

## CURRICULUM VITAE OF DR. Y. SUDARSAN

1. Name in full Yemmanur Sudarsan
2. Designation Professor
3. Date of Birth May 27, 1960
4. Address for correspondence Institute of Agri-Business Management  
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### 5. Educational Qualifications

| Degree | Year | University   | Division  | Subjects                      |
|--------|------|--|---|-------------------------------|
| B.Sc.  | 1979 | Sri Venkateswara University, Tirupati  | FIRST   | Botany, Zoology and Chemistry |
| M.Sc.  | 1981 | University of Hyderabad, Hyderabad   | FIRST   | Biochemistry                  |
| Ph.D.  | 1999 | National Sugar Institute, Kanpur (Chhatrapati Sahuji Maharaj University, Kanpur) | Title of thesis : Studies on Microbial Treatment of Effluents from Sugar Factory and Distillery |                               |

### 6. Employment

| From/To                       | Post                | Place                                      | Job Description   |
|-------------------------------|---------------------|--|---|
| November 1982 to March, 1985  | Biochemist          | Konkan Krishi Vidyapeeth, Dapoli           | Research work on plant tissue culture for clonal propagation of fruit crops |
| September, 1986 To July, 1999 | Assistant Professor | Rajasthan Agricultural University, Bikaner | Research Work on Drought Evaluation of Pearl Millet Genotypes               |
| July, 1999 to August, 2008    | Associate Professor |  | Teaching and guiding of students  |
| September, 2009 till date     | Professor           |  |   |

### 7. Publications

#### A. Book Chapters

| Authors   | Title of Chapter   | Title of the Book  | Page and Publishers   |
|---|--|--|---|
| <b>Y. Sudarsan</b> and P K Agrwal                         | Anaerobic Treatment of Methanogenic Bacteria Treated Distillery Spent Wash by Ammonifying Bacteria | Application of Biotechnology in Molasses Based Industries, Trends and Prospects. Editor – V.K. Jain                | 311-314, Wisdom Publishers, New Delhi (ISBN: 81-900970-9)     |
| <b>Y. Sudarsan,</b> RK Kakani and RC Sharma               | Mothbean Nutritional Quality   | Mothbean in India (Eds. D. Kumar and N.B. Singh)   | 147-157, Scientific Publishers, Jodhpur (ISBN: 81-7233-311-0) |
| Nimisha Sharma, Govind Singh and <b>Yemmanur Sudarsan</b> | Microbial Diversity: Estimation and Exploration for Agricultural Sustainability                    | Microbial Diversity: A Boon for Agriculture Sustainability, (Eds. Asha Sinha, Sweta Srivastava and Ravindra Kumar) | 9-22, Biotech Books, New Dlehi (ISBN – 9788176223416)         |

B. Research Papers

| Authors  | Title   | Journal                                       | Year, Vol. & Page       | NAAS rating (2016) |
|--|---|---|-------------------------|--------------------|
| P.K. Bhatia and <b>Y. Sudarsan</b>   | Water Use Efficiency in Pearl Millet  | Annals of Arid Zone                           | 1992, 34(4), 305-06     | 2.62               |
| Y. Sudarsan  | Evaluation of Pearl Millet Genotypes for Drought Response   | The Madras Agricultural Journal               | 1995, 82(1), 58-59      | 3.98               |
| <b>Y. Sudarsan</b> and P.K. Agrawal  | Reduction of Distillery Effluent Colour by <i>Traemetes versicolor</i>  | Indian Journal of Agricultural Biochemistry   | 1998, 11 (1), 30-31     | 4.03               |
| Nimisha Sharma, <b>Y. Sudarsan</b> , R. Sharma and Govind Singh                            | RAPD Analysis of Soil Microbes of western Rajasthan   | Current Science                               | 2008, 94(8), 1058-61    | 6.83               |
| R.K. Jangir, R. Sharma, <b>Y. Sudarsan</b> , S. Eapen, G. Singh and A.K. Purohit           | Microwave treatment induced mutations and altered gene expression in <i>Vigna aconitifolia</i>                              | Biologia Plantarum                            | 2010, 54(4), 703-706    | 7.74               |
| Nimisha Sharma, Govind Singh and <b>Yemmanur Sudarsan</b>                                  | Assessment of microbial diversity under aird plants by culture-dependent and culture-independent approaches                 | African Journal of Biotechnology              | 2013, 12(40), 5860-68   | 4.00               |
| Nimisha Sharma, Govind Singh, <b>Y. Sudarsan</b> and Maneesh Mishra                        | Characterization of Plant Growth Promoting Traits of Bacteria isolated from Rhizosphere and Non-Rhizosphere of Pearl Millet | Biopesticide International                    | 2014, 10, 86-94         | 4.35               |
| Rizwan, M. , Soni P, Singh G and <b>Y. Sudarsan</b>  | High Frequency Regeneration Protocol of Aloe vera   | Vegetos                                       | 2014, 27(2), 127-130    | 6.04               |
| Rahul K, Imran D, <b>Sudarsan Y</b> , Sharma R, Singh G and Rizwan M                       | Genetic Variability within and Between Cucumis species through SSR markers  | Journal of Cell and Tissue Research           | 2015, 15(2), 5043-46    | 4.38               |
| Rahul Kumar Meena, M Imran, M Rizwan, <b>Yemmanur Sudarsan</b> , R Sharma and Govind Singh | Genetic Vairability Analysis within and between Cucumis species through RAPD Analysis                                       | International Journal of Tropical Agriculture | 2015, 33 (2), 1323-1327 | 3.03               |

