

Faculty Profile of Dr. P. Ponmurugan



Dr. P. Ponmurugan
Associate Professor
Department of Botany

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Mobile No: +9198658 57816

Research Area

- Biomedical Research
- Biodiversity Conservation
- Lichenology

Education & Career

Education

Ph.D.

Subject : Botany

Institution : UPASI Tea Research Institute, Valparai

Affiliated University : Bharathiar University

Year of Award : 2002

M.Tech.,

Subject : Biotechnology

Institution : Sathyabama University, Chennai

Affiliated University : Sathyabama University

Year of Award : 2010

M.Phil.,

Subject : Botany

Institution : A.N.J.A. College, Sivakasi

Affiliated University : Madurai Kamaraj University

Year of Award : 1997

M.Sc.,

Subject : Botany

Institution : A.N.J.A. College, Sivakasi

Affiliated University : Madurai Kamaraj University

Year of Award : 1996

B.Sc.,

Subject : Botany

Institution : A.N.J.A. College, Sivakasi

Affiliated University : Madurai Kamaraj University

Year of Award : 1994

Career**At Bharathiar University (Reverse Order)**

Associate Professor : November 2016 to Till Date

Past Experience

Head of the Department : June 2003 to November 2016 at K.S.R. College of Technology, Tiruchengode.

Research Scholar : March 1997 to May 2003 at UPASI Tea Research Institute,

Valparai.

Awards

Academic awards

Awarding agency : National Science Academy, New Delhi

Country : India

Purpose of award : INSA Visiting Scientist

Date of Award : 2nd March 2020

Awarding agency : University Grant Commission, New Delhi

Country : India

Purpose of award : Mid-Career Award

Date of Award : 1st March 2019

Awarding agency : Engineering and Medicine in Biology Society, New Jersey, US

Country : Jeju Island, Korea

Purpose of award : Best Chapter Award

Date of Award : 12th July 2017

Awarding agency : International Society for Green and Sustainable Management, Kolkata

Country : India

Purpose of award : Best Faculty Award

Date of Award : 18th Aug 2016

Awarding agency : Tamil Nadu State Council for Science and Technology

Country : India

Purpose of award : Young Scientist Award

Date of Award : 6th March 2007

Awarding agency : A.N.J.A. College, Sivakasi, Tamil Nadu

Country : India

Purpose of award : Gold medal

Date of Award :

Awarding agency : Department of Science and Technology, New Delhi
Country : India
Purpose of award : SERC FAST-TRACK Young Scientist Fellowship
Date of Award : 03 August 2007

Membership

Membership in Academic Bodies

1. Organization : Indian Science Congress Association, Kolkatta, India

Type of Membership : LM-64

Period : Life

2. Organization : National Academy of Biological Sciences, Chennai

Type of Membership : LM-007-2014

Period : Life

3. Organization : IEEE Engineering in Medicine and Biomedical Sciences, India

Type of Membership : Member#92135786

Period : Life

Membership in Professional Bodies

1. Organization : Asian PGPR Society, Auburn University, Alabama, US

Type of Membership : MN: 4563

Period : Life

2. Organization : American Society for Phycology, California, US

Type of Membership : LM No:26187

Period : Life

3. Organization : International Association of Lichenology, Nottingham, UK

Type of Membership : ILM IAL No.:16971

Period : Life

4. Organization : Precision Crop Protection, University of Bonn, Bonn, Germany

Type of Membership : UB/2014-(1)/PCP-(Pi)

Period : Life

5. Organization : Fellow of International Society of Biotechnology, Indore, India.

Type of Membership : FISBT-A/80

Period : Life

6. Organization : Society for Biotechnologists in India, Trivandrum, India

Type of Membership : L-507

Period : Life

7. Organization : Indian Society for Technical Education, New Delhi, India

Type of Membership : LM 37998

Period : Life

8. Organization : Indian Society for Lichens, Lucknow, Uttar Pradesh, India

Type of Membership : 66

Period : Life

9. Organization : Indian Society for Plantation Crops, Kasaragod, Kerala, India

Type of Membership : 602/08

Period : Life

10. Organization : Indian Society of Mycology & Plant Pathology, Rajasthan, India

Type of Membership : MPP-212

Period : Life

Visits

Sl.No. : 1

Country Visited : Germany

Duration of Visit : 3 days

Month and Year : September 2010

Purpose of Visit : Attending an International Conference on “Precision Crop Protection”

Sl.No. : 2

Country Visited : China

Duration of Visit : 5 Days

Month and Year : August 2011

Purpose of Visit : Attending an International Conference on “PGRPRs”

Sl.No. : 3

Country Visited : Thailand

Duration of Visit : 6 Days

Month and Year : January 2012

Purpose of Visit : Attending The 7th IAL Symposium on Lichenology

Sl.No. : 4

Country Visited : Singapore

Duration of Visit : 2 Days

Month and Year : August 2012

Purpose of Visit : Collaborative Project on diabetes for human beings

Sl.No. : 5

Country Visited : New Zealand

Duration of Visit : 4 Days

Month and Year : August 2012

Purpose of Visit : Attending The 12th International Trichoderma and Gliocladium Workshop

Sl.No. : 6

Country Visited : Philippines

Duration of Visit : 4 Days

Month and Year : April 2013

Purpose of Visit : Attending an Asian PGPR Congress and other microbials

Sl.No. : 7

Country Visited : Sri Lanka

Duration of Visit : 4 Days

Month and Year : December 2013

Purpose of Visit : Attending an International Conference on Biodiversity

Sl.No. : 8

Country Visited : Japan

Duration of Visit : 6 days

Month and Year : December 2014

Purpose of Visit : Attending the Tokyo International Conference on Life Science & Biological Engineering

Sl.No. : 9

Country Visited : Hong Kong

Duration of Visit : 3 Days

Month and Year : July 2017

Purpose of Visit : Collaborative Research in Science and Technology

Sl.No. : 10

Country Visited : South Korea

Duration of Visit : 5 Days

Month and Year : July 2017

Purpose of Visit : Received the Best Student Chapter Award from IEEE-EMBS Society

Sl.No. : 11

Country Visited : Malaysia

Duration of Visit : 5 Days

Month and Year : July 2019

Purpose of Visit : Attending an International Symposium on "Sustainable Development through Science and Technology

Collaborators

Others

Projects

Funded Projects(National Level)

- [Ongoing - 01](#)
 - [Completed - 12](#)
-

Major Project

1. Department of Science and Technology (DST), New Delhi.

Title of the project : Effect of biotic and abiotic factors on the growth metabolism of *Cephaleuros parasiticus*, the causal organism of red rust disease in tea plants

Funding Agency : Department of Science and Technology (DST), New Delhi.

