



Full name: Dr. Sadananda Acharya, *PhD*

Position: Assistant Professor

### Personal Data

Nationality	INDIA
Date of Birth	20.07.1978
Department	Department of Public Health
Official IAU Email	sabaikady@iau.edu.sa
Office Phone No.	013 33 31679

### Language Proficiency

Language	Read	Write	Speak
English	+++	+++	+++
Japanese	-	-	++
Hindi	++	++	+++

### Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
June 2008	Research Fellowship	Kanazawa, Japan	Graduate School of Medical Sciences, Kanazawa University, Kanazawa, Japan -920-1192
Oct 2007	PhD (Microbiology)	Bidar, Karnataka, India	Kvafsu University, Bidar, Karnataka, India - 585401
Aug 2002	MSc	Mumbai, India	Indian council for Agricultural Research (ICAR), Mumbai, India - 400 061
Aug 2000	BSc	Bangalore, India	University of Agricultural Sciences, GKVK, Bangalore, India

### PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions)

<b>Research Fellowship</b>	Monbukagakusho: MEXT Japanese Govt. Fellowship - 2006-2008
<b>PhD</b>	Research: Quantification of human pathogenic Vibrios in seafood using molecular techniques Award: Distinction Fellowship: Senior Research Fellowship awarded by Indian Council of Medical Research, New Delhi – (2002-2005)
<b>MSc</b>	Research: Cellular and humoral defense factors in <i>Macrobrachium malcolmsonii</i> : A preliminary study Award: Gold Medal Fellowship: Junior Research Fellowship awarded by Indian Council of Agricultural Research, New Delhi (2000-2002)



**Professional Record: (Beginning with the most recent)**

Job Rank	Place and Address of Work			Date
Assistant Professor	Department of Public Health, College of Public Health	Imam Abdulrahman Bin Faisal University	Dammam, Kingdom of Saudi Arabia	Sept 2017 till date
Assistant Professor	Institute for Research and Medical Consultations (IRMC)	University of Dammam	Dammam, Kingdom of Saudi Arabia	Nov 2010 – Aug 2017
Lecturer	Post-Graduate Department of Biotechnology	Alva's College	Mangalore University, India	June 2008-Oct 2010
Research Scholar	Department of Stem Cell Biology	Kanazawa University	Kanazawa, Japan	April 2006-June 2008
Senior Researcher	Department of Microbiology	Kvafsu University	Karnataka, India	Oct 2002-March 2005

**Administrative Positions Held: (Beginning with the most recent)**

Administrative Position	Office	Date
Registrar	Office of Vice Dean of Academic Affairs, College of Public Health	Sept 2019 till date
Director	Students Advising Unit Office of Vice Dean of Academic Affairs, College of Public Health	Sept 2020 till date
Quality Co-Ordinator	Department of Public Health College of Public Health, IAU	Sept 2017-Sept 2019
Department Representative	Dept. of Stem Cell Biology, Institute for Research and Medical Consultations, University of Dammam, Saudi Arabia	Jan 2015 – June 2017

**Scientific Achievements**

**Published Refereed Scientific Researches**

(In Chronological Order Beginning with the Most Recent)

Name of Investigator(s)	Research Title	Publisher and Date of Publication
Al-Zahrani FM, Al-Amri A, Shaikh SS, Muzaheed, Alomar AI, <b>Acharya S</b> , Aldossary MA, Hassan FM	Direct DNA Sequencing-Based Analysis of Microbiota Associated with Hematological Malignancies in the Eastern Province of Saudi Arabia	BioMed Research International, <b>2021</b> , Feb 3
Sadat-Ali M, Al-Omran AS, <b>Acharya S</b> , Hijazi, TM, Gullenpet, AH	The Clinical and Radiological Effectiveness of Autologous Bone Marrow Derived Osteoblasts in the Management of Avascular Necrosis of Femoral Head in Sickle Cell Disease	Stem Cell Research and Therapy, <b>2021</b> , Feb 11



