Dr. ARUN SASI..

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"Relinquishing all Dharmas taken refuge in Me alone; I will liberate these from all Sins; grieve not".

Dans les champs de l'observation, le hasard ne favorise que les espritspréparés.(In the field of observation, chance favors only prepared minds.).

I'm driven by a strong desire to succeed and am an adept leader who seeks a position within a progressive.

OBJECTIVE

As a recent post graduate in general microbiology, intend to build a career with a leading corporate of Hi-tech environment with committed and dedicated people, which will help me to explore myself fully. Willing to work as a key player in challenging and creative environment.

AREA OF INTEREST

Research & Development, Quality control – Microbiology, Food Microbiology.

EXPERIENCE

01. Quality control Microbiologist - G .K .F. C. Pvt. Ltd iso 90001-2008 (January 2018 to till)

Prepare various microbial media and cultivation of microbes using standard microbiological methods.

Perform identification of microorganisms by microscopic examination of physiological, morphological and cultural characteristics.

Perform antibiotic sensitivity tests for different microorganisms.

Can maintain proper aseptic conditions and records of the works performed.

Performing a wide variety of microbiology, chemistry or biochemistry testing to support utilities, raw material, in process

Isolation and identification of organisms grown from test samples

Analysing validation samples according to validation protocols and investigational samples as directed

Preparation of reagents, media and solutions for test usage. Includes operation of autoclave for media/equipment preparation and disinfection

Conducting of microbiological tests using various methods such as direct plating, pour plate, membrane filtration and other potential rapid micro methods such as ATP / PCR .

Evaluation of test results including understanding, identification and troubleshooting of contaminants identified as part of the testing process

Determining sampling strategies and test methodologies for ingredients, intermediates and finished beverages. This may include strategies tomeasure/monitor sanitation practices, environmental conditions (air quality, water quality), and production validation

Reviewing co-workers/analyst documentation

Ensuring that all Quality Systems within the department are adhered to on a daily basis

Knowledge of Aseptic technique, GLPs, GMPs,

Use Microsoft Office applications such as Word, Excel, & Outlook

Work occasional overtime and weekends to support business needs

Knowledge of FSMS, HACCP and FSS rules and regulations

02.Quality control Mycologist/ bacteriologist -The Central Plantation Crop Research Institute regional station Kayamkulam. (September 2013 to December 2017).

Maintain records of the conduct and outcome of laboratory analysis

Performing Root wilt ELISA

Isolation and identification of bacteria and fungi from collected samples

Preparation of different bacterial and fungal media for lab work

Preparation of antigen for Elisa

Preparation of biological samples

Preparation of reagents for Elisa, SDS-PAGE, Electrophoresis, soil isolation

Collecting soil, leaves , water samples , Environment analysis for project studies

Field work: identification pests from different plot

Collection of samples

Preparation of buffers and reagents for antigen preparation.

Live animal handling.

03.Associate professor in microbiology /research scholar -(J. J College of arts and science ,Pudukkottai (June2006 to June 2013).

Conducting class for both graduate and post graduate students

Project guide for Post graduate studies

Isolation of fungi from marine derived sponges

Diversity studies for marine derived fungi

Submerged fermentation of enzymes

Conducting seminar for students and farmers

Maintains of class rooms

Diversity of east coast and west coast region

04.Quality controller chemist and Microbiologist- THE UB GROUP/ Sprit division /Mc Dowells – (June 2005- June 2006).

Media preparation for bacterial and fungal cultures.

Serial dilution method for bacterial cultures.

Pouring, plugging, slant preparation and streaking on plates.

Subculturing of microbes.

Antibiotic sensitivity tests.

Different staining techniques.