C. Papers in conference proceedings

|                                |  |   |   |
|--------------------------------|--|---|---|
| Y. Sudarsan and P.K. Agrawal   | Some Factors Affecting Alcohol Production from Molasses                | In Proceedings of 57 <sup>th</sup> Annual Convention of Sugar Technologists Association of India                  | 1995, 573-577   |
| Y. Sudarsan                    | Distance Education in Agriculture, Issues and Opportunities            | University News, New Delhi  | 2004, 42 (30), 83-84 & 93   |
| Y. Sudarsan                    | Soil Microbial Biochemicals Optima for Sustainable Agriculture         | In Proceedings of National Training Course on Sustainable Agriculture   | February 4-5, 2005, Dir. Extn. Edn., Raj. Agril. Univ., Bikaner       |
| Y. Sudarsan                    | Non-Destructive Methods for Quality Evaluation of Fruits               | In Compendium of Lectures on Strategies for Sustainable Fruit Production in Fragile Agro-Ecosystem of Arid Region | 2005 (363-367), College of Agriculture, Bikaner                       |
| Y. Sudarsan                    | Quality Parameters for Medicinal and Aromatic Plants                   | In Compendium of Lectures of State Level Training on Medicinal and Aromatic Plants                                | March 17, 2005, Dir. Extn. Edn., Raj. Agril. Univ., Bikaner           |
| Nimisha Sharma and Y. Sudarsan | Extremophilic Microbes: Diversity and Perspectives                     | In Compendium of Lectures of Vocational Trg. Programme on Bioresources for School Children                        | 2006 (212-214), College of Agriculture, Bikaner                       |
| Y. Sudarsan                    | Systemic Acquired Resistance and its Role in Control of Plant Diseases | In Compendium of Lectures of Winter School on Recent Advances in Integrated Disease Management of Arid Region     | 2006 (243-245), College of Agriculture, Bikaner                       |
| Y. Sudarsan                    | Curriculum Design and Development at RAU, Bikaner                      | In Proceedings of Workshop for Agricultural University Faculty on Designing Curriculum for the Arising Contexts   | Vol. 2 (37-43), 2007 National Academy of Agril. Res. Mgmt., Hyderabad |

8. Externally funded Sponsored/Research Projects Undertaken

| Sl. No. | Agency   | Title of the Project   | Amount (Rs.)      | Year | Role                   |
|---------|--|--|-------------------|------|------------------------|
| i.      | Indian Council of Agricultural Research                        | Experiential Learning on Value Addition of Fruits and Vegetables   | 40.00 lakhs       | 2008 | In-charge              |
| ii.     | Department of Biotechnology, Government of India               | Biotechnological Interventions for Sustainable Income and Employment Generation in rural desert of Rajasthan           | 13.06 lakhs       | 2008 | Co-Investigator        |
| iii.    | Department of Biotechnology, Government of India               | Utilization of <i>Khara Lana</i> and Date Palm for Bioremediation of Salt Affected and Water logged Soils of Rajasthan | 24.67 lakhs       | 2009 | Principal Investigator |
| iv.     | <i>Rashtriya Krishi Vikas Yojana</i> , Government of Rajasthan | Molecular Indexing of Pearl Millet Genotypes for Drought Tolerance   | 129.05 lakhs wish | 2016 | In-Charge              |