Amount : Rs.8,76,000/-

Duration : 01-09- 2007 to 31-09-2010

2. Indian Council for Medical Research (ICMR),New Delhi.

Title of the project : Antimicrobial and anticancerous activities of lichens for biomedical applications

Funding Agency : Indian Council for Medical Research (ICMR),New Delhi.

Amount : Rs.5,64,000/-

Duration : 04-05-2009 to 04-05-2012

3. National Tea Research Foundation (NTRF), Kolkata.

Title of the project : Evaluation of *Streptomyces* spp. for the biological control of stem and root diseases of tea plants

Funding Agency : National Tea Research Foundation (NTRF), Kolkata.

Amount : Rs.14,66,400/-

Duration : 01-04-2010 to 31-04-2012

4. Indian Council for Medical Research (ICMR), New Delhi.

Title of the project : Evaluation of antioxidant properties of lichens obtained from Eastern Ghats for Biomedical applications

Funding Agency : Indian Council for Medical Research (ICMR), New Delhi.

Amount : Rs.14,24,934/-

Duration : 21-03-2011 to 21-03-2014

5. Department of Biotechnology (DBT), New Delhi.

Title of the project : Development of PGPR formulations for the management of rhizome rot disease of turmeric plants

Funding Agency : Department of Biotechnology (DBT), New Delhi.

Amount : Rs.42,71,000/-

Duration : 20-06-2011 to 21-06-2014

6. All India Council for Technical Education (AICTE), New Delhi

Title of the project : Mass production of antibiotics from *Streptomyces* spp. for biomedical applications through Bioprocess Engineering

Funding Agency : All India Council for Technical Education (AICTE), New Delhi

Amount : Rs.8,60,000/-

Duration : 01-04-2013 to 31-04-2016

7. University Grant Commission (UGC), New Delhi.

Title of the project : Evaluation of antibiotics producing *Streptomyces* spp. against rhizome rot disease in turmeric (*Curcuma longa* L.)

Funding Agency : University Grant Commission (UGC), New Delhi.

Amount : Rs.16,06,600/-

Duration : 01-07-2015 to 02-07-2018

8. National Tea Research Foundation (NTRF), Kolkata.

Title of the project : Nanobiotechnological approaches for the management of stem and root diseases of tea plants using indigenous biocontrol agents

Funding Agency : National Tea Research Foundation (NTRF), Kolkata.

Amount : Rs.12,63,600/-

Duration : 19-10-2015 to 20-10-2018

9. Science & Engineering Research Board (SERB), New Delhi

Title of the project : Development of simple with rapid protocol for identification of Lichens obtained from Western Ghats using Image processing techniques in cloud computing

Funding Agency : Science & Engineering Research Board (SERB), New Delhi

Amount : Rs.29,71,000/-

Duration : 16-03-2016 to 17-03-2019

10. Department of Science and Technology (DST), New Delhi

Title of the project : Molecular mechanism of antimutagenic and anticancerous activities of southern Indian tea catechins

Funding Agency : Department of Science and Technology (DST), New Delhi

Amount : Rs.20,50,000/-

Duration : 08-01-2016 to 09-01-2020

11. Indian Council for Medical Research (ICMR), New Delhi.

Title of the project : Bioinformatics approach for inhibition of toxic action of Russel's viper venom PLA2 by Lichen compounds validated through Albino Wistar rats model

Funding Agency : Indian Council for Medical Research (ICMR), New Delhi.

Amount : Rs.25,29,240/-

Duration : 15-02-2018 to 16-02-2021

12. University Grant Commission, New Delhi.

Title of the project : Cytogenetic and biochemical studies of Lichenic extracts on human blood cells for biomedical applications

Funding Agency : University Grant Commission, New Delhi.

Amount : Rs.10,00,000/-

Duration : 11-03-2019 to 12-03-2021

Minor Projects

1. Tamil Nadu State Council for Science and Technology, Chennai.

Title of the project : Studies on pollution tolerant semi aquatic plant Typha angustata to treat wastewater and industrial effluents

Funding Agency : Tamil Nadu State Council for Science and Technology, Chennai.

Amount : Rs.10,000/-

Duration : 1996-1997

2. Tamil Nadu State Council for Science and Technology, Chennai.

Title of the project : Analysis of carcinogenicity of food additives and dyes

Funding Agency : Tamil Nadu State Council for Science and Technology, Chennai.

Amount : Rs.5,000/-

Duration : 2001-2002

3. Tamil Nadu State Council for Science and Technology, Chennai.

Title of the project : Studies on red rust disease of tea plants in southern India

Funding Agency : Tamil Nadu State Council for Science and Technology, Chennai.

