

Name and Qualification

Name : Dr. B. SANKAR, M.Sc., M.Phil., Ph.D.
Designation : Assistant Professor & Head
Department : Department of Botany
Subject Interest : Botany
Specialization : Plant Physiology
For more Information :

DETAILS OF PROFESSIONAL AND RESEARCH EXPERIENCE (SPECIFYING PERIOD)

Assistant Professor & Head: Botany
Institute : POOMPUHAR COLLEGE (AUTONOMOUS), Melaiyur
Period : 2011 to Till Date
Teaching Areas : Botany

ACADEMIC PROFILE

Ph. D.,

University : Annamalai University, Annamalai Nagar.
Date and Place : 2009
Research Supervisor : Dr. R. Somasundaram, Reader in Botany, Annamalai University.
Title of Thesis : Regulation of growth and metabolism by paclobutrazol and ABA in *Arachis hypogaea* L. under drought condition.

M.Phil.,

University : Annamalai University
Main Subject : Botany
Year : 2005
Supervisor : Dr. R. Somasundaram, Reader in Botany, Annamalai University.
Title of Dissertation : Water use efficiency (WUE) in *Abelmoschus esculentus* L. under drought stress condition.

PG

University : Annamalai University
Main Subject : Botany
Year : 2003
Marks : 72.6%

UG

University : University of Madras
Main Subject : Botany
Year : 2000
Marks : 56 %

H.Sc.,

Board : STATE BOARD
Main Subject : PHYSICS, CHEMISTRY, BOTANY, ZOOLOGY
Year : 1995
Marks : 47%

S.S.L.C

Board : STATE BOARD
Main Subject : TAMIL, ENGLISH, MATHS, SCIENCE, SOCIAL SCIENCE.
Year : 1993
Marks : 58.4%

RESEARCH PROJECTS

Completed

Funding Agency :
File Number :
Year :
Amount Received :
Title :

WORKSHOPS ORGANIZED

1. Funding Agency : ---
Date : ---
Amount Received : ---
Place : ---

RESEARCH GUIDANCE

M. Phil.,

Number of M. Phil., Scholars :-

Degree Awarded :-

Ph. D.,

Number of PhD Scholars : --

Degree Awarded : ---

Thesis Submitted : ---

Synopsis Submitted : ---

AWARDS AND DISTINCTION

1.

PUBLICATIONS - ARTICLES PUBLISHED IN JOURNALS

1. B. Sankar, C. Abdul Jaleel, P. Manivannan, A. Kishorekumar, R. Somasundaram and R. Panneerselvam. Effect of paclobutrazol on water stress amelioration through antioxidants and free radical scavenging enzymes in *Arachis hypogaea* L. *Colloids and surfaces B: Biointerfaces*, 2007; 60, 229-235.

2. B. Sankar, C. Abdul Jaleel, P. Manivannan, A. Kishorekumar, R. Somasundaram and R. Panneerselvam. Drought induced biochemical modifications and proline metabolism in *Abelmoschus esculentus* (L.) Moench. *Acta Botanica Croatica*, 2007; 66, 43-56.

3. B. Sankar, C. Abdul Jaleel, P. Manivannan, A. kishorekumar, R. Somasundaram and R. Panneerselvam. Relative efficiency of water use in five varieties of *Abelmoschus esculentus* (L.) Moench. Under water-limited conditions. *Colloids and Surfaces B: Biointerfaces*. 2008; 62/1, 125-129.

4. C.Abdul Jaleel, P.Manivannan, B.Sankar, A.Kishorekumar, S.Sankari, R.Panneerselvam. Paclobutrazol enhances photosynthesis and ajmalicine production in *cartharanthus roseus*. *Process bio chemistry*. 2007; 42, 1566-1570.