Sadat-Ali M, Al-Dakheel DA, Ahmed A, Al-Turki HA, Al-Omran, AS, <b>Acharya S</b> , Al-Bayat, M	Spinal cord injury regeneration using autologous bone marrow-derived neurocytes and rat embryonic stem cells: A comparative study in rats	World Journal of Stem Cells, <b>2020</b> , Dec 26; 12; 1591
Muzaheed, <b>Acharya S</b> , Hakami AR, Allemailem KS, Alqahtani K, Al-Saffan A, Aldakheel FM, Divakar DD	Effectiveness of single versus multiple sessions of photodynamic therapy as adjunct to scaling and root planning on periodontopathogenic bacteria in patients with periodontitis	Photodiagnosis and photodynamic therapy, <b>2020</b> , Dec 1; 32; 102035
Linyu L, Ali Abuderman AW, Muzaheed, <b>Acharya S</b> , Divakar DD.	Modulation of host immune status by cryptococcus co-infection during HIV-1 pathogenesis and its impact on CD <sup>4</sup> cell and cytokines environment	Microbial Pathogenesis, <b>2020</b> Feb;139:103864
Abushaheen MA, Muzaheed, Fatani AJ, Alosaimi M, Mansy W, George M, <b>Acharya S</b> , Rathod S, et al.	Antimicrobial resistance, mechanisms and its clinical significance	Disease-A-Month, <b>2020</b> , Mar., vol. (19)
Alzahrani FM, Muzaheed, Shaikh SS, Alomar AI, <b>Acharya S</b> , Elhadi N.	Prevalence of Hepatitis B Virus (HBV) Among Blood Donors in Eastern Saudi Arabia: Results From a Five-Year Retrospective Study of HBV Seromarkers	Annals of Laboratory Medicine, <b>2019</b> Jan;39(1):81-85
Sadat-Ali M, Al-Dakheel DA, AlMousa SA, AlAnii FM, Ebrahim WY, AlOmar HK, AlSayed HN, <b>Acharya S</b> , AlHawaj H.	Stem-cell therapy for ovariectomy-induced osteoporosis in rats: a comparison of three treatment modalities	Stem Cells and Cloning: Advances and Applications, <b>2019</b> , Jun 14;12:17-25
Mohamed Elfatih Hassan, Guanglong Liu, Eltigani Osman Musa Omer, Arafat M. Goja, <b>Sadananda Acharya</b>	Silver embedded C-TiO <sub>2</sub> exhibits improved photocatalytic properties with potential application in waste water treatment	Arabian Journal of Chemistry, <b>2018</b> , Nov; 12 (7); 1134-1140
S Chathoth, MH Ismail, C Vatte, C Cyrus, Z Al Ali, KA Ahmed, <b>Acharya S</b> , Aisha Mohammed Al Barqi, Ameen Al Ali	Association of Uncoupling Protein 1 (UCP1) gene polymorphism with obesity: a case-control study	BMC Medical Genetics, <b>2018</b> , 19 (1), 203
Hasan Al-Sayed, Sadat Ali, Fares Uddin, Fawaz Alani, <b>Acharya S</b>	Outcome of bone marrow derived chondrocyte injection for meniscal injuries: A preliminary study	Trends in Medicine, <b>2018</b> ; 18 (5); 1-4.
M Sadat-Ali, HA Al-Turki, <b>Acharya S</b> , DA Al-Dakheel	Bone Marrow-derived Osteoblasts in the Management of Ovariectomy induced Osteoporosis in Rats	Journal of Stem Cells and Regenerative Medicine, <b>2018</b> , 14, 2, 63
Rabindran Jermy, <b>Acharya S</b> , Vijaya Ravinayagam, Saleh Alghamdi, Sultan Akhtar	Hierarchical mesosilicalite nanoformulation integrated with cisplatin exhibits target-specific efficient anticancer activity	Applied Nanoscience, <b>2018</b> ; 8 (5); 1205-1220.
Widyan AA, <b>Acharya S</b> , Shafi, M., Alsamman, K., Hatem KIH., Sultan, TA., Faraz Ahmed	A simplified colorimetric method for rapid detection of cell viability and toxicity in adherent cell culture systems	Journal of Balkon Union of Oncology <b>2018</b> ; 23(5): 1505-1513



