

Curriculum Vitae

Name : K.S.M.S. Raghavarao
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Education

B.Tech (Chemical Engineering)	1981	Andhra University, Vizag.
Ph.D (Chemical Engineering)	1987	ICT, Mumbai (Formerly UDCT).
Post-Doctoral Research	1988	NIST, Boulder, USA.
Sabbatical Research (1 & ½ Yrs)	1997/98	Univ. of Colorado, USA.

Research Experience

1987 Mar - 1988 Dec	Research Associate, ICT, Mumbai.
1988 Jan - 1988 Oct	Guest Scientist, NIST, Boulder, USA.
1988 Dec - 1989 Dec	Research Associate, UICT, Mumbai.
1990 Apr - 1990 Sep	Associate Lecturer, NITW, Warangal
1990 Oct - Till date	Scientist C, E1, E2, F & G, CFTRI, Mysore.
1997 Apr - 1998 Nov	DBT Fellow, Univ. of Colorado, USA.
2002 Dec - 2012 Aug	Head, Dept. of Food Engg., CFTRI, Mysore
2010 Oct – 2019 Sept	Chief Scientist, Dept. of Food Engg., CFTRI, Mysore
2019 Oct – Till Date	Director, CSIR-CFTRI, Mysore

Research Outcome

International Publications	171	International Patents	28
Book/Volume Chapters	22	Indian Patents	55
Ph.D Programmes completed	20	Processes Developed	23
Ph.D Programmes in progress	03	Processes Transferred to Industry	14(60)
Master's Programmes completed	32	National Publications	20

Field of Specialization:

Chemical Engineering
Food Engineering
Biotechnology (Downstream Processing, Bioreactor design).

Career interest/ Research areas

The research work is basically the application of principles of Chemical Engineering for process and product development in area of Food Process Engineering as well as Food and Biotechnology.

i. Novel Membrane Processes for the production of Liquid Concentrates

To overcome the drawbacks of RO, osmotic membrane distillation and direct osmosis are being developed for the concentration (above 60 °Brix) of fruit juices and natural colors.

ii. Downstream Processing of Proteins/Enzymes

An integrated approach to downstream processing for various proteins/enzymes is being developed successfully addressing the constraints on large scale.

iii. Design and Development of Equipment

a. *Machinery for traditional Indian foods*: Design and development of machinery for continuous production of Indian traditional foods.

b. *Bioreactors*: Bioreactors are being designed for solid-state fermentation and hairy root cultures, achieving high productivity.

iv. Drying and Dehydration

a. *Spray drying, Fluidized bed drying*: Field assisted drying of heat sensitive food and biomaterial (IR, Microwave, Acoustics and RF).

b. Osmotic Dehydration

v. Process & Product Development:

Various value added products from coconut such as virgin coconut oil, whole coconut milk powder, Phycocyanins Betalains, Anthocyanin, Bromelain, tender coconut water concentrate, etc.

Awards

- 2015 VASVIK Industrial Research Award in the area of Biological Sciences and Technology (VASVIK)
- 2015 Distinguished Alumnus Award (Research Category), ICT, Mumbai (UAA-ICT)
- 2015 Fellow of AP Academy of Sciences, India (FAPAS)
- 2014 Fellow of the Indian Academy of Science, Bangalore (FASc)
- 2013 Fellow of the National Academy of Engineers, India (FNAE)
- 2013 Fellow of the National Academy of Agricultural Sciences, India (FNAAS)
- 2012 Fellow of the National Academy of Engineers, India (FNAE)
- 2012 Fellow of Association of Food Scientists and Technologists, India (FAFSTi)
- 2010 Institution of Engineers (India) Platinum Jubilee Award in Chemical Engineering.
- 2010 Fellow of the Institution of Engineers, India (FIE).
- 2008 NASI-Reliance Industries Diamond Jubilee award
- 2010, 2007, 2005, 2004 CFTRI Foundation award for best technology transferred to industry.
- 2006 National award, Ministry of Agriculture for research on Value addition to Coconut.
- 1997 DBT, Govt of India, Longterm overseas fellowship
- 1987 Indo-US joint research fellowship

Membership in Committees

- Research Advisory Committee (RAC) Member of M/s. Richcore Biotech, Bangalore.
- Program Advisory Committee (PAC) Member of DST, DRDO, MFPI, CDB.
- Quinquennial Review Team (QRT) Member of CIFT, Cochin an ICAR Institution
- Member of editorial board for the journal of Biotechnology Advances
- Associate editor of ACES (Advances in Chemical Engineering Science), published by SCIRP (Scientific Research Publishing).
- Associate editor of the Journal Food Biology published by scholar journals
- Member of editorial board for the journal, CyTA- Journal of Food, published by Taylor & Francis.
- Member of Board of Studies in Chem. Engineering (RV Engg. College, Bangalore) & in Biotechnology, University of Mysore
- Member of Advisory committee of DBT-HRD programme at Dept. of Biotechnology, University of Mysore.