

Bio-data

1. Name : **Dr. G. VENKATESWARAN**
2. Date of Birth : **13.03.1959 (Thirteenth March Nineteen Fifty Nine)**
3. Current position and Address : Chief Scientist and Head, Microbiology & Fermentation Technology Department, CSIR-CFTRI, Mysore-570020
4. Address : Dr. G. Venkateswaran, Chief Scientist & Head Microbiology & Fermentation Technology Department, CSIR-CFTRI, Mysore-570020
- E-mail ID and Mobile No : venkatcftri@gmail.com ; venkatg@cftri.res.in
09739599259 Gender : Male

5. Educational Qualifications :

Sl. No.	Degree/Certificate	Year of Passing	Class/Grade	University/Institute	Subjects
1	Ph. D	1999	NA	University of Mysore, Mysore	Applied Botany
2	M. Phi.	1983	Thesis Highly Commended	Bharathiar University, Coimbatore.	Applied Botany
3	M. Sc	1882	'A' Grade	Madras University, Chennai	Botany
4	B. Sc	1980	Distinction	Madras University.	Botany, Zoology & Chemistry

6. Academic/Research Experience/Employment;

Sl. No.	From	To	Name of organization	Position Held
1	June-1982	Oct.1983	Erode Arts & Science College, Erode, Tamil Nadu.	Asst. Professor & Head
2	Oct-1983	Aug-1986	Sugarcane Breeding Institute (ICAR), Coimbatore	Research Associate
3	1 st Sep-1986	31 st Aug.1991	CSIR-CFTRI, Mysore	Scientist-B
4	1 st Sep-1991	31 st Aug,1996	CSIR-CFTRI, Mysore	Scientist-C
5	1 st ep,1996	31 st Dec 2000	CSIR-CFTRI, Mysore	Scientist-E-I
6	1 st Jan 2001	31 st Dec 2007	CSIR-CFTRI, Mysore	Scientist-E-II
7	1 st Jan 2008	31 st Dec 2013	CSIR-CFTRI, Mysore	Scientist-F (Sr. Prin. Scientist)
8.	1 st Jan 2014	Till date	CSIR-CFTRI, Mysore	Scientist-G (Chief Scientist)

7. Area of specialization : **Natural science, BioScience, Tissue Culture,**

Microbiology and Biotechnology

8. Honor/Awards received :

- 1) International Visiting Scientist Fellow, USA. In the year 2006 (INF, Boston, USA)
- 2) Participated in the Global Technology Forum on Food Safety 2011 on the topic **“Strategies for Effective Regulation in Food Safety”** at Singapore, Nov 2011.
- 3) Best Poster Awards: Total **09**.
- 4) **Young Scientist Award** for my Ph.D. student: Snigdha. M and G. Venkateswaran (2012) for the oral Presentation “aflatoxin uptake and transport in groundnut plants” at national seminar of plant physiology held at acharyang ranga agricultural university, Hyderabad. 12-14 December 2012.
- 5) Editor, Indian Journal of Microbiology for the last 3 years.

9. Professional Affiliations :

a) Important administrative responsibilities taken and success achieved

- i. Convener, Institute MLP/GAP Monitoring Committee, Group-4 (Food Quality and Safety), Conducted quarterly review meetings for the last 10 years
- ii. Member, Gr- III, Gr- II and Gr- I Probationary Period clearance committee
- iii. Member, Selection committee for Scientists recruitment in the Institute
- iv. Member, Selection Committee, University of Mysore for the last 5 years.
- v. Member, Institute Grievance Committee for the 3 Years
- vi. Member, Institute Library Committee for 3 Years.
- vii Academic Council Member, Thiruvalluvar University, Vellore. (Hon’ble.Governor’s Nominee) 2011- till date
- viii.Member, Board of Studies, (Food Technology), Davenagere University.Karnataka. 2013-till date
- ix Member, Board of Studies, (Food Technology), Goa University, Goa. 2017- till date.
- x Member, Screening Committee, Technology Development Board, (DST) New Delhi. 2017.
- xii Member, Project Monitoring Committee. BIRACK (DBT, New Delhi)
- xiii Member, Doctoral Committee member, VIT University, Vellore; MS University, Tirunelveli
- xiv. Member, Various Institute Committee.

b) Major events organized as leader / coordinator/Org.Secretary.