5. C.Abdul Jaleel, A.kishore kumar, P.Manivannan, B.Sankar, M.Gomathinayagam, R.Gopi, R.Somasundaram and R.Panneerselvam. Alterations in carbohydrate metabolism and enhancement in tuber production in white yam (*Dioscorea rotundata* Poir.) under triadimefon and hexaconazole applications. *Plant growth regulation*. 2007; 53:7-16.
6. C.Abdul Jaleel, P.Manivannan, A.Kishore kumar, B.Sankar, R.Gopi, R.Somasundaram and R.Panneerselvam. Alterations in osmoregulation antioxidant enzyme and indole alkaloid levels in *Catharanthus roseus* exposed to water deficit. *Colloids and surfaces B: Biointerfaces*, 2007; 59:150-157.
7. C.Abdul Jaleel, A.Kishore kumar, P.Manivannan, B.Sankar, R.Panneerselvam. Calcium chloride effects on salinity induced oxidative stress, proline metabolism and indole alkaloid accumulation in *Catharanthus roseus*. *Comptes Rendus biologiques*. 2007; 330(9), 674-683.
8. C.Abdul Jaleel, R.Gopi, B.Sankar, P.Manivannan, A.Kishore kumar, R.Sridharan and R.Panneerselvam. Alterations in germination, seedling vigour, lipid peroxidation and metabolism in *Catharanthus roseus* seedlings under salt stress. *South African journal of Botany*. 2007; 73:190-195.
9. C.Abdul Jaleel, B.Sankar, A.Kishore kumar, R.Gopi, R.Somasundaram and R.Panneerselvam. *Pseudomonas* fluorescence enhances biomass yield and ajmalicine production in *Catharanthus roseus* under water deficit stress. *Colloids and surfaces B: Biointerfaces*, 2007; 60, 7-11.
10. C.Abdul Jaleel, P. Manivannan, B.Sankar, A.Kishore kumar, R.Gopi, R.Somasundaram and R.Panneerselvam. Water deficit stress mitigation calcium chloride in *Catharanthus roseus*; effects on oxidative stress, proline metabolism and indole alkaloid accumulation. *Colloids and surfaces B: Biointerfaces*. 2007; 60(2), 110-116.
11. C.Abdul Jaleel, R.Gopi, P.Manivannan, B.Sankar, A.Kishore kumar and R.Panneerselvam. Antioxidant potentials and ajmalicine accumulations in *Catharanthus roseus* after treatment with geberillic acid. *Colloids and surfaces B: Biointerfaces*. 2007; 60(2), 195-200.
12. C.Abdul Jaleel, P.Manivannan, B.Sankar, A.Kishore kumar, R. Gopi, R.Somasundaram and R.Panneerselvam. Induction of drought stress tolerance by ketoconazole in *Catharanthus roseus* is mediated by enhanced antioxidant potential and secondary metabolite accumulation. *Colloids and surfaces B: Biointerfaces*. 2007; 60(2), 201-206.
13. C.Abdul jaleel, B.Sankar, P.V.Murali, M.Gomathinayagam, G.M.A.Lakshmanan and R.Panneerselvam. Water deficit effects on reactive oxygen metabolism in *Catharanthus roseus*; impacts on ajmalicine accumulation. *Colloids and surfaces B: Biointerfaces*. 2008; 62/1; 105-111.