Amount : Rs.5,000/-

Duration : 2005-2006

4. Tamil Nadu State Council for Science and Technology, Chennai.

Title of the project : Analysis of pesticide residues in poultry feeds, chicken muscles and eggs using GC-MS method
Funding Agency : Tamil Nadu State Council for Science and Technology, Chennai.
Amount : Rs.5,000/-
Duration : 2008-2009

5. Tamil Nadu State Council for Science and Technology, Chennai.

Title of the project : Biodegradation of chick feathers using indigenous keratin producing microorganisms for clean Environment
Funding Agency : Tamil Nadu State Council for Science and Technology, Chennai.
Amount : Rs.6,000/-
Duration : 2010-2011

6. Tamil Nadu State Council for Science and Technology, Chennai.

Title of the project : Evaluation of Lichens as feed additives on the overall performance of Broiler chicks
Funding Agency : Tamil Nadu State Council for Science and Technology, Chennai.
Amount : Rs.10,000/-
Duration : 2012-2013

7. Tamil Nadu State Council for Science and Technology, Chennai.

Title of the project : Extraction of dyes from flowers collected from different temples of Tamil Nadu for dyeing of yarns and preparation of colouring agents as food additives
Funding Agency : Tamil Nadu State Council for Science and Technology, Chennai.
Amount : Rs.10,000/-
Duration : 2016-2017

8. Tamil Nadu State Council for Science and Technology, Chennai.

Title of the project : Estimation of triiodothyronine growth hormone residues in Chicken muscles using GC-MS method

Funding Agency : Tamil Nadu State Council for Science and Technology, Chennai.

Amount : Rs.10,000/-

Duration : 2017-2018

9. Tamil Nadu State Council for Science and Technology, Chennai.

Title of the project : Detection of formalin and quality characteristics of selected fishes from Domestic markets in Tamil Nadu

Funding Agency : Tamil Nadu State Council for Science and Technology, Chennai.

Amount : Rs.7,500/-

Duration : 2018-2019

10. Tamil Nadu State Council for Science and Technology, Chennai.

Title of the project : Assessment of malnutrition and micronutrient deficiencies among Tribal children at Marudhamalai hills of Tamil Nadu

Funding Agency : Tamil Nadu State Council for Science and Technology, Chennai.

Amount : Rs.7,500/-

Duration : 2018-2019

01. RUSA, New Delhi. (Major)

Title of the project : Value-added technology in Functional food product development

Funding Agency : RUSA, New Delhi.
Amount : Rs.5,00,000/-
Duration : 26-12-2019 to 17-06-2019

Consultancy Projects

- [Ongoing](#)
- [Completed](#)

Research Guidance

- [Post-Doc](#)
- [Ph.D.](#)
- [M.Phil.](#)
- [M.Sc.,](#)

ONGOING

Candidate Name

Title of the Thesis : *****

Date of Submission:

Date of Award:

AWARDED

1. Candidate Name : Dr. G. Saravanan

Title of the Thesis : Biochemical evaluation and antidiabetic properties S-Allyl cysteine of garlic on Streptozotocin induced experimental diabetes in rats

Date of Award: 2009

2. Candidate Name : Dr. K.M. Johnson

Title of the Thesis : Analysis of quality parameters of drinking water in Delhi

Date of Award: 2010

3. Candidate Name : Dr. K. Poongothai

Title of the Thesis : Evaluation of antidiabetic potential of field grown and tissue cultured plants of *Solanum xanthocarpum* Schard. and Wendl. on alloxan - induced experimental diabetic rats

Date of Award : 2010

4. Candidate Name : Dr. B. Mythili Gnanamangai

Title of the Thesis : Studies on *Cercospora theae*, a causal organism of Bird's eye spot disease in tea plants

Date of Award : 2011

5. Candidate Name : Dr. K. Suresh Kumar

Title of the Thesis : Molecular cloning and characterization of the gene coding for azoreductase from *Pseudomonas aeruginosa* isolated from soil

Date of Award : 2011

6. Candidate Name : Dr. R. Subashini

Title of the Thesis : Studies on the effect of *Nelumbo nucifera* on isoproterenol-induced myocardial infarction in Male Albino wistar rats

Date of Award : 2012

7. Candidate Name : Dr. M.R. Anil Kumar

Title of the Thesis : Studies on selected drinking water quality parameters from different water sources in various states of India

Date of Award : 2012

8. Candidate Name : Dr. T. Kannan

Title of the Thesis : Evaluation of commercial biofertilizers containing *Azospirillum* on the growth of cereals

Date of Award : 2012

9. Candidate Name : Dr. K.C. Rohit

Title of the Thesis : Studies on fungal microflora in Industrial effluents and their impact on some crop plants

Date of Award : 2013

10. Candidate Name : Dr. B. Bagyalakshmi

Title of the Thesis : Evaluation of Potassium solubilizing bacteria in tea fields for increased productivity and soil health

Date of Award : 2013

11. Candidate Name : Dr. S. Anita

Title of the Thesis : Evaluation of *Trichoderma* spp. isolated from southern Indian tea plantations against *Phomopsis* canker disease

Date of Award : 2014

12. Candidate Name : Dr. M. Ramya

Title of the Thesis : Molecular characterization of *Cephaleuros parasiticus* Karst, the causal agent of red rust disease in tea plants

Date of Award : 2014

13. Candidate Name : Dr. D. Saravanan

Title of the Thesis : Standardization of culturing techniques for *Cephaleuros parasiticus* Karst, the causal organism of red rust disease in tea plants

Date of Award : 2015

14. Candidate Name : Dr. B. Nithya

Title of the Thesis : Isolation, characterization and evaluation of actinomycetes from Eastern Ghats for biomedical applications

Date of Award : 2015

15. Candidate Name : Dr. Nagaraja Suryadevara

Title of the Thesis : Isolation and Molecular characterization of multi-resistant *Pseudomonas fluorescens* from turmeric fields of Andhra Pradesh

Date of Award : 2015

16. Candidate Name : Dr. V. Kanimozhi

Title of the Thesis : Field evaluation of indigenous *Pseudomonas fluorescens* for biocontrol activity against *Phomopsis* canker in tea

