

## Dr. Abesh Reghuvaran

Assistant Professor  
Centre for Science in Society (C-SiS)  
Cochin University of Science and Technology (CUSAT)  
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### CURRENT POSITION

**Working as Assistant Professor in Centre for Science in Society(C-SiS), Cochin University of Science and Technology (CUSAT), Kerala, India.**

### PERSONAL DETAILS

Date of Birth	:	08-11-1982.
Father's name	:	D Reghuvaran.
Mobile Number	:	+91 9946 199 199
E mail	:	<a href="mailto:abesh199@gmail.com">abesh199@gmail.com</a> , <a href="mailto:abesh199@cusat.ac.in">abesh199@cusat.ac.in</a>
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### EDUCATION

<b>Ph. D Environmental Biotechnology</b>	<b>2009-2014</b>
<ul style="list-style-type: none"><li>School of Environmental Studies, Cochin University of Science and Technology, Cochin, Kerala, India.</li></ul>	
<b>M Phil Biotechnology</b>	<b>2006-2007</b>
<ul style="list-style-type: none"><li>Bharathidasan University, Tamil Nadu, India</li></ul>	
<b>Master of Science in Biotechnology</b>	<b>2003-2005</b>
<ul style="list-style-type: none"><li>Periyar University, Tamil Nadu, India</li></ul>	

## PROFESSIONAL RESEARCH EXPERIENCE

- **Two year research experience Integrated Rural Technology Centre(IRTC)**, as the Scientific Assistant and associated with Quality Control Analysis of Solid Waste Management such as Vermicompost, Coir pith Compost, Mushroom Spawn production, Soap making and Quality analysis of Soaps.
- **Two year experience as Junior Research Fellow and two year as Senior Research Fellow in Rajiv Gandhi Chair in Contemporary Studies, Cochin University of Science and Technology** as Junior Research Fellow and undertook various Research works relates Ecosystems and Sustainable Development and Waste Management.
- **6 years and 9 months experience as Project Assistant and Project Associate** in various projects implemented in University..

## LIST OF PUBLICATIONS

International Journals	=	4
National Journals	=	4
Manuscripts under Review	=	2
Books Edited	=	2
Paper Presented in Conferences	=	3
Conferences Organized	=	7
Conferences Attended	=	14

## JOURNALS

- Abesh Reghuvaran., Anita Das Ravindranath, P.Natarajan and Arun Augustine. (2009). Substitution of Urea with Fungi and Nitrogen fixing Bacteria for composting Coir Pith. *Madras Agric. J.*, (1-6): 144- 149. **(Peer Reviewed)**
- Abesh Reghuvaran& Anita Das Ravindranath. (2010). Efficacy of biodegraded coir pith for cultivation of medicinal plants. *Journal of Scientific & Industrial Research*. 69: 554-559. **(Impact Factor 0.587)**.
- Abesh Reghuvaran& Anita Das Ravindranath. (2011). The effect of different mutagens on Amylase activity of *Bacillus spp* on Sago waste. *International Journal of Biotechnology Research*. 1: 27-32. **(Peer Reviewed)**.
- Abesh Reghuvaran& Anita Das Ravindranath. (2012). Biochemical Aspects of Coir pith degraded by *Pleurotussajorcaju*. *Journal of Toxicology and Environmental Health Sciences (JTEHS)*. 4(1); 29-36. **(Peer Reviewed)**.
- Abesh Reghuvaran & Anita Das Ravindranath. (2011). Coir pith as a growth medium for *Azotobacter vinelandii* and *Azospirillum brasilense*. *International Journal on Coconut R D*.

27(2): 63-73. **(Peer Reviewed).**

- Abesh Reghuvaran & Anita Das Ravindranath. (2012). Isolation and Characterization of Nitrogen fixing bacteria from Coir pith. *African Journal of Biotechnology*. 11(27); 7063-7071. **(Impact Factor 0.57).**
- Abesh Reghuvaran & Anita Das Ravindranath (2013). Bioconversion of coir pith to effective soil less media for roof gardening. *Advances in Applied Research*. 5 (2); 141-146.
- Abesh Reghuvaran & Anita Das Ravindranath. (2014). Use of Coir pith compost as an Effective Cultivating media for Ornamental, Medicinal and Vegetable plants. *International Journal of Biology, Pharmacy and Allied Sciences*. 3 (1); 88-97.

## **BOOKS/PROCEEDINGS EDITED**

- Proceedings of International Conference on Biodiversity Conservation and Management (BIOCAM 2008) (Co- Editor)
- Proceedings of the National Seminar on Environmental Management for Sustainable Livelihood. (Organizing Committee Member).