14. C.Abdul Jaleel, B.Sankar, R.Gopi, M.Gomathinayagam, R.Panneerselvam. Differential responses in water use efficiency into varieties of *Catharanthus roseus* under drought stress. *Comptes Rendus Biologies*. 2008. (331/1:42-47).
15. C.Abdul jaleel, R.Gopi, A. Kishore kumar, P. Manivannan, B.Sankar and R.Panneerselvam. Interactive effect of triadimefon and salt stress on antioxidative status and ajmalicine accumulation In *Catharanthus roseus*. *Acta Physiologiae Plantarum*. 30 (2008) 287-292.
16. C.Abdul Jaleel, B.Sankar, R.Sridharan and R.Panneerselvam. Soil salinity alters growth, chlorophyll contents and secondary metabolite accumulation in *Catharanthus roseus*. *Turkish Journal of Biology*, 32(2008)79-83.
17. C.Abdul Jaleel, P.Manivannan, B.Sankar, A.Kishore kumar, R.Panneerselvam. Salt stress mitigation by calcium chloride in *phyllanthus amarus*. *Acta botanica croatica*. 67(1), 53-62, 2008.
18. P.Manivannan, C.Abdul Jaleel, A.Kishore kumar, B.Sankar, R.Somasundaram, R.Sridharan and R. Panneerselvam. Changes in antioxidant metabolism in *Vigna unguiculata* (L.) walp. by propiconazole under water deficit stress. *Colloids and surfaces B: Biointerfaces*, 2007; 57, 69-74.
19. P.Manivannan, C.Abdul Jaleel, B.Sankar, A.Kishore kumar, R.Somasundaram, G.M.Alagu lakshmanan and R.Panneerselvam. Growth, biochemical modification and proline metabolism in *Helianthus annuus* L. as induced by drought stress. *Colloids and surfaces B: Biointerfaces*, 2007; 59, 141-149.
20. A.Kishore kumar, C.Abdul Jaleel, P.Manivannan, B.Sankar, R.Sridharan, R.Somasundaram, R.Panneerselvam. Differential effects of hexaconazole and paclobutrazol on the foliage characteristics of Chinese potato (*Solenostemon rotundifolius* poir. J.K.Morton), *Acta Biologica Szegediensis*, 2006; 50, 127-129.
21. A.Kishore kumar, C.AbdulJaleel, P.Manivannan, B.Sankar, R.Sridharan, R.Panneerselvam. Comparative effects of different triazole compounds on growth, photosynthetic pigments and carbohydrates metabolism of *Solenostemon rotundifolius*. *Colloids and surfaces B: Biointerfaces*. 2007; 60, 207-212.
22. C. Abdul Jaleel, A.Kishore kumar, Paramasivam Manivannan, Beemarao sankar, Ramalingam Sridharan, P.V.Murali, Rajaram panneerselvam. Comparative effects of different triazole compounds on antioxidant metabolism of *Solenostemon rotundifolius*. *Colloids and surfaces. B: Biointerfaces*. 62 (2008) 307-311.
23. P. Manivannan, C. Abdul Jaleel, B.Sankar, Ashok Kishore kumar, R,Somasundaram, R.Panneerselvam. Mineral uptake and biochemical changes in *Helianthus annuus* under treatment with different sodium salt. *Colloids and surfaces*. 2008 62/1, 58-63.

24. Paramasivam Manivannan, C. Abdul Jaleel, Ashok Kishore kumar, Beemarao Sankar, Ramamoorthy Somasundaram, R. Panneerselvam. Protection of vigna unguiculata (L.) walp. Plant from salt stress by paclobutrazol. *Colloids and surfaces B: Biointerfaces*. 61, 2(2008)315-318.
25. P. Manivannan, C. Abdul Jaleel, B. Sankar, R. Somasundaram, P. V. Murali, R. Sridhar-an, R. Paneerselvam. Salt stress mitigation by calcium chloride in vigna radiate (L.) wilczek. *acta biologica cracoviensia series botanica*. 49, 2: 105-109, 2007.
26. P. Gobinathan, B. Sankar, P. V. Murali and R. Panneerselvam. Interactive Effects of Calcium Chloride on Salinity-Induced Oxidative Stress in *Pennisetum typoides*. *Botany Research International* 2 (3): 143-148, 2009.
27. B. Sankar, K. Karthiashwaran and R. Somasundaram. Photosynthetic pigment alteration in *Arachis hypogaea* L. in relation to varied irrigation levels with growth hormone and triazoles. *Journal of Ecobiotechnology*. 2013, 5; 7-13.
28. B. Sankar, K. Karthiashwaran and R. Somasundaram. Leaf anatomical changes in peanut plants in relation to drought stress with or without paclobutrazol and abscisic acid. *Journal of Phytology*. 2013, 5; 25-29.
29. B. Sankar, P. Gopinathan k. Karthiashwaran and R. Somasundaram. Biochemical content variation in *Arachis hypogaea* under drought stress with or without paclobutrazol and abscisic acid. *Journal of Ecobiotechnology*, 2014, 6; 9-14.
30. B. Sankar, P. Gopinathan k. Karthiashwaran and R. Somasundaram. Variation in growth of peanut plants under drought stress condition and in combination with paclobutrazol and abscisic acid. *Current Botany*. 2014, 6; 9-14.
31. B. Sankar, R. Somasundaram, P. Manivannan, A. Kishore kumar, C. Abdul Jaleel and R. Panneerselvam. Enhanced salinity tolerance of tomato (*Lycopersicon esculentum* (L.) Mill.). Plants as affected by paclobutrazol treatment. *Journal of current sciences*, 2006; 9(2):917-920.
32. B. Sankar, C. Abdul Jaleel, R. Somasundaram, P. Manivannan, A. Kishore kumar R. Sridharan and R. Panneerselvam. Influence of triadimefon on the carbohydrates metabolism of salt stressed *Abelmoschus esculentus* (L.) Moench. Seedlings. *Journal of theoretical and experimental biology*, 2006; 2, (3&4):119-123.
33. C. Abdul Jaleel, R. Gopi, P. Manivannan, A. Kishore kumar, B. Sankar and R. Paneerselvam. Paclobutrazol influence vegetative growth and floral characteristics of *catharanthus roseus* (L.) G. Do. *Indian general of applied and pure biology*, 2006; 21:369-372.