Date of Award : 2016

17. Candidate Name : Dr. B. Gangathra Prabhu

Title of the Thesis : The Pho PQ DNA binding protein as a potent transcription regulator in *Salmonella*

Date of Award : 2016

18. Candidate Name : Dr. V. Elango

Title of the Thesis : Evaluation of indigenous *Streptomyces* spp. for the biological control of red root disease in tea

Date of Award : 2016

19. Candidate Name : Dr. K. Kamalakkannan

Title of the Thesis : Cytotoxicity and Pharmacological evaluation of alkaloid containing medicinal plants *Limonia elephantum* and *Achranthe aspera*

Date of Award : 2017

20. Candidate Name : Dr. J. John Peter

Title of the Thesis : Expression, purification and characterization of bacterial membrane protein from *Halobacterium salinarum* and *E.coli*

Date of Award : 2017

21. Candidate Name : Dr. G. Ayyappadasan

Title of the Thesis : Studies on antioxidant properties of lichens for biomedical application

Date of Award : 2018

22. Candidate Name : Dr. S. Poornima

Title of the Thesis : Mass production of lichen mycobionts for bioactive secondary metabolites - a pilot scale study

Date of Award : 2018

23. Candidate Name : Dr. S. Kavitha

Title of the Thesis : Green synthesis, characterization and evaluation of tea leaf derived CDS quantum dots for optical and anticancer properties

Date of Award : 2019

24. Candidate Name : Dr. M. Suganya

Title of the Thesis : Molecular mechanism of proanthocyanidin mediated chitosan nanoparticles as an effective drug delivery system for colorectal cancer

Date of Award : 2019

1. Candidate Name : K. Sasikumar

Title of the Thesis : Studies on protease, lipolytic and penicillinase activities of *Bacillus* species with various sources

Date of Award : 2006

2. Candidate Name : V. Thangapandian

Title of the Thesis : Screening of multi-drug resistant *Mycobacterium* species from pulmonary tuberculosis patients

Date of Award : 2006

3. Candidate Name : B. Gangarathaprabu

Title of the Thesis : Studies on activity of prokaryotic DNA zymes

Date of Award : 2007

4. Candidate Name : T. Leelavathi

Title of the Thesis : Effect of biofertilizers on pulses crop for increased productivity and soil health

Date of Award : 2007

5. Candidate Name : B. Meyyanantham

Title of the Thesis : Genetic variation among Tamil Nadu population with reference to Mitochondrial genome

Date of Award : 2008

6. Candidate Name : K. Preetha

Title of the Thesis : Effect of nitrogen fixing bacteria on *Vigna radiata* (L.) for sustainable agriculture

Date of Award : 2008

7. Candidate Name : B. Nithya

Title of the Thesis : Survey of actinomycetes diversity in different districts of Tamil Nadu

Date of Award : 2008

8. Candidate Name : P. Sethuraman

Title of the Thesis : Effect of *Momordica tuberosa* and Endosulfan 35EC against the Filarial mosquito (*Culex quinquefasciatus*)

Date of Award : 2009

9. Candidate Name : V. Kanimozhi

Title of the Thesis : Molecular characterization of Phosphobacteria

Date of Award : 2009

10. Candidate Name : S. Meenakshi

Title of the Thesis : Analysis of clinical samples by immunological methods

Date of Award : 2009

11. Candidate Name : S. Jegan

Title of the Thesis : Production of secondary metabolites (bacteriocin) from *Bacillus* species

Date of Award : 2010

12. Candidate Name : G. Vethavalli

Title of the Thesis : In vitro multiplication of *Ocimum basilicum* and *Plumbago zeylanica* through direct regeneration

Date of Award : 2010

13. Candidate Name : R. Padmapriya

Title of the Thesis : Isolation, characterization and identification of actinomycetes from different crop soils

Date of Award : 2011

14. Candidate Name : T. Thangagomathi

Title of the Thesis : Population density and assessment of VAM in agricultural soils

Date of Award : 2011

15. Candidate Name : G. Ananth

Title of the Thesis : A Comparative study of antimicrobial activity between in vitro and in vivo plants

Date of Award : 2012

16. Candidate Name : J. Anita phoebe

Title of the Thesis : In vitro propagation of *Plumbago zeylanica* and *Ocimum basilicum*

Date of Award : 2012

17. Candidate Name : M. Balasubramanian

Title of the Thesis : Studies on phytochemical analysis of *Nyctanthes arbor -tristis* (Linn.)

Date of Award : 2012

18. Candidate Name : D. Maheswari

Title of the Thesis : Standardization of tissue culture protocol for micropropagation of *Vanilla pompona*

Date of Award : 2013

19. Candidate Name : P. Ramasamy

Title of the Thesis : Analysis of VAM colonization in southern Indian tea soils

Date of Award : 2013

20. Candidate Name : K. Ravichandran

Title of the Thesis : In vitro micropropagation and antimicrobial activity of Datura metel

Date of Award : 2014

21. Candidate Name : V. Rekhavathi

Title of the Thesis : Isolation, characterization and identification of Phosphobacteria

Date of Award : 2014

22. Candidate Name : S. Selvakumar

Title of the Thesis : Production of alkaline protease from Bacillus species

Date of Award : 2014

23. Candidate Name : P. Senthil kumar

Title of the Thesis : Studies on salt stress defense mechanism in pea plant (Pisum sativum L.)