Bacteriology of water

EDUCATIONAL QUALIFICATIONS

S. No	Degree	Discipline	College/University	Title of the thesis	year
01.	Ph.D.	Microbiology	JJ College of Arts and Science/ Bharathidasan university	*A study on Diversity and the Production of Enzymes by Marine Derived Fungi"*	April 2013
02.	MS.c	General Microbiology	DR.N.G.P Arts and Science College/ Bharathidasan University	*Optimizing the condition of Glutamic acid production by Corynebacterium glutamicum*	April 2005
03.	BSc	Industrial Microbiology (Microbiology/ Chemistry/ Zoology)	MSM College/Kerala university	*Industrial Production of Scotch Whiskey a Case Study*	April 2003

04.	DCA	Diploma in computer application	Apple computers	*Ms office/Ms word 2010*	April 2009

LABORATORY EXPERIENCE

s.no	Laboratory technique	Experience
01.	fermentation technique	8y
02	Submerged fermentation	10y
03	Inoculum preparation	15y
04	sterilization	15y
05	Quality control(Water, food, Cashew &milk)	2y
06	Biochemical testing	6y
07	hematology	6y
08	Mass cultivation	10y
09	Cultural maintains	12y
10	Rootwilt ELISA	6y
11	Sample collection	
	1.Agriculuture	6y
	2.soil	10y
	3.marine	7y
	4.food & diary	5y
	5.water	10y
12	Waste water treatment	1y
	01.Dye degradation	1y
	02. Recycling	1y
	03. Ink degradation	1y
13	Live specimen handling	4y
	Antigen production (Rattus norvegicus)	
14.	Environmental and Utility Monitoring	8y
	Utility Sampling WFI Clean Steam and Compressed Gas SOPs, analysis performed in laboratory any out of specification results are investigated according to site procedures. Assisting with Laboratory investigations high standard of housekeeping and safety is maintained in the laboratory .Performing	

15.	Purification of enzymes	3y
16.	Application of enzymes	2y
17.	Aminoacids 1.L-glutamic acid	1y
18.	Biochemical analysis	5y
19.	Biodiversity	5y
20.	Mycology 1.isolation and identification fungi 2.culutural 3.purification	8y
21.	Media preparation	12y
22.	Stock preparation	3y
23.	Bio Pest control	4y
24.	Surveillance of root wilt	4y
25.	Root feeding	4y
26.	Pollan germination	2y
27.	Field study	4y

INSTRUMENTAL KNOWLEDGE

Sl no	**Instrumental knowledge**	**Years/m**
01.	Electron microscopy	5m
02.	Dark field microscopy	6y
03.	Fluorescence microscopy	7y
04.	High performance liquid chromatography	4y
05.	Fermenters(large scale/small scale)	12y
06.	ELISA READER	8y
07.	Spectrophotometer	12y
08.	Microcentrifuge	12y
09.	Ultra centrifuge	6y
10.	Low speed centrifuge	8y
11.	Polymerase chain reaction	3y
12.	SDS-PAGE	2y
13.	Chromatography (Paper/thin layer)	5y
14.	Ion exchange	1m
15.	Gas chromatography	1m
16.	Autoclave	15y
17.	Incubators	15y