9. Participation in Training/Workshop/Seminar/Symposia etc.,

| Sl. No. | Topic  | Organization   | Period                         |
|---------|--|--|--------------------------------|
| I.      | Modern Analytical Techniques in Agricultural Biochemistry                      | Punjab Agricultural University, Ludhiana                                       | July 8-17, 1987                |
| II.     | Nutritional Evaluation of Cereals and Pulses                                   | Haryana Agricultural University, Hisar   | June 20-July 9, 1988           |
| III.    | Production, Protection and Post Harvest Technology of Horticultural Crops      | Central Institute of Horticulture for Northern Plains, Lucknow                 | June 18-July 17, 1991          |
| IV.     | Agro-Forestry, Forage Production and Animal Production                         | Indian Grassland and Fodder Research Institute, Jhansi                         | Sept. 1-30, 1991               |
| V.      | Management Information System for Agricultural Research                        | National Academy of Agricultural Research Management, Hyderabad                | June 11-22, 1996               |
| VI.     | Data Communication and Networking  | CMC Limited, New Delhi   | June 24-28, 1996               |
| VII.    | Use of Computer in Agricultural Research                                       | Indian Agricultural Statistics Research Institute, New Delhi                   | October 7-17, 1996             |
| VIII.   | Networking and Biological Data Analysis  | Central Institute of Freshwater Aquaculture, Bhubaneswar                       | February 4-6, 1997             |
| IX.     | Computer Training for Agricultural Research Information Service Cell Personnel | Indian Agricultural Statistics Research Institute, New Delhi                   | August 28-Sept. 5, 1997        |
| X.      | Decision Support Systems in Agriculture  | National Academy of Agricultural Research Management, Hyderabad                | October 11-22, 1999            |
| XI.     | Techniques in Current Biochemistry Research                                    | Division of Biochemistry, Indian Agricultural Research Institute, New Delhi    | October 8-28, 2001             |
| XII.    | Use of Isotopes and Radiations in Soil-Plant Relationship                      | Nuclear Research Laboratory, Indian Agricultural Research Institute, New Delhi | October 3- November 1, 2002    |
| XIII.   | Recent Techniques in Plant Genetic Engineering and Molecular Breeding          | National Research Centre on Plant Biotechnology, New Delhi                     | November 28- December 18, 2003 |
| XIV.    | Data Driven Web Solution using Open Source Technology                          | Indian Agricultural Statistics Research Institute, New Delhi                   | Sept. 17-Oct. 7, 2005          |
| XV.     | Designing Curriculum for the arising contexts                                  | National Academy of Agricultural Research Management, Hyderabad                | March 16-19, 2007              |
| XVI.    | Immobilized Enzyme Technology for Sensors                                      | Maharshi Dayanand University, Rohtak   | August 24- September 2, 2007   |

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|--------|---|--|------------------------------|
| XVII.  | Educational Methodology and Instructional Technology  | National Academy of Agricultural Research Management, Hyderabad                | November 26-December 1, 2007 |
| XVIII. | Advances in Biotechnology   | The Energy and Resources Institute, New Delhi                                  | November 8-13, 2010          |
| XIX.   | Data Analysis using SAS   | Maharana Pratap University of Agriculture & Technology, Udaipur                | January 10-15, 2011          |
| XX.    | Computational Genome Analysis using ANVAYA  | Indian Agricultural Statistics Research Institute, New Delhi                   | June 22-24, 2011             |
| XXI.   | Science Policy and Technology Forecasting in Agriculture  | National Academy of Agricultural Research Management, Hyderabad                | January 16-25, 2012          |
| XXII.  | Applications of Genomics in Crop Improvement (equivalent to a 2-0-2 , a total of 4 credit course) | GB Pant University of Agriculture & Technology, Pantnagar                      | Dec. 27,2012- Jan 6, 2013    |
| XXIII. | Molecular Breeding Approaches for Genetic Enhancement of Millets                                  | Directorate of Sorghum Research, Hyderabad                                     | January 6-26, 2014           |
| XXIV.  | Greening of Food Processing Industries  | National Institute of Food Technology, Entrepreneurship and Management, Kundli | June 18-19, 2015             |
| XXV.   | Regulating Agricultural Biotechnology: Indian and International Perspectives                      | National Institute of Plant Health Management, Hyderabad                       | Sept. 10-12, 2015            |