Date of Award : 2015

24. Candidate Name : K. Sheela Subhashini

Title of the Thesis : Isolation, characterization and identification of actinomycetes from soils

Date of Award : 2015

25. Candidate Name : P. Venkateswarlu

Title of the Thesis : Computational studies using analogue and structure based drug design on metabotropic glutamate receptor subtype 1

Date of Award : 2015

26. Candidate Name : J. Merlin Seles

Title of the Thesis : Study of Saxicolous lichen diversity in Niligiris hills of Tamil Nadu, India

Date of Award : 2019

1. Candidate Name : D. P. Daamini

Title of the Dissertation : A Survey of Lichens in Kodaikanal hills of Western Ghats, Tamil Nadu, India

Date of Award : 2018

2. Candidate Name : P. Deepika

Title of the Dissertation : A Survey of Lichens in Nilgiris hills of Western Ghats, Tamil Nadu, India

Date of Award : 2018

3. Candidate Name : J. Merlin Seles

Title of the Dissertation : Comparative Nutrient Composition And Triiodothyronine Growth Hormone Residue Analysis Of Native Versus Broiler Chicken Muscles

Date of Award : 2018

4. Candidate Name : M. Charumathi

Title of the Dissertation : Detection of formalin and quality characteristics of selected fishes from Domestic markets in Tamil Nadu

Date of Award : 2019

5. Candidate Name : S. Surekha

Title of the Dissertation : Assessment of malnutrition and micronutrient deficiencies among Tribal children at Maruthamalai hills of Coimbatore District in Tamil Nadu

Date of Award : 2019

Name of the candidate : Dr. B. Nagarathnam (WOS)

Title of the Thesis : Prediction of binding sites of certain ligands for class I and class II type human olfactory receptor (ORs) subclusters, and pharmacological study for proposed drugs in mouse cell lines, preclinical trials for inhalation therapy.

Year : 2016

Research Publication

- [International](#)
- [National](#)
- [Patents](#)
- [Conferences](#)
- [Books / Book Chapters](#)
- [Database](#)

2021

70. [Attenuation of lipid metabolic abnormalities, proinflammatory cytokines, and matrix metalloproteinase expression by biochanin-A in isoproterenol-induced myocardial infarction in rats.](#)

G.Sangeethadevi, V. V Sathibabu Uddandrao., Rani Antony Rathinasamy Jansy Isabella, G. Saravanan, P. Ponmurugan, P. Chandrasekaran, S. Sengottuvelu & S.

Vadivukkarasi.

Drug and Chemical Toxicology, Pg 1-12 (2021)

69. [Monitoring the decolourisation efficacy of advanced membrane fabricated phytosilica nanoparticles in textile effluent water treatment.](#)

Mohanraj, B. Mythili Gnanamangai, Govindan Nadar Rajivgandhi, Wen-Jun Li, G. Vijayalakshmi, P. Ponmurugan, Naiyf S. Alharbi, Shine Kadaikunnan, Jamal M.

Khaled, Khalid F. Alanzi.

Chemosphere, Volume 273, 129681, ISSN00456535, (2021).

68. [A new Record of Pyrenocarpus Lichen to the Indian Biota](#)

N. Rajaprabu. P. Ponmurugan. and Gaurav K. Mishra.

Journal of Threatened Taxa 13(1);17607-17610. (2021).

2020

67. [Association of multiple fungal pathogens to rhizome rot disease of turmeric.](#)

C Chitra, M.D. Gideon, P. Ponmurugan, and N. Mathivanan,

Archives of Phytopathology and Plant Protection 53 (9-10):440-58. (2020).

66. [Effect of S-allyl cysteine against diabetic nephropathy via inhibition of MEK1/2- ERK1/2-RSK2 signalling pathway in streptozotocin-nicotinamide induced diabetic rats.](#)

V.V.S Uddandrao, B. Parim, R. amavat, S. Pothani, S. Vadivukkarasi, P. Ponmurugan,

P. Chandrasekaran, and G. Saravanan,

Archives of Physiology and Biochemistry. Pg 1-9 (2020).

65. [Biosynthesis of silver nanoparticles from Streptomyces spp., characterization and evaluating its efficacy against Phomopsis theae and Poria hypolateria in tea plants \(Camellia sinensis\).](#)

N. Karthik, P. Ponmurugan, B.M. Gnanamangai, M. Suganya, and S. Kavitha. Nano Biomedicine and Engineering 12 (3): 272-280. (2020).

64. [Biosynthesis of silica and copper nanoparticles from Trichoderma, Streptomyces and Pseudomonas spp. evaluated against collar canker and red root rot disease of tea plants.](#)

N. Karthik, P. Ponmurugan, B.M. Gnanamangai, V. Manigandan, S.P.J. Joy, C. Jayakumar, and G. Amsaveni
Archives of Phytopathology and Plant Protection. Pg 1-30 (2020).

63. [Decolourisation efficiency of immobilized silica nanoparticles synthesized by actinomycetes.](#)

R. Mohanraj, B.M. Gnanamangai, S. Poornima, V. Oviyaa, K. Ramesh, G.R. Vijayalakshmi, N. Nithya, N. Karthik, P. Ponmurugan, and J.P. Robinson. Materials Today Proceedings. (2020).

62. [Evaluation of different native Streptomyces spp. for effective management of rhizome rot of turmeric.](#)

M. Nithya, P. Ponmurugan, B.M. Gnanamangai, J.P. Robinson, N. Mathivanan, and J. Senthilkumar,
Journal of Applied Botany and Food Quality 93: 225-233. (2020).

61. [Ameliorative potential of Saudi Arabian date fruit \(Phoenix dactylifera L.\) Varieties against Freund's complete adjuvant induced arthritis in rats.](#)

S. Balakrishnan, P. Ponnusamy and V.V. Sathibabu Uddand Rao
Adv Tradit Med (ADTM) 20, 291-301. (2020)

60. [In silico analysis of various antiviral compounds against spike protein of covid 19 using docking methods.](#)

C. Shanmathi, P. Ponmurugan, N. Karthik, M. Anita, A. Ezhilarasu, A. Rohini. International Journal Of Engineering Research & Technology (IJERT) volume 09, issue 11 (2020)

59. [Antibacterial activity of lichen parmotrema spp.](#)

R. Kalidoss, G. Ayyappadasan, B. M. Gnanamangai and Ponmurugan, P. International Journal of Pharmaceutical and Biological Science Archive, 8(2).

(2020).