18.	Electrophoresis	4y
19.	Colony counter	15y
20.	Laboratory animals(rat and rabbit)	3y

RESEARCH ARTICLES

Sl no	
01.	**Arun Sasi**, Manthirikani.S, Jagadeesh.G, Ravi kumar.M, Submerged fermentation of amylase enzyme by *Aspergillus flavus* usingCocosnucifera meal ,*Kathumandu University Journal of Science,engineering and Technology ,Vol.6,No.II,nov 2010 ,pp 75-87*
02.	**Arun Sasi**, ManthiriKani.S,Panneerselvam.A, Jagadeesh.G, Muthu .K and Ravikumar.M, Optimizing the Conditions of α-amylase by an Estuarine *Aspergillus sp , African journal of Microbiology Research* Vol. 4 (8), pp. 581-586, 18 April, 2010
03.	**Arun Sasi**, ManthiriKani.S,Jagadeesh.G ,Ravi kumar. M, Isolation and Enumeration of Myco-symbionts of *Leucosolinia*along the East coast of Tamil Nadu, India, *Asian Journal of Microbiology, Biotechnology and Environmental science.* issue No.(4).2009:907-912.
04.	**Arun Sasi**,Yoganath.B, Bhagyaraj.C and Chanthuru.A,2009, Optimizing the Conditions of L-Glutamic acid by *Corynebacterium gulutamicum, Asian Journal of Microbiology, Biotechnology and Environmental science.* Vol.11 issue No.(1):185-188.
05.	**Arun Sasi,** R. Bhakyaraj, N. Yogananth, A. Chanthuru and M. Ravikumar. 2009. Effective Production of Biomass of *Aspergillus sp* Using Different Oil cakes .*Research Journal of Biological Science.* 1:(3)168 – 177.
06.	**Arun Sasi,** R. Bhakyaraj, N. Yogananth, A. Chanthuru and M. Ravikumar. 2008. Production of α-amylase Enzyme in Submerged Fermentation by Using *Bacillus* sp. *Research Journal of Biological Science*. 1: 50 – 57.
07.	R.Bhakyaraj, **Arun Sasi**,N. Yogananth, A.Chanthuru, 2008, Prevalence of Microbial Inhibitants from Cowshed and its Control *Research Journal of Biological Science* 1, 33-37
08.	Chanthuru, A., N. Yogananth, R. Bhakyaraj, **Arun Sasi** and S. Palanivel. 2008. Studies on Production of Antibiotic from Tsunami soil Isolates of *Streptomyces*sp at Velanganni, Nagapattinam District. *Research Journal of Biological Science.* 1: 38 – 43.
09.	**Arun Sasi**, ManthiriKani.S, and Ravikumar.M,Optimization, Production and Purification of Cellulase Enzyme from Marine *Aspergillus flavus, African Journal of Microbial Research vol.6,*Sept 2011
10.	**Arun Sasi**, ManthiriKani.S, and Ravikumar.M, Submerged Fermentation of Amylase Enzyme by *A.niger*using Agricultural Waste Products African Journal of Pure and Applied Chemistry vol.11 ,April 2012
11.	**Arun Sasi** ,Manthirikani.S,Jagadesh.G and Remesh.N,2011 Submerged Fermentation of Lipase Enzyme from *Aspergillus fumigates, Research journal of Biological Science* II(3) .44—55.
12	**Arun Sasi** ,Shanthi, V., H. Rojabegam, N. Yogananth, R. Bhakyaraj, A. Chanthuru and. 2008. Rapid *in vitro* propagation of medicinally important *Rhinacanthusnasutus* (L.) Kurz., and screening for its antibacterial activity. *Research Journal of Biological Science.* 1 (2): 114 -119.

13.	**Arun Sasi**, ManthiriKani. S, Ravikumar.M ,Submerged Fermentation of Amylase Enzyme by *A.oryzae* Using Coconut Nucifera Meal *African journal of biochemistry researchvol.08 ,*Sept*2012*
14.	**Arun Sasi** , ManthiriKani. SRole of Heavy Metals in food chain, Environmental Pollution on low Vertebrates like Eutroplus in Estuaries and Brackish Water , *African journal of environmental science vol.07,*Feb 2012
15.	**Arun Sasi**, ManthiriKani. S,Ravikumar.M Optimization, Production and Purification of Cellulase Enzyme from Marine *Aspergillus flavus ,African Journal of Microbiology Researchvol.8,*Sept2012
16.	**Arun Sasi**, ManthiriKani.S, Ravikumar.M .,Submerged Fermentation of Amylase Enzyme by *A.niger* Using Agricultural Waste Products, *African Journal of Biotechnology* ,*Vol.10,* Oct2013
17.	**Arun Sasi,** Submerged Fermentation of Cellulase Enzyme by *Aspergillus flavus* using Agriculture Waste Products-Ginglly waste (Oil cake)extract*African journal of pure chemistry vol.5,*Sept 2013
18.	**Arun Sasi** , Submerged Fermentation of Xylanase Enzyme by *A.niger* using Agricultural Waste Products , *Brazilian journal of microbiology v*ol (4) ,pp : 198-206,2011
19.	**Arun Sasi** ,Isolation and Enumeration of Mycosymbionts of *Chalina* along the East Coast of Tamil nadu,India, *Asian Journal of Microbiology, Biotechnology and Environmental science.* issue No.(5).2011:1020-1028.
20.	**Arun Sasi** ,Isolation and Enumeration of Mycosymbionts along the East Coast of Tamil Nadu ,India *Research Journal of Biological Science,*Issue:5,Vol;IV,44-55.2013
21	**Arun Sasi** ,Krishna menon ,Submerged Fermentation of Cellulase Enzyme by *A.oryzae* using Agricultural Waste Products–Seasame Waste (oil cake) Extract. *songklanakarin science* issue 19 vol:VI ,2014
22.	**Arun Sasi** , Comparative Study on Cellulase Production by *Trichoderma sp* and *Aspergillus sp* Isolated from Marine Sponge *Leucosolenia* ,*Bharthidasan University Journal* vol (4),pp 200-208,June 2014
23.	**Arun Sasi** , Comparative Study on Cellulase Production by *Trichoderma sp* and *Aspergillus sp* Isolated from Marine Sponge *Leucosolenia* ,*Bharthidasan University Journal* vol (4),pp 200-208,June 2014
24.	Arun Sasi , Comparative Study on Cellulase Production by Trichoderma sp and Aspergillus sp Isolated from Marine Sponge Leucosolenia ,Bharthidasan University Journal vol (4),pp 200-208,June 2014
25.	**Arun Sasi**, Production of Cellulase Enzyme by *A.flavus* using Agricultural Waste Products – Sorghum Bran , *Letters of applied microbiology*
26.	**Arun Sasi,** Submerged Fermentation of Xylanase Enzyme by *A.flavus* using Agricultural Waste Products – Wheat Bran *, Research Journal of Biological Science,2017*