34. P.Manivannan, C.Abdul Jaleel, A.Kishore kumar, B.Sankar, R.Somasundaram, R.Sridharan and R.Panneerselvam. Drought stress induced changes in the biochemical parameters and photosynthetic pigments cotton (*Gossypium hirsutum* L.) indian journal of applied and pure biology, 2007; 22:369-372.

35. A.Kishore kumar. C.Abdul Jaleel, P.Manivannan, B.Sankar, R.Sridharan, R.Somasundaram and R.Panneerselvam. Changes in biochemical constituents under salinity in *solenostemon rotundifolius* (poir.)Morton. Indian journal of applied and pure biology, 2007; 22:223-225.

36. P. Manivannan, C. Abdul Jaleel, A. Kishore kumar, B. Sankar, R. Somasundaram, R. Sridharan and R. Panneerselvam. Changes in antioxidant metabolism under drought stress in *vigna unguiculata* (L.)Walp. Indian journal of plant physiology, 2007; 12(2)133-137.

RESEARCH PAPERS ACCEPTED FOR PUBLICATION AND UNDER REVIEW

POSTERS AND PAPERS PRESENTED IN NATIONAL AND INTERNATIONAL LEVEL

CONFERENCES & WORKSHOPS ATTENDED IN NATIONAL AND INTERNATIONAL LEVEL

1. 94th Indian science congress (January 3-7- 2000), Annamalai University, Tamilnadu, India.
2. UGC National Seminar on 'Present scenario in plant in plant science research' 2005. Department of Botany, Annamalai University, Tamilnadu, India.
3. National seminar on Recent Trends in Bioscience, (Feb 23 &24th, 2006). Vivekanandha College of arts and sciences for women, Namakkal, Tamilnadu, India.
4. National seminar on Appropriate Technologies for suitable horticulture, (20-21st Mar, 2006). Department of Horticulture, Annamalai University, Tamilnadu, India.

5. *National Workshop on Medicinal plants. (10 & 11th Mar, 2006). Department of botany, Sri Venkateswara University, Tirupati, Andhra Pradesh.*
6. *International Conference on "Biotechnology Promises and Realities", (14th – 15th July 2006) PSGR Krishnammal College For Woman, Peelamedu, Coimbatore, Tamilnadu.*
7. *National science Day-2006 'Nurture Nature for our future' (2006). Central of Advanced study in marine Biology. Parangipettai, Annamalai University, Tamilnadu, India.*
8. *UGC National Seminar on "Recent Advances in Medicinal plant reseach", (March 3rd&4th - 2007). Department of Botany, Annamalai University, Tamilnadu, India.*
9. *One Day Workshop on Placement Training and Career Development, (28th April, 2007). Department of Botany, Annamalai University, Tamilnadu, India.*
10. *UGC National seminar on "Current Trends in Environment and Biosafety" (March 8th & 9th, 2008), Department of Zoology, Annamalai University, Tamilnadu, India.*
11. *UGC National seminar on "Advances in Legume Research", (March 6th & 7th, 2008). Department of Agricultural Botany, Faculty of Agriculture, Annamalai University, Tamilnadu, India.*
12. *Prof.K.S. Sonachalam Memorial XVIII Inter-Disciplinary Research Methodology Workshop (March 10th -13th2008). Department of Economics, Annamalai University, Tamilnadu, India.*
13. *Three day workshop on "Stress Free Living" (27th to 29th January, 2011), Swamidayananda Saraswati College of Arts and Science, Manjakkudi, Tiruvarur, Tamil nadu, India.*
14. *Workshop on "Question Paper Setting" organized by IQAC, Sri Parasakthi College For Woman, Courtallam on 28th February 2011.*
15. *National Level Seminar on "Exploring Techniques in Biological Sciences", (14th – 15th December 2011). Dept. of Botany Kunthavai Naacchiyaar Govt. Arts College for Woman, Thanjavur, Tamilnadu, India.*
16. *UGC Sponsored State Level Seminar on "Frontiers in Biology" (30th – 31st January, 2012). Dept. of Zoology, Poompuhar College, Melaiyur, Tamilnadu, India.*
17. *UGC Sponsored State Level Seminar on "Economics of Life" (30th March - 2012). Dept. of Economics, Poompuhar College, Melaiyur, Tamilnadu, India.*