58. [Antimicrobial and Antiproliferative Activities of Depside Compound Isolated from the Mycobiont Culture of Parmotrema austrosinense \(Zahlbr.\) Hale.](#)

R. Kalidoss, S. Poornima & P. Ponmurugan.

Journal of Pure and Applied Microbiology. 14. 2525-2541. (2020).

57. [Molecular docking analysis data of LECANORIC ACID with CASPASE.](#)

R. Kalidoss, S. Usha, M. Sakthivel, M. Mariraj, P. Ponmurugan.

Solid State technology vol. 63. (2020)

56. [Usnea dasaea, a further new addition to the Lichen Flora of Tamil Nadu State, India](#)

M. Mariraj, R. Kalidoss, K. Shankaranarayana Vinayaka, Sanjeeva Nayaka and P. Ponmurugan.

Current Botany, 11: 138-141, (2020).

55. [Studies on population density of different bioinoculants in turmeric plantation soils for biocontrol activity.](#)

M. Nithya, P. Ponmurugan, and B. M. Gnanamangai.

International Journal of Pharmaceutical and Biological Science Archive, 8(2). (2020).

54. [Antibacterial activity OF Elaeocarpus spp: an in vitro evaluation.](#)

P. Ponmurugan, T. Parimelazhagan, A. Rajendran, P. Gurusaravanan, T. Sekar, M. Suganya and Mythili Gnanamangai.

International Journal of Pharmaceutical and Biological Science Archive, 8(1). (2020)

53. [Efficacy of Moringa oleifera's Therapeutic Compounds and its Antimicrobial Activity.](#)

Devi, Gokila, T. Nagaraja Suryadevara, Gopinath Divyabharathi, LR Venkatasathya Sai Appala Raju Velaga, and P. Ponmurugan.

Research Journal of Pharmacy and Technology 13.8: 3867-3872. (2020).

52. [Molecular characterization of Escherichia coli from chickens in poultry farms of Malaysia.](#)

Suryadevara Nagaraja, Kai Boon Yong, Sridevi Subramonie, Nanthiney Devi Ragavan Gnanendra Shanmugam and P. Ponmurugan.

2019-2004

51. [Architectural effect of different tea clones on the development of blister blight disease](#)

P. Ponmurugan, M.B. Gnanamangai, and K.M. Karunambika. Journal of Applied Botany and Food Quality 92: 7-14. (2019).

50. [Toxicity and anti-inflammatory study of Parmotrema austrosinense extract against oxozone induced intestinal inflammation in zebrafish \(Danio rerio\) model.](#)

S. Poornima, N. Nagarjun, P. Ponmurugan, B.M. Gnanamangai, and S. Narasimman.

Biocatalysis and Agricultural Biotechnology 21: 101278. (2019).

49. [Molecular docking of multidrug resistant Klebsiella pneumoniae from river water of Klang Valley, Malaysia.](#)

S. Nagaraja, Y.I. Kwan, G. Shanmugam, P. Ponmurugan B. Ganapathy, S. Subramonie, and V.S. Velaga.

Journal of Pure Applied Microbiology 13 (4): 2141-2150. (2019).

48. [Optimized production of gamma poly glutamic acid \(\$\gamma\$ -PGA\) production.](#)

R. Mohanraj, B.M. Gnanamangai, K. Ramesh, P. Priya, R. Srisunmathi, S. Poornima, P. Ponmurugan, and J.P. Robinson,

Biocatalysis and Agricultural Biotechnology 22: 101413. (2019).

47. [Fabrication of chitosan-alginate microencapsulated curcumin coated scaffold to develop novel cotton crepe bandage.](#)

B.M. Gnanamangai, M. Suganya, R. Sabarinathan, and P. Ponmurugan.

Indian Journal of Fibre Textile Research 44: 271-278. (2019).

46. [Utilization of waste tea leaves as bio-surfactant in CdS quantum dots synthesis and their cytotoxicity effect in breast cancer cells.](#)

S. Kavitha, G.B. Mythili, D. Anitha, Vijayshankar, C. Asokan, L. Matthew, P. Ponmurugan, and S. Pitchaimuthu.

Applied Surface Science 487: 159-170. (2019).

45. [Antiobesity efficacy of asiatic acid: downregulation of adipogenic and inflammatory processes in high fat diet induced obese rats.](#)

V.V.S. Uddandrao, P. Rameshreddy, P. Brahmanaidu, P. Ponmurugan, B.Santhanaraj, N.R. Ravindar, K. Swapna, S. Pothani, H. Nemani, B. Meriga, S.Vadivukkarasi, P. R. Nivedha and G. Saravanan.

Archives of Physiology and Biochemistry. 126(5):453-462 (2019).

44. [Antitumor effect of proanthocyanidin induced apoptosis in human colorectal cancer \(HT 29\) cells and its molecular docking studies.](#)

M. Suganya, B.M. Gnanamangai, B. Ravindran, S.W. Chang, A. Selvaraj, C.Govindasamy, M.F. Elsadek, and P. Ponmurugan.

BMC Chemistry Pg 13-21. (2019).

43. [Antineoplastic effect of PAC capped silver nanoparticles promote apoptosis in HT-29 human colon cancer cells.](#)

M. Suganya, B.M. Gnanamangai, P. Ponmurugan, and P. Vijayan.

Journal of Cluster Science. 30(2), pp.483-493. (2019).

42. [Asthma-alleviating potential of 6-gingerol: Effect on cytokines related mRNA expression in ovalbumin-sensitized asthma in rats.](#)

L. Zaoni, U.V.V. Sathibabu, P. Ponmurugan, B.Santhanaraj, S. Brahmanaidu, C. Vadivukkarasi and G. Saravanan,

Journal of Environmental Pathology, Toxicology and Oncology 38 (1): 41–50. (2019).