## **PAPER PRESENTATIONS IN SYMPOSIA/SEMINARS**

- Abesh Reghuvaran, Anita Das Ravindranath, Natarajan P, Aneesh Kumar K V and Arun Augustine (2008). A study on the biochemical aspects of coir pith degraded by *Pleurotussajorcaju*. International Conference on Biodiversity Conservation and Management (BIOCAM 2008) pp. 134
- Abesh Reghuvaran, Anita Das Ravindranath, Natarajan, P., Aneesh Kumar, K. V and Arun Augustine (2007). The effect of different mutagens on amylase activity of *Bacillus spp* on sago waste. *National Symposium on Recent trends in Bio- Sciences* (RTIBS-2007). Pp.22
- Abesh Reghuvaran, Anita Das Ravindranath, Natarajan, P., Aneesh Kumar, K. V and Arun Augustine (2008). Biodegradation of Coir pith with combination of fungus and nitrogen fixing bacteria. *National Seminar on Wetland Biodiversity* (NSWB-2008).

## **CONFERENCES AND SYMPOSIA ORGANIZED**

- International Conference on Biodiversity Conservation and Management (BIOCAM 2008). Conducted by Rajiv Gandhi Chair in Contemporary Studies, School of Environmental Studies, CUSAT. (February 3-6, 2008).
- Seminar on Action plan for the Ramsar sites of Kerala. Conducted by Rajiv Gandhi Chair in Contemporary Studies. School of Environmental Studies, CUSAT. (March 24 & 25, 2008).
- National Seminar on Environmental Management for Sustainable Livelihood. Conducted by S. N. College, Cherthala and Rajiv Gandhi Chair in Contemporary Studies,

School of Environmental Studies, CUSAT. (December 13 & 14, 2007).

- National Seminar on Possible impacts of Sethusamudram project along Kerala coast. Organized by Rajiv Gandhi Chair in Contemporary Studies, School of Environmental Studies, CUSAT. (October 18, 2007).
- Interactive work shop on Planet Earth- Our Home: Explore, Care and Share. Organized by Rajiv Gandhi Chair in Contemporary Studies, School of Environmental Studies, CUSAT.(November 19, 2009).
- National symposium on Impact of Climate change on Aquatic ecosystems. Organized by Rajiv Gandhi Chair in Contemporary Studies, School of Environmental Studies, CUSAT. (February 18 & 19, 2010).
- Workshop on Research Methodology. Organized by Department of Social work, Sree Sankara University of Sanskrit, Kalady and Rajiv Gandhi Chair in Contemporary Studies, School of Environmental Studies, CUSAT. November 26 to 30, 2007.

## **CONFERENCES AND SYMPOSIA ATTENDED**

- International workshop on the sustainable city- technologies and systems for sustainable development. Organized by Network for Indian- Swedish Cooperation Technical Research and Education (INTEC) in collaboration with School of Environmental Studies, CUSAT. December 10-12, 2008).
- One Day Seminar on Energy Security, Low Carbon vista-India's options on March 29, 2008 conducted by Association of British Scholars, Cochin. Venue: CMFRI Auditorium, Cochin.
- One Day Seminar on Energy Security, Low Carbon vista-India's options on March 29, 2008 conducted by Association of British Scholars, Cochin. Venue: CMFRI Auditorium, Cochin.
- Seminar on Appropriate Technology for Sustainable Rural Development on 29 September 2007 conducted by Centre for Rural Development and Appropriate Technology(CRDAT), Cochin University of Science and Technology, Kerala.
- Seminar on Update on Geriatrics and Gerontology. Organized by Department of Medicine, Co- Operative Medical College, Kalamassery, Cochin. July 10, 2009.
- Seminar on Microbiology and Biotechnology. Organized by Department of Zoology & Research Centre,S. D. College, Alappuzha and Association of Microbiologists in India, Cochin Chapter. September 15, 2001.
- Seminar on Biotechnology and Bioinformatics. Organized by Post Graduate Department of Zoology, Nirmala College. September 28, 2002.
- Workshop on Energy Security, low carbon vista- Indian options. Organized by Association of British Scholars, Kochi. March 29, 2008.
- Seminar on Women in Science: A Career in Science- An initiative of Indian Academy of Sciences: Women in Science. April 5, 2008.
- Seminar on Biosciences. Organized by P. G. Department of Zoology and Research

Centre, S. D. College, Alappuzha. December 15, 2007.

- National seminar on Trends in Biotechnology. Organized by Tropical Botanical Garden & Research Institute, Palode, Trivandrum and Society for Biotechnologists (India). July 24, 2002).
- Seminar on Biotechnology. Organized by P. G. Department of Zoology and Research Centre, S. D. College, Alappuzha. February 10, 2001.
- Seminar on Recent trends in Applied Biosciences. Organized by P. G. Department of Zoology, S. N. College, Cherthala. August 17 & 18, 2005.
- Seminar on Appropriate technology for Sustainable Rural Development. Organized by Centre of Rural Development and Appropriate Technology (CRDAT), CUSAT, Cochin 22. September 29, 2007.
- Workshop on Creative Science Writing. Organized by Centre for Science Communication, CUSAT. February 29, 2008.

#### **TECHNICAL EXPERTISE**

- Biochemical/Cellular techniques – Spectrophotometer, Cell Culture, Gel Electrophoresis, EC-TDS analyzer, pH meter and Western Blotting, Scanning Electron Microscope.
- Culture Techniques – Culturing of Oyster mushroom, Bacteria.
- Chromatographical Techniques – Paper Chromatography, Thin Layer Chromatography, Gas Chromatography and High Performance Liquid Chromatography (HPLC).
- Computer Proficiency – Microsoft office, Adobe Photoshop.