As organizing committee, I have involved in conducting National and International conferences such as

- i. 52nd 53rd, 54th & 55th Annual Conferences of Association of Microbiologist of India
- ii. 12th International Convention of Food Scientists and Technologists (IFCON-2013)
- iii. SASNET- International Conference on fermented foods at CFTRI, Mysore.
- iv. 23rd Indian Convention for Food Scientists and Technologists (ICFOST) 2014.

c) HRD Activities

- i. Faculty member for M.Sc. (Food Tech.) Course in Industrial Microbiology and Bioengineering. Theory and practical classes were conducted in specialized areas
- ii. Faculty Member for short-term courses conducted at CFTRI
- iii. I have major role in the design of curriculum of M.Sc. (Food Tech), Integrated Nutrition Biology and short term courses conducted by Food Microbiology Department.
- iv. Preparation of lecture notes, tests, practicals and *viva-voce* and assignments for the above said courses.
- v. No. of Ph. D students awarded degree 6
- vi. No. of Ph. D students at present guiding 6. (A few have been registered under AcSIR and Mysore University.
- vii. No. of M. S., B. Tech & M. Tech students guided during the report period are **45**
- viii. As resource person in Bioscience and Biotechnological area, I have been invited to many Universities and Institutes. **> 50**

d) Other notable contributions as individual achievements:

Thirty International research paper and **> 40** national research papers have been **reviewed for their suitability** for publication during the report period

Nine DST / DBT Project proposals have been reviewed for its suitability for funding.

More than **Twenty five** Internal auditing for ISO 9000:2008 (QMS) and ISO 14001 (EMS) and NABL has been carried out in the Institute.

e. Recognitions:

1. Member, Board of Appointments, University of Mysore, Mysore
2. Member, Board of Studies in Microbiology, University of Mysore, Mysore
3. Member, Board of Examiners in Microbiology, University of Mysore, Mysore
4. Member, Doctoral committee , Anna University, Chennai, Kerala University
5. Member, Board of Studies, Davangere University, Davangere, Karnataka
6. Member, Board of Examinations, Davangere University, Davangere, Karnataka
7. Central Executive Member, Association of Microbiologist of India.(Three consecutive terms) New Delhi
- 8.Life Member, Indian Yeast Group, Mysore
- 9.Vice-President, Head Quarters, Association of Food Scientists and Technologists (AFST) (I) Mysore. 2nd consecutive time , Jt. Secretary for the 2013 and presently Hon. Secretary for the year 2014
- 10.Examiner, Ph.D Thesis evaluation, M.S University, Thirunelveli, Tamil Nadu.
- 11.Chairman, Board of Examiners for Ph.D in Microbiology & Biotechnology
- 12.Member, Academic Council, Thiruvalluvar University, Vellore, Tamil Nadu (2013-16)

Governor's Nominee

10. (a) Number of publications : 35 + 3 under communication

In SCI Journal (By Google Scholar search)

Papers published	:	35
Total Impact factor	:	70
Total number of citation	:	270
Highest impact factor of the published journal	:	6.93
Highest citation for single paper	:	62

(b) List of 5 best publications of last 10 years

Sl. No.	Title of the paper	Impact factor	Citation
01	U.S. Kadami, D.R. Balasubramanian, U. R. Ganni, M. Balaraman and G. Venkateswaran. (2007) . In vitro studies on liposomal amphotericin B obtained by supercritical carbondioxide-mediated process. Nanomedicine, nanotechnology, Biology and Medicine 3 : 273-280	6.93	27
02	Mamatha S S, Ravi R and Venkateswaran G (2008) . "Medium optimizations of Gamma linolenic acid production in <i>Mucor rouxii</i> CRF-G15 by RSM". Food and bioprocess technology .1:405-409.	4.115	26
03	Nisha A, Venkateswaran G (2009) . Effect of culture variables on mycelia arachidonic acid production by <i>mortierella alpina</i> . Food and bioprocess technology . 4, 120-136.	4.115	12
04	P. Hariprasad, P. Duraivadivel, M. Snigdha and G. Venkateswaran (2013) . "Natural occurrence of aflatoxin in green leafy vegetables" Food Chemistry . 138 1908-1913.	3.867	05
05	Nisha K. Udaya Sankar G. Venkateswaran (2012) Supercritical CO ₂ extraction of <i>Mortierella alpina</i> single cell oil: Comparison with organic solvent extraction. Food chemistry .vol 133 (1) 220-226.	3.867	08
06	T.V. Logaraj, Suvendu Bhattacharya, K. Udaya Shankar and G. Venkateswaran (2008) Rheological behaviour of emulsions of avocado and watermelon oils during storage. Food Chemistry ,106, 937-43	3.867	16