41. [Effects of asiatic acid, an active constituent in Centella asiatica \(L.\): restorative perspectives of streptozotocin-nicotinamide induced changes on lipid profile and lipid metabolic enzymes in diabetic rats.](#)

K. Swapna, V.V.S. Uddandrao, P. Brahmanaidu, R. Ravindarnaik, P. Suresh, P. Ponmurugan, B. Santhanaraj, S. Vadivukkarasi, N. Harishankar, K. Prathap Reddy,

P.R. Nivedha, and G. Saravanan, Comparative Clinical Pathology. (2019).

40. [Antiobesity efficacy of asiatic acid: downregulation of adipogenic and inflammatory processes in high fat diet induced obese rats.](#)

V.V.S. Uddandrao, P. Rameshreddy, P. Brahmanaidu, P. Ponmurugan, B.Santhanaraj, N.R. Ravindar, K. Swapna, S. Pothani, H. Nemani, B. Meriga, S.Vadivukkarasi, P. R. Nivedha and G. Saravanan,

Archives of Physiology and Biochemistry. 126(5):453-462. (2019).

39. [Biocontrol efficiency of native plant growth promoting rhizobacteria against rhizome rot disease of turmeric.](#)

C. Chenniappan, N. Mathivanan, G.M. Daniel, G.B. Ramaraj, P. Ponmurugan, J.Sekar, and V.P. Ramalingam,
Biological Control 129: 55–64. (2019).

38. [Lichen collections from Nilgiris of Western Ghats in Tamil Nadu and screening for antimicrobial, antioxidant efficacy of some selected species](#)

R. Kalidoss., J. Merlin, M. Charumathy., S. Surekha. K. Arun Prasath, M. Mariraj, M.Shenbagam., N. Rajaprabu., and P. Ponmurugan.
Pramana Research, Volume 9, Issue 6, (2019) 1364

37. [Plasma treated fabrics coated with naturally derived Ag-NPs for biomedical application.](#)

S Manjula, OL Shanmugasundaram, BM Gnanamangai, R Pavithra, S Kavitha, P.Ponmurugan.
IET Nanobiotechnology;13(4):368-375. (2019).

36. [Radical scavenging potential, anti-inflammatory and anti-arthritic activity of isolated isomer Methyl-γ-Orsellinate and roccellatol from Roccella montagnei](#)

S.Z.A. Khader S.Z.A. Sidhra, A. Thangakumar, S. Nayaka, and P. Ponmurugan.
Bulletin of Faculty of Pharmacy 56: 39-45, (2018)

35. [Green-synthesis-derived CdS Quantum dots using tea leaf extract: antimicrobial, bioimaging and therapeutic applications in lung cancer cells](#)

S. Kavitha, M. Suganya, P. Ponmurugan, C.S. De Castro, M.L. Davies, G.M. Mythili and S. Pitchaimuthu.
American Chemical Society Applied Nano Materials. 11: 1683-1693 (2018).

34. [Fabrication and characterization of chicken feather keratin/polysaccharides blended polymer coated nonwoven dressing materials for wound healing applications.](#)

O.L. Shanmugasundaram, K.S.Z. Ahmed, K. Sujatha, P. Ponnmurugan, A. Srivastava, R. Ramesh, R. Sukumar and K. Elanithi.
Materials Science Engineering C. 92: 26–33. (2018).

33. [Screening of biologically potent endolichenic fungi isolated from selected lichens habitat on silver oak tree.](#)
S. Poornima, P. Ponmurugan, M.B. Gnanamangai, G. Gayathri, K. Dheenadhayalan and G. Ayyappadasan.
Vegetos 31 (3): 89-94. (2018)
32. [Green-synthesis-derived CdS quantum dots using tea leaf extract: antimicrobial, bioimaging, and therapeutic applications in lung cancer cells.](#)
K. Shivaji, S. Mani, P. Ponmurugan, CS. De Castro, M. Lloyd Davies, MG.Balasubramanian, S. Pitchaimuthu
PACS Applied Nano Materials 1.4: 1683-1693, (2018).
31. [Modulatory effect of dianthrone, rich alcoholic flower extract of Cassia auriculatoa L.On experimental diabetes.](#)
S.Z.A Khader, S.S.Z Ahmed, S.K Balasubramanian, T.K. Arunachalam, G.Kannappan, P. Ponmurugan, and K. Ramesh.
Integrative Medicine Research 6: 131-140. (2017).
30. [Antibacterial and antioxidant activity of Parmotrema reticulatum obtained from Eastern Ghats, Southern India](#)
G. Ayyappadasan, T. Madhupreetha, P. Ponmurugan, and S. Jeyaprakash,
Biomedical Research 28 (4): 1593-1597. (2017).
29. [Antioxidant and cytotoxic activity of Tecoma stans against lung cancer cell line \(A549\).](#)
Robinson, J.P., Suriya, K., Subbaiya, R. and Ponmurugan, P.
Brazilian Journal of Pharmaceutical Sciences 53 (3): 01-05. (2017).
28. [Biosynthesised silver and copper nanoformulation as foliar spray to control bird's eye spot disease in tea plantations.](#)
B.M. Gnanamangai, P. Ponmurugan, S.E. Jeeva, K. Manjugarunambika, V. Elango, K. Hemalatha, K. Jyoti Prasad, R. Mohanraj and S. Prathap.
IET Nanobiotechnology, 11: 917-928. (2017).
27. [Potassium solubilization, plant growth promoting substances by potassium solubilizing bacteria from southern Indian tea soils.](#)
B. Bagyalakshmi, P. Ponmurugan, and A. Balamurugan
Biocatalysis and Agricultural Biotechnology 12: 116-124. (2017).

26. [Characterization of gamma irradiation absorbing compounds from lichens for biomedical applications](#)

P. Ponmurugan and G . Ayyappadasan.

Int J Radiol Radiat Ther. 3(4):264-267. (2017).

