 2011, 50 (3), 199-204. Impact factor 2.087**
12. M. Abdul Kareem, G. Saayi Krushna, **S. Althaf hussain*** and K. Lakshmidhevi. Effect of Nutmeg aqueous extract on hyperglycaemia, hyperlipidaemia and cardiac histology associated with isoproterenol- induced myocardial infarction in rats. **Tropical Journal of Pharmaceutical Research. August 2009, 8 (4), 337-344. Impact factor 0.569**

Projects:

- “Phytotherapy and Green Nanotechnology against Cardiovascular Diseases with reference to Saudi Arabia” working as the **Principal Investigator** for the Research Group Project (RG-1438-058) sanctioned by Deanship of Scientific Research (DSR), King Saud University, Saudi Arabia-2017
- “Cancer biology and Obesity with reference to Saudi Arabia” working as the **Research Group Member** for the Research Group Project (RG-1437-032) sanctioned by Deanship of Scientific Research (DSR), King Saud University Saudi Arabia-2016
- “Development of novel chimeric enzybiotics against drug resistant clinical isolates of *Staphylococcus aureus* and *Enterococcus faecalis* from Saudi Arabia” working as a **Co-Investigator** for the Research Project (15-BIO3608-02) sanctioned by King Abdulaziz City for Science and Technology (KACST), Saudi Arabia- 2015
- “Production, Isolation and Purification of polyclonal antibodies in New Zealand Rabbits” academic project worked in Department of Biochemistry, Osmania university, Hyderabad, India-2004

International Journals Editorial Board Member:

- EC Cardiology (UK)
- Journal of Pharmacology and Pharmaceutical Research (USA)

International and National Seminars, Conferences & Workshops Participated:

- **Althaf Hussain Shaik**, 27th, April 2017. “Bioscience” Seminar at KKU Hospital conducted by Thermo Fisher Scientific and IGBiosystems, Riyadh, Saudi Arabia. ***Participated.***
- **Althaf Hussain Shaik**, 1st, June 2016. “Single Cell Biology” Seminar at Holiday Inn hotel conducted by Neo Science, Riyadh, Saudi Arabia. ***Participated.***
- **Althaf Hussain Shaik**, 23-24, April 2014. “STEM CELLS in Science and Medicine” Symposium, Riyadh, Saudi Arabia. ***Participated.***
- **Althaf Hussain Shaik**, November 28-December 1, 2012. “East-West Cell Signaling Conference”. Hyatt Regency, Jeju, South Korea. ***Participated.***
- **Althaf Hussain Shaik**, 3-7, January 2012. 99th Indian Science Congress. KIIT University, Bhubaneswar, Odisha, India. ***Participated.***
- **Althaf Hussain Shaik**, Abdul kareem M, Saayi krisna G, Lakshmi devi K, 7-9, December 2011. International symposium on innovations in free radical research and experimental therapeutics & 5th Annual convention of biotechnology and pharmacy. Karunya University, Coimbatore, Tamil Nadu, India. ***Oral paper presentation.***
- **S.Althaf hussain**, M.Abdul kareem, G. Saayi krisna, K.V. Sailaja., K.Lakshmi devi, 12-15 November 2011. 80th Annual Meeting of the Society of Biological Chemists (India). Central Institute of Medicinal and Aromatic Plants (CIMAP), Lucknow, INDIA. ***Poster paper presentation.***
- **S.Althaf hussain**, M.Abdul kareem, K.Lakshmi devi, 27-29 December 2010. 2nd International seminar on medicinal plants and herbal products. S.V.U,Tirupati. A.P., INDIA. ***Poster paper presentation.***
- **S.Althaf hussain**, M.Abdul kareem, K.Lakshmi devi, 1-2 November 2010. National workshop on “Computer based statistical tools for medical and biological sciences”. Govt.college, Anantapur, A.P., INDIA. ***Training programme.***
- **S.Althaf hussain**, M.Abdul kareem, K.Lakshmi devi, 22-24 July 2009. National seminar on frontiers in Biotechnolgy. Dept. of Biotechnology, Bharathiar University. Coimbatore, Tamilnadu, India. ***Poster paper presentation.***
- M. Abdul Kareem, G. Saayi krisna S. Althaf hussain, K. Lakshmi devi. 77th SBCI, conducted by IIT Chennai, India from 18-20 Dec, 2008. ***Poster paper presentation.***
- M.Abdul kareem ., **S.Althaf hussain .**, K.Lakshmi devi, 3-6 November 2008. Asian symposium on medicinal plants, spices and other natural products XlII. Natural products in drug discovery. Indian institute of chemical technology (IICT), Hyderabad. ***Poster paper presentation.***
- M.Abdul kareem., **S.Althaf hussain .**, K.Lakshmi devi, 15-17 august, 2008 . International conference on Plant Biotechnology and Molecular biology. Department of biotechnology, Kakatiya University, Warangal. ***Poster paper presentation.***
- **S.Althaf hussain**, March 2008, work shop on computer oriented statistical tools and techniques for physical and biological sciences, S.K.U, Anantapur, A.P., INDIA. ***Training programme.***
- M.Abdul kareem., **S.Althaf hussain .**, K.Lakshmi devi .Annual convention of Andhra Pradesh academy of sciences and national symposium on science in 21st century, S.K.U, Anantapur, A.P.,INDIA. ***Poster paper presentation.***