Faraz, A., Salahuddin, Widiyan and <b>Acharya, S.</b>	Dysfunction of cortical synapse-specific mitochondria in developing rats exposed to lead and its amelioration by ascorbate supplementation	Neuropsychiatric Disease and Treatment. <b>2018</b> :14 813–824
Vatte C, Al Amri AM, Cyrus C, Chathoth S, <b>Acharya S</b> , Hashim TM, Al Ali Z, Alshreadah ST, Alsayyah A, Al-Ali AK.	Tyrosine kinase domain mutations of EGFR gene in head and neck squamous cell carcinoma	Onco Targets and Therapy. 13;10:1527-1533. <b>(2017)</b>
Mir Sadat-Ali, Md Q Azam, Ezzat M Elshabouri, Ahmad M Tantawy, <b>Acharya S</b>	Stem Cell Therapy for Avascular Necrosis of Femoral Head in Sickle Cell Disease: Report of 11 Cases and Review of Literature	International Journal of Stem Cells. <a href="https://doi.org/10.15283/ijsc17019">https://doi.org/10.15283/ijsc17019</a> . <b>(2017)</b>
AlShammari, MS, Al-Ali R, Al-balawi N, Al-Enazi MS, Al-Muraikhi AA, Busaleh FN, Al-Sahwan AS, Al-Elq A, Al-Nafaie AN, Borgio JF, AbdulAzeez, S Al-Ali A, <b>Acharya S</b>	Type 2 Diabetes associated variants of KCNQ1 strongly confer the risk of Cardio Vascular Disease among Saudi Population. Genetics and Molecular Biology	Genetics and Molecular Biology, <b>2017</b> Jul-Sep; 40(3): 586–590.
<b>Acharya S</b> , Al-Elq A, Al-Nafaie AN, Muzahheed and Al-Ali A	Type 2 Diabetes Mellitus Susceptibility gene TCF7L2 is strongly associated with hyperglycaemia in Saudi population of Eastern Province of Saudi Arabia	European Review for Medical and Pharmaceutical Sciences. 19: 3100-3106. <b>(2015)</b>
Mir Sadat Ali, Md Quamar Azam, Dakheel A. AlDakheel, <b>Acharya S</b> ,	Healing of experimentally created non-union of femur in rats using bone marrow precursor cells from mesenchymal stem cells	Journal of Stem Cells, 10 (2); 91-96. <b>(2015)</b>
Akhila Zainab, Rama Bhat P., <b>Acharya S</b> , Ashutosh Yende, Prajna P.S. and Subramanya Padyana.	Studies on Antioxidant and Antimicrobial Activities of Pajanelia longifolia (Willd.) Schumann.	Journal of Research in Obesity, Vol. 2013, Article ID 756484, DOI: 10.5171/2013. 756484. <b>(2013)</b>
Ashutosh Yende, Rama Bhat P., Akhila Zainab, <b>Acharya S</b> , Subramanya Padyana.	Evaluation of antioxidant and antimicrobial activities of Holigarna arnottiana Hook.	The Journal of Free Radicals and Antioxidants. Photon 139, 278-288 <b>(2013)</b>
Subrahmanya Padyana, Akhila Zainab, Ashalatha. M. and <b>Acharya S</b>	Antioxidant and Antibacterial Properties of Pajanelia Longifolia (willd.) K. Schum.	Annals of Biological Research. 2 (2). 11-18. <b>(2011)</b>
Sumalatha, Rama Bhat P., Shwetha R. Ballal and <b>Acharya S</b>	Studies on immunomodulatory effects of Salacia chinensis L. on albino rats.	Journal of Applied Pharmaceutical Science Vol. 2 (9). 98-107 <b>(2012)</b>
Shwetha R. Ballal, Rama Bhat P., Sumalatha and <b>Acharya S</b>	Studies on Immunostimulatory Effect of Pajanelia longifolia (willd.) Schumann on Albino Rats.	International Journal of Research in Pharmaceutical and Biomedical Sciences, 3 (4); 1642-1651. <b>(2012)</b>
Raghunath R., <b>Acharya S</b> , Bhanumathi, A., Karunasagar, I. and Karunasagar, I.	Detection and molecular characterization of Vibrio parahaemolyticus isolated from seafood harvested along the southwest coast of India.	Food Microbiology, 25(6), 824-830. <b>(2008)</b>
Malathi, S., <b>Acharya S</b> , Karunasagar, I. and Karunasagar, I.	Variable repeat regions in the genome of Vibrio vulnificus and polymorphism in one of the locus	International Journal of Food Microbiology, 123 (3), 240-245. <b>(2008)</b> .