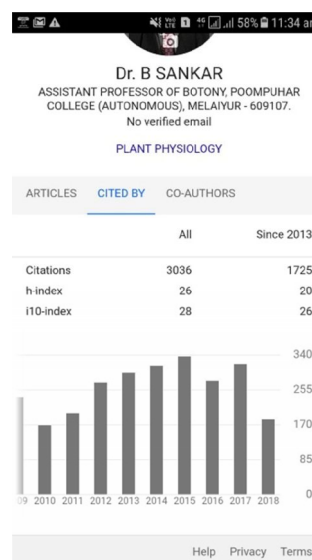
18. One day Workshop on "Quality Research Report Writing", 28th February 2014. Curriculum Development Cell, Bharathidhasan University, Trichy, Tamilnadu, India.
19. Two days National Symposium on "Recent Advances in Molecular Biology", (4th – 5th March 2014) Centre for Plant Molecular Biology and Biotechnology, Tamilnadu Agricultural University, Coimbatore, Tamilnadu, India.
20. National Conference on "Recent Trends in Bioprospecting of Plants", (28th – 29th March 2014). Dept. of Plant Science, Bharathidhasan University, Trichy, Tamilnadu, India.
21. UGC – Assisted Seminar on Emerging Trends in Plant Sciences" (6th October 2014). Dept. of Botany, A.V.C College, Mayiladuthurai, Tamil Nadu, India.
22. UGC Sponsored One day Workshop on "Effective Teaching Process", 25th March 2017. Organized by Internal Quality Assurance Cell (IQAC), Poompuhar College, Melaiyur, Tamilnadu, India.

ABSTRACTS PRESENTED IN STATE AND NATIONAL LEVEL

BOOKS PUBLISHED

CITATION INDICES DETAILS (REFER GOOGLE SCHOLAR FROM 2013-2018)

Publications	:	36
In Journals	:	
In Conferences	:	
Citations	:	3036
h-index	:	26
i10-index	:	28
Cumulative Impact factor	:	



MEMBERSHIP IN BODIES ON EDUCATION AND NATIONAL DEVELOPMENT

1.

POSITION HELD / LEADERSHIP ROLE PLAYED

INVITED GUEST LECTURES

1.

TRAINING PROGRAMME

Refresher Course in life Science I D (UGC Sponsored)

Place : Bharathidasan University Trichy

Duration : 19.06.2018-09.07.2018

Orientation Course (UGC Sponsored): Orientation Programme to Teachers

Place : Poompohar College (Autonomous), Melaiyur

Duration : 10th, 12th & 13.03.2015

Orientation Course (UGC Sponsored)

Place : Bharathidasan University Trichy

Duration : 11.11.2011-08.12.2011

Orientation Course (UGC Sponsored): Orientation Programme for College Teachers

Place : Poompohar College (Autonomous), Melaiyur

Duration : 29.08.2013 - 31.08.2013

TEACHING EXPERIENCE FROM 2011 TO TILL DATE

Total Teaching Experience : 07 YEARS
Under Graduate : 07 YEARS
Post Graduate : ----

PERSONAL DETAILS

Name : Dr. B. SANKAR
Gender : Male
Date of Birth : 06-07-1977
Age : 41
Place of Birth : Cuddalore
Marital Status : MARRIED

Residential Address : No.17 Vengadeshwara Nagar, Vellagaram
Senthankudi (Po),
Mayiladuthurai (Tk),
Nagapattinam (DT) – 609 001.

Official Address : Department of Botany,
Poompuhar College (Autonomous),
Melaiyur (Po),
Sirkali (Tk),
Nagapattinam (DT) – 609 107.

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Any other Information :