#### **TRAININGS ATTENDED**

- Three Day Course on Biotechnology and Biofertilizers conducted during 6-8, November 2002 on The Fertilizers and Chemicals Travancore Limited, Cochin.
- 8 Day training on Clinical Laboratory Techniques conducted during November 18 to 25 on Sanker's Lab, X-Ray and ECG, Alappuzha, Kerala. Alcohol and Drug Abuse Research Grant.
- 6 Day training programme on Molecular Cloning and Protein Purification conducted by Usha Biotech Pvt Ltd, Hyderabad. 12 to 17 October 2009.
- Workshop on Research Methodology during Nov. 26-30 at Sree Sankara University of Sanskrit, Kalady jointly organized by Rajiv Gandhi Chair on Contemporary Studies, Cochin University of Science and Technology, Cochin and Sankara University of Sanskrit, Kalady.

#### **TRAININGS/WORKSHOPS ORGANIZED**

- Conducted 5 Day Training programme on Viable Technologies in Sustainable Aquaculture Production for Rural Livelihood. Sponsored by National Fisheries Development Board (NFDB) at Thakazhy Grama Panchayath, Kerala, India.
- 5 Day Training programme on Integrated Farming for Enhancing Coastal Livelihood

Sponsored by National Fisheries Development Board(NFDB) at Thakazhy Grama Panchayath, Kerala, India.

- Seminar and workshop on The use of Alternatives to animals in life science education conducted by Rajiv Gandhi Chair in Contemporary Studies, Cochin University of Science & Technology, Cochin.

## SKILLS

### Microbiology

- Basic microbiological techniques. Isolation, culturing, stocking and characterization studies of microbes employing both phenotypic and genotypic approaches. Maintenance and storage of microbial cultures. Preparation of various media to support growth of microorganisms and operation of autoclaves.
- Basic operation and maintenance of bright field and phase contrast microscopes. Basic staining techniques and performing various microbiological tests for bacterial identification. Preparation of various fungal media and fungal cultivation. Experience in bacteriophage cultivation and enumeration.

### Molecular Biology

- Basic molecular techniques. Isolation of genomic DNA – phenol chloroform method, CTAB method and boiling method; Plasmid DNA isolation using alkaline lysis method.
- Various PCR techniques - seminested PCR, Nested PCR, BOX, ERIC and ARDRA analysis. Detection of PHA synthase genes (*phaC*), virulent genes (*zot*, *ctxB* and *toxR*) etc .

## SCHOLARLY WORK AND SERVICES

- **Reviewer**, Applied Microbiology and Biotechnology (AMAB)
- **Reviewer**, African Journal of Biotechnology (AJB)
- **Reviewer**, Agricultural Research Journal (ARJ)
- **Reviewer**, African Journal of Agricultural Research (AJAR)
- **Member, Organizing Committee**, International Symposium on Biodiversity Conservation and Management.
- Serving as **Judge** in Science fair, Science seminar and Science inspire award exhibition at Sub district and Revenue district level for LP, UP, High School and Higher Secondary schools in Ernakulam District for past 8 years.
- Columnist in Kuttikalude Deepika, Children Magazine.

## OTHER SKILLS

- ❖ Knowledge of research methodologies.
- ❖ Data and information collection.
- ❖ Writing and presenting reports.

- ❖ Regional Volley ball player in JNV Games meet.
- ❖ Anchor and Interviewer in 3 Television channels.
- ❖ Diploma holder in Yoga and completed course of Massaging.
- ❖ Recognizes a exuberant performer in Volley ball event conducted in ALBATROS 2004 at AVS college of Arts and Science, Salem.
- ❖ Recognizes a exuberant performer in Foot ball event conducted in ALBATROS 2004 at AVS college of Arts and Science, Salem.
- ❖ Secure First place for Film Review competition in KELI 2009, The Cochin University Youth Festival held at Cochin University campus from October 6-10, 2009.
- ❖ Secure Third place for Short Story writing competition in KELI 2009, The Cochin University Youth Festival held at Cochin University campus from October 6-10, 2009.
- ❖ Secure Second place for Malayalam Essay competition in SARGAM 2010, Cochin University Youth Festival held at Cochin University campus from March 16-20, 2010.
- ❖ Secure Second place for Film Review competition in SARGAM 2012, Cochin University Youth Festival held at Cochin University campus from March 1-5, 2012.

## REFERENCES

### 1. Prof. (Dr). M. Bhasi

Hon. Director  
Centre for Science in Society (C-SiS)  
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### 2. Dr. Anita Das Ravindranath

Director (RDTE)  
Central Coir Research Institute  
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Alappuzha, Kerala  
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I hereby declare that all information is true to the best of my knowledge and belief.

Place: Alappuzha

Date: .....

**ABESH REGHUVARAN**