- G.Saayi krushna., M.Abdul kareem ., **S.Althaf hussain .**, K.Lakshmi devi, March 2008. International seminar on medicinal plants and herbal products, S.V.U, Tirupati. ***Poster paper presentation.***
- M.Abdul kareem ., **S.Althaf hussain .**, K.Lakshmi devi ,Nov 2007. 76th Annual meeting of society of biological chemists (India), S.V University, Tirupati, India. ***Poster paper presentation.***

Laboratory Work Proficiency:

Models worked:

- Wistar strain Albino Rats
- Sprague Dawley Rats
- New Zealand Rabbits
- Animal cell culture: Myocardial Cell lines

Analytical Techniques and Biochemical analysis:

- Preparation and standardization of plant extracts with HPLC and GC-MS
- Green Synthesis and applications of Nanoparticles
- Drugs and Phytochemicals analysis on Cell lines and Animal models
- Handling, routes of immunization and surgery of lab animals to collect blood and organs
- Langendorff perfusion of heart for primary cell line preparation of cardiomyocytes
- Biological samples analysis for the estimation of biomolecules
- Confocal microscopic and Light microscopic analysis
- Histopathological study of biological tissues

Molecular Biology, Protein and Immunochemistry:

- Isolation of DNA/RNA/Plasmid from Bacteria, Cell lines, plant and Animal Tissue
- SDS-PAGE analysis, 2-D gel electrophoresis, ELISA and Western blotting
- Animal Immunization to rise the desired antibodies

Computer Skills:

- MS word, Power point, MS Excel, Photoshop and Origin statistics

Memberships:

- Lifetime Member (Member ship Number-2611) in **Society for Biological Chemists India (SBC, India)**
- Annual member in **National Science Congress**, India

Personal details:

- Father Name : **Shaik Abdul Azeez**
- Mother Name : **Shaik Mahaboob Bee (Late)**
- Date of Birth : 26th August 1980
- Marital status : Married
- Children : One Boy

Hobbies & Services:

- Reading Journals, Articles and Magazines; Participating in Conferences, Seminars and Workshops; Script Writing; Watching News, Scientific Programs, Movies, and Listening Music
- **Voluntary Social Welfare Work :**
President : **Doctor Althaf** Welfare Society, Nandyal-518501, A.P, INDIA.
Vice president : **Vikas** Educational and Health Society, Nandyal-518501, A.P, INDIA.
Secretary : **Al Azeez** minority Welfare society, Nandyal, A.P, INDIA

References:

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IGNOU, New Delhi, India.

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Declaration:

I hereby declare that the above details furnished are true to the best of my knowledge



(SHAIK ALTHAF HUSSAIN)