ABSTRACT

NATIONAL CONFERENCE:

1.**Arun sasi**, Kalidoss A, Ravikumar M, Chanthru, Bhakyaraj R and Yogananth N. 2008. Optimizing the conditions of L-Glutamic acid production by *Cornebacterium glutamicum*. National

seminar on "The present scenario in biodiversity, biotechnology and environment management" on 6th and 7th March, 2008.

2. Bhakyaraj, R., N. Yogananth, A.Chanthru, **Arun Sasi**, E. Sheeba, S. Palanivel and S. Parvathy. Hairy root induction and Solasodine production *in Solanum melongena* L. var. insanum (L.) Prain. National conference on Trends in Plant-Microbe Interactions, Jan 2009, held at Department of Plant Science, Bharathidasan University, Tiruchirappalli, Tamil Nadu.

3. Chanthuru, A., S. Palanivel, S. Parvathi, N. Yogananth, R. Bhakyaraj and **Arun Sasi**. 2008. Effect of Immobilized *Arbuscular Mycorrhizal* Inoculum on Growth of *Sorgum biocolor* L. Moench. National Seminar of The Present Scenario in Biodiversity, Biotechnology and Environmental Management, on 6 – 7 March, 2008, held at Department of Biotechnology, Botany and Environmental Science, J.J. College of Arts and Science, Pudukkottai, Tamil Nadu.

4. Bhakyaraj, R., S. Palanivel, S. Parvathi, **N**. Yogananth, A. Chanthuru and **Arun Sasi**. 2008. Direct Plantlet Regeneration in *Solanum nigrum* L. National Seminar of The Present Scenario in Biodiversity, Biotechnology and Environmental Management, on 6 – 7 March, 2008, held at Department of Biotechnology, Botany and Environmental Science, J.J. College of Arts and Science, Pudukkottai, Tamil Nadu.

Membership in professional bodies

Asian Journal of Microbiology Biotechnology and Environmental Science(imp:1.0)
African Journal of Microbiology Research(imp:0.8)
African Journal of Biotechnology(imp:0.6) Research
Journal of Biological Science(imp:0.4)

Different projects

- **Microbiologist -1050761128 Cpcri - Pest and disease surveillance on coconut palms by unmanned aerial vehicle (September2013-2017)**
- **Microbiologist – 1050761107 cpcri - Large-scale production of elite and hybrid seedlings of coconut forthe root (wilt) disease prevalent tract (Plan Funds of Department of Agriculture, Govt. of Kerala). 2010-2021(2013-2017)**
- **Microbiologist 1050761109 Mass production of plant growth promoting microbes and bio-control agents for sustainability of coconut based farming system (2015-2017)**
- **Microbiologist 0975833 .Media standardization for the mass multiplication of a biocontrol agent Trichoderma spirillum 2018-2020**
- **Quality control Microbiologist Cost effective bioprocess development for the production of chitinase enzyme and cellulase from selected fungal Sp 2020-2023**
- **Research scholar - JJ College of Arts and Science/ Bharathidasan University -20062010**

DECLARATION

I do hereby declare that all the particulars given herein above are true, correct and complete to the best of my knowledge and belief.

Date:2023.12.02

Place: Alappuzha DR. **ARUN SASi**