11. Number of patents granted/applied for : 08 Nos

Patents filed and granted:

Sl. No.	Title	Country/Countries	Filed on (Patent No. & Date)	Granted on (Date)	Names of the other inventors
1	An enzymatic process for the preparation of spice oil	India	237384 WO29950 63953,	2010	TR. Shamala, HK. Manonmani, G Venkateswaran K. Sampathu and N. Krishnamurthy
2	An improved process for the enzymatic extraction of ginger oil.	Sri Lanka & PCT	14646 2004	30.04.2009.	TR. Shamala, HK. Manonmani, G. Venkateswaran K. Sampathu, N. Krishnamurthy Richard Joseph
3	Emulsion Gel containing polyunsaturated fatty acids for health benefits	India	2009/DEL /2009		Logaraj, T.V., Udaya Shankar, K., Venkateswaran, G. Suvendu Bhattacharya
4	A process for the bioavailability of phosphorus in the poultry feed by phytase enzyme	India	605/DEL/ 2006		B. S. Gunashree G. Venkateswaran
5	A method for preparation of lyposomal amphoterecin B using super critical CO ₂ mediated process	India	DEL No.268-2006		Udaya Shankar. K., Subramanyan, Usha Rani. G., Manohar, B., Ramesh and Venkateswaran G
6	A process for an improved poultry feed formulation using <i>Rhodotorula gracilis</i> as carotenoid source	India	DEL No. 318/ 2002		G. Venkateswaran
7	A process for production of catalase enzyme using <i>Saccaromyces cereviseae</i>	India	1264/DEL /97.		G.Venkateswaran, S. C, Basappa, Renu Agrawal, Prakash M. Halami.
8	A process for production of hybrid yeast enriched with PUFAs	India	2440/DEL /97.		G. Venkateswaran Richard Joseph.

12. Dissertations supervised:

(c) Ph. D : **12** (Awarded: **6**; theses to be submitted: **6**)
PDF : **02**

(d) Post Graduation : 45

Total career profile with significant contribution in academic, R&D services highlighting managerial role played. (Total Research Experience: 30 Years)

I joined as Scientist-B in the year 1986 and obtained Ph. D during my career in the year 1999 from Applied Botany faculty, University of Mysore, Mysore.

My research career so far, mainly focused on four major areas: (i) Microbial lipid metabolisms (ii) Microbial pigments (iii) Microbial enzymes and (iv) Mycotoxins with special reference to aflatoxins

Significant contributions have been achieved in the following basic and applied research

As Project Leader and Member of more than 12 projects they are:

- Biotechnological approaches for the production of PUFAs with special reference to GLA from microbial source.
- Production of specialty lipids from *Mortierella alpine* and *Mucor rouxii* CFRG15
- Identification of Aflatoxins in the rhizosphere and rhizoplanes of commercial plants(groundnut, rice, & maize and their uptake and accumulation in the plant parts
- Microbial fermentation for bioactive compounds, toxin detection, preservation of fermented foods and mining genes for industrial application.
- Health Foods from Nutraceuticals
- Development of sustainable processes for edible oils with health benefits from traditional and new resources
- Wellness through foods and nutraceuticals

Obtained funded project from CSIR and DBT (CSC Network Project)

Served as Internal auditor for ISO: 9000; ISO: 14000(EMS) and NABL activities in the Institute for the last 15 years.

So far 12 Ph. D candidates registered in that **05** have been awarded **07** in progress

Obtained ICMR Projects for students and they are perusing their Ph. D Degrees in Biotechnology.

Supervised two PDF students (DBT & UGC)

Made Research publications in peer reviewed journals more than **35**

Many DST/DBT project evaluation for suitability for funding and morethan15 International and 20 National review of research papers have been carried out

Member & Chairman of many Institute and University committees

Faculty member in number of Short-term Courses and M. Sc. (Food Tech) courses)

Resource persons in the area of Microbiology and Biotechnology in many Universities and Institutes.

(G.Venkateswaran)

Place: CSIR-CFTRI, Mysore-20

Date: 21.07.2017