25. [Hepatoprotective Studies of Methanolic Leaf E3xtract of Barringtonia acutangula \(L\) against Carbon Tetrachloride Induced Liver Injury in Wistar Rats.](#)

Fahad Khalid, S.Balakrishnan, S. Gokulan, Khader Syed Zameer Ahamed, Ramasamy Subbaiya, Suriya Kumaresan, P. Ponmurugan..

Research J. Pharm. and Tech. 10(1): 101-107. (2017).

24. [Antihyperglycemic and anti-oxidant activity of various fraction of Parmotrema hababianum in streptozotocin-induced diabetic rat.](#)

G. Ayyappadasan, M. Amutha, S. Jeyaprakash, M. Kalaiselvi, and P. Ponmurugan,

Bangladesh Journal of Pharmacology 11: 935-939. (2016).

23. [Antifungal activity of biosynthesised copper nanoparticles evaluated against red rootrot disease in tea plants.](#)

P. Ponmurugan, K. Manjugarunambika, V. Elango, and B.M. Gnanamangai, Journal of Experimental Nanoscience 11 (13): 1019-1031. (2016).

22. [Impact of various foliar diseases on the biochemical, volatile and quality constituents of green and black teas.](#)

P. Ponmurugan, K. Manjugarunambika and B.M. Gnanamangai.

Australasian Plant Pathology 45: 175-185. (2016).

21. [Survey, distribution pattern and elemental composition of lichens in Yercaud hills of Eastern Ghats in southern India.](#)

P. Ponmurugan, G. Ayyappadasan, R.S. Verma, and S. Nayaka.

Journal of Environmental Biology 37: 407-412. (2016).

20. [Evaluation of Streptomyces spp. for effective management of Poria hypolateritia causing red root-rot disease in tea plants.](#)

V. Elango, K. Manjugarunambika, P. Ponmurugan, and S. Marimuthu, Biological Control 89: 75-83. (2015).

19. [Novel strategy for enhanced expression and purification of recombinant Bacteriorhodopsin in Escherichia coli.](#)

J.J. Peter, C. Chellaram, and P. Ponmurugan.

Research Journal of Biotechnology 10 (5): 55-61. (2015).

18. [Modulatory effects of diosgenin on attenuating the key enzymes activities of carbohydrate metabolism and glycogen content in Streptozotocin-induced diabetic rats.](#)

G. Saravanan, P. Ponmurugan, M.A. Deepa, and B. Senthilkumar.

Canadian Journal of Diabetes 38: 409-414. (2014).

17. [Anti-obesity action of gingerol: effect on lipid profile, insulin, leptin, amylase and lipase in male obese rats induced by a high-fat diet.](#)

G. Saravanan, P. Ponmurugan, M.A. Deepa, and B. Senthilkumar

Journal of Science, Food and Agriculture 94: 2972-2977. (2014).

16. [Efficacy of various fungicides and indigenous biocontrol agents against red root rot disease of tea plants.](#)

K. Manjukarunambika, P. Ponmurugan, and S. Marimuthu,

European Journal of Plant Pathology 137:67-78. (2013).

15. [Cardioprotective activity of Amaranthus viridis Linn: Effect on serum marker enzymes, cardiac troponin and antioxidant system in experimental myocardial infarcted rats.](#)

G. Saravanan, P. Ponmurugan, M. Sathiyavathi, S. Vadivukkarasi, and S.Sengottuvelu.

International Journal of Cardiology 165 ((2013)): 494-498. (2013).

14. Eastern Ghats' biodiversity reserves with unexplored lichen wealth.

S. Nayaka, A.M. Reddy, P. Ponmurugan, A. Devi, G. Ayyappadasan and D.K.Upredi.

Current Science 104 (7): 821-825. (2013).

13. [Two new species of saxicolous Pyxine with yellow medulla from southern India.](#)

S. Nayaka, D.K. Upreti, P. Ponmurugan, and G. Ayyappadasan

The Lichenologist 45 (1): 03-08. (2013).

12. [Management of Cephaleuros parasiticus Karst \(Trentepohliales: Trentepohliaceae\), an algal pathogen of tea plant, Camellia sinensis \(L\) \(O. Kuntze\).](#)

M. Ramya, P. Ponmurugan, and D. Saravanan,

Crop Protection 44: 68 -74. (2013).

11. [Antidiabetic effect of S-allylcysteine: effects on thyroid hormone and circulatory antioxidant system in experimental diabetic rats.](#)

G. Saravanan and P. Ponmurugan

Journal of Diabetes and Complications 26: 280-285. (2012).

10. [Significance of secondary metabolites and enzymes secreted by Trichoderma atroviride for the biological control of Phomopsis canker.](#)

S. Anita, P. Ponmurugan, and R. Ganesh Babu.

African Journal of Biotechnology 11 (45): 10350-10357. (2012).

09. [Ameliorative potential of S-allylcysteine: Effect on lipid profile and changes in tissue fatty acid composition in experimental diabetes.](#)

G. Saravanan, and P. Ponmurugan,

Experimental and Toxicological Pathology 64: 639-644. (2012).

08. [16S rRNA polylogenetic analysis of actinomycetes isolated from Eastern Ghats and marine associated with antibacterial and anticancerous activities.](#)

B. Nithya, P. Ponmurugan, and M. Fredimoses.

African Journal of Biotechnology 11: 12379-12388. (2012).

07. [Amaranthus viridis Linn, common spinach, modulates C-reactive proteins, protein profile and glycoproteins.](#)

G. Saravanan and P. Ponmurugan.

Journal of Science, Food and Agriculture 92: 2459-2464. (2012).

06. [Evaluation of various fungicides and microbial based biocontrol agents against Bird eye's spot disease in tea plants.](#)

B.M. Gnanamangai and P. Ponmurugan

Crop Protection 32: 111-118. (2011).

05. [Antihyperglycemic and antioxidant effects of Solanum xanthocarpum leaves