	in strains isolated from oysters in India.	
<b>Acharya S</b> , Mohanthy J. and Sahoo, P. K.	Humoral defense factors in Indian river prawn, <i>Macrobrachium malcolmsonii</i> .	Fish and Shellfish Immunology, 17, 137-147. 9 (2004)

#### Research Papers Presented in Conferences:

Sadat Ali, Ahmad Tantaway and <b>Acharya, S</b> . Stem cell therapy for avascular necrosis of femoral head in sickle cell disease: Report of 11 cases and review of literature. Seventh international conference of Saudi orthopedic association, 17 <sup>th</sup> -20 <sup>th</sup> Nov, 2017, Jeddah, Saudi Arabia
Maha Al Shammari, Rhaya Al Ali, Nader Al-Balawi, Mansour Al-Enazi, Ali Al-Muraikhi, Fadi Busaleh, Ali Al-Sahwan, Francis Borgio, Abdul Azeez Sayyed, Amein Al-Ali, <b>Acharya, S</b> . KCNQ1 Gene Polymorphism and its Association with CVD and T2DM in the Saudi Population. The third international genomic medicine conference, Jeddah, Saudi Arabia. Nov 2015
<b>Acharya, S</b> . A. Bhanumathi, Indrani Karunasagar and Iddya Karunasagar. Incidence, Abundance and Seasonal Variation Of <i>Vibrio Vulnificus</i> in Oysters off Karnataka Coast. Conference on Microbiology of the Tropical Seas. National Institute of Oceanography, Dona Paula, Goa 403 004 India

#### Scientific Publications (Books, Translations, Chapter in Books, etc.)

Rajesh, B. T. and <b>Acharya Sadananda.</b> , (2004), DNA vaccines: wave of the future, <i>Infofish</i> 1/2004, p 8-10
Rajesh, B. T. and <b>Acharya Sadananda.</b> , (2003), Immunostimulants in Aquaculture, <i>Fishing Chimes</i> , 22 (10 & 11), 105-107.

#### Completed Research Projects:

	Name of Investigator/s	Research Title	Funding Source & Amount
1.	Acharya Sadananda	Association of TCF7L2 polymorphism and T2DM among the Saudi population of Eastern Province of Saudi Arabia	DSR/UoD 99,000 SAR
2.	Acharya Sadananda	Association of polymorphism in VDR gene and T2DM among Saudi population of Eastern Province of Saudi Arabia	DSR/UoD 199,000 SAR
3.	Acharya Sadananda	GST deletion genotypes and T2DM among Saudi population of eastern province	DSR/UoD 198,000 SAR

#### Current Research:

	Name of Investigator	Research Title	Funding Source & Amount
1.	Acharya Sadananda	RNA interference against hippo pathway: targeting breast cancer stem cells	KACST 1,824,000 SAR
2.	Acharya Sadananda	Role of 8-nitroguanosine 3',5'-cyclic monophosphate in the pathophysiology of breast cancer	KACST 100,000 SAR
3.	Acharya Sadananda	Investigations on the role of Sox2 overexpression in breast cancer stem cells	DSR/UoD 197,479 SAR
4.	Acharya Sadananda	Molecular mechanisms in regulation of Sox2 expression in ES cells	DSR/UoD 198,000 SAR