#### **Addendum**

- **Fellow of Indian Society of Agricultural Biochemistry, Kanpur**
- **Life Member of Society for Plant Biochemistry and Biotechnology, New Delhi**
- **Nodal Officer for liaison with Indian Council of Agricultural Research, New Delhi**
- **Member of Task Force for Accreditation of Academic Programmes and Curricula of university**
- **Co-ordinator of Indian Council of Agricultural Research sponsored Winter School on “Strategies for Sustainable Fruit Production in Fragile Agro-Ecosystem of Arid Regions” from Nov. 9-29, 2005**
- **Director of Department of Biotechnology, Government of India sponsored “Vacation Training Programme on Bioresources for School Children” from April 3-May 2, 2006**
- **Panelist on Ecological Seminar organized by Head Quarters, 24 Infantry Division, C/O, 56 APO, Bikaner on August 26, 2006**
- **Chairman of Technical Contributory Papers session on “Cultivation Practices, Seed Bank and Model Plantation of Bio-Fuel Plants” at International Conference on Bio-Fuels Vision, 2015 organized by Engineering College, Bikaner on October 13-15, 2006**
- **Co-ordinator of National Environment Awareness Campaign sponsored by the Ministry of Environment & Forests on Climate Change vis-à-vis Food and Nutritional Security in 2010.**

- Rapporteur of National Seminar on Agri-Business Potential of Rajasthan organized by Institute of Agri-Business Mgmt, Bikaner and Indian Society of Agricultural Marketing, Nagpur in 2013
- Member of Editorial Committee for publication of Newsletter and Annual Report
- Member of Academic Council of the university
- Member of Board of Management of the university from 19.02.13 to 02.08.13
- Member Secretary of Prioritization, Monitoring & Evaluation Cell
- Member of Placement Cell of the university
- Worked as Registrar of the university from 25.02.2014 to 09.03.2014
- Nominated by the Director General, Indian Council of Agricultural Research as Member of assessment committee at National Research Centre for Seed Spices, Ajmer
- Reviewer for Journal of Dairying Foods and Home Science, Karnal
- Prepared Vision 2030 document of the university in association with other faculty
- Prepared the Self Study Report of College of Agriculture, Bikaner for accreditation
- Participated in UGC organized National Conference on *Rashtriya Uchchar Shiksha Abhiyan* (RUSA) at Delhi and prepared a Note for establishment of Higher Education Council at Bikaner
- Officer on Special Duty and Technical Advisor to Hon'ble Vice-Chancellor from 05.08.2013
- Certificate of Appreciation on Republic Day, 2010 by the Hon'ble Vice-Chancellor of SKRAU
- Certificate of Appreciation in organizing National Conference on Perspectives and Challenges towards Environmental Sustainability at SKRAU, Bikaner during December 11-13, 2015
- Chairman of Publication Committee of 25<sup>th</sup> National Conference on Natural Resource Management in Arid and Semi-Arid Ecosystem for Climate Resilient Agriculture and Rural Development (Organized at SKRAU, Bikaner in association with the Soil Conservation Society of India, New Delhi and the Directorate of Watershed Development and Soil Conservation of Government of Rajasthan from February 17<sup>th</sup> to 19<sup>th</sup>, 2016)
- Attended 14 days course (May 25-June 8, 198) on Moral and Spiritual Education at Ramakrishna Institute of Moral and Spiritual Education, Mysore
- Awarded First Prize for exhibit in Science Exhibition held during Golden Jubilee Celebrations of Government College, Anantapur in 1978

Dr. Y. Sudarsan holds first division academic record from matriculation to master's level. He qualified in Graduate Aptitude Test in Engineering (GATE)-91 in Basic Sciences & Engineering with a percentile score of 69.91. He was awarded fellowship by the Ministry of Food, Government of India through a national level test followed by interview, for carrying out research at National Sugar Institute, Kanpur leading to award of Ph.D. from Chhatrapati Shahu Ji Maharaj University, Kanpur. He supervised 11 students for Master's thesis in biotechnology, besides being member of advisory committee(s) for a number of students in their master's and doctoral thesis. In addition to being Director of Institute of Agri-Business Management, Bikaner, presently he is also In-Charge of Plant Biotechnology Centre.

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