#### Contribution to Scientific Conferences and Symposia

	Title	Place and date of the conference	Extent of contribution (attendant, speaker, or organizer)
1.	International conference on Tumor Biology	Kanazawa, Japan, 2007	attendant
2.	International conference on water microbiology	Mangalore, India 2005	attendant
3.	Conference on Microbiology of the Tropical Seas	Goa, India, 2005	speaker
4.	National conference on prospects of biotechnology	Moodbidri, India 2009	organizer
5.	Application of pluripotent stem cells in regenerative medicine	Dammam, 2011	attendant

#### Contribution to Scientific Journals as a Reviewer or as a Member in the Editorial Board:

	Type of Contribution	Journal	Institution	Country	from	to
1	Reviewer	Diabetes research and clinical practice	Elsevier	UK	2013	Till date
2	Reviewer	Journal of Applied Pharmaceutical Sciences	JAPS society	India	2014	Till date
3	Reviewer	Gene	Elsevier	UK	2014	Till date
4	Reviewer	Meta Gene	Elsevier	UK	2014	Till date

#### Membership of Scientific and Professional Societies and Organizations

	Type	Society / council	Address	Date
1.	Member	Association of Microbiologists of India	Mangalore, India	Since 2005
2.	Member	Association of Aquaculturists	Bhubaneswar Orissa	Since 2002

#### Awards and Honors

	Awards and Honors:	International / National organization	Date
1.	Gold Medal (masters)	ICAR New Delhi	2003
2.	Junior research fellowship award	ICAR, New Delhi	2000
3.	Senior research fellowship	DOD-OSTC, New Delhi	2003
4.	Senior research fellowship	ICMR, New Delhi	2003
5.	Monbukagakusho:MEXT Fellowship, JAPAN	Japan	2006



## Teaching Activities

### Undergraduate:

	Course Title	Extent of contribution
1.	Microbiology	Taught full course with laboratory sessions
2.	Genetic Engineering and recombinant technology	Taught full course with laboratory sessions
3.	Biotechnology	Taught full course with laboratory sessions
4.	Quality Management	Taught full course
5.	Research methodology	Taught full course
6.	Food Safety and Hygiene	Taught full course, theory and lab sessions

### Postgraduate:

	Course/Rotation Title	Extent of contribution
1.	Microbiology	Taught full course + labs
2.	Biotechnology	Taught full course + labs
3.	Genetic engineering	Taught full course + labs
4.	Infection control	Taught full course

### Supervision of Master and/or PhD Thesis:

	Degree Type	Title	Institution
1.	MSc	Studies on Antioxidant and Antimicrobial Activities of <i>Pajanelia longifolia</i> (Willd.) Schumann.	Alva's College, Mangalore University
2.	MSc	Evaluation of antioxidant and antimicrobial activities of <i>Holigarna arnottiana</i> Hook	Alva's College, Mangalore University
3.	MSc	RAPD analysis of <i>Vibrio parahaemolyticus</i> from seafood	Alva's College, Mangalore University
4.	MSc	DNA fingerprinting profile of <i>Vibrio vulnificus</i>	Alva's College, Mangalore University

## Administrative Responsibilities, Committee and Community Service

### (Beginning with the most recent)

#### Administrative Responsibilities

#	From	To	Position	Organization
	Sept 2019	Till date	Registrar	College of Public Health, IAU, Dammam
	Sept 2017	Sept 2019	Quality Co-ordinator	Dept of Public Health, IAU, Dammam
	Sept 2017	March 2018	Co-ordinator	Post-Graduate diploma in Food Safety curriculum development, IAU, Dammam
	Jan 2015	Sept 2017	Dept. Representative	IRMC, University of Dammam

#### Committee Membership

#	From	To	Position	Organization
	Nov 2019	Till date	Member	Committee on Quality of Assessment and Examinations, College of Public Health, IAU
	Sept 2017	Till date	Member	Examination Committee of the Dept
	Nov 2020	Till date	Member	Public Health curriculum revision committee
	Feb 2021	Till date	Member	Quality Committee, Dept. of Public Health

#### Personal Key Competencies and Skills: (Computer, Information technology, technical, etc.)

1	Data analysis by SPSS, MS office, Research software
---	---

Last Update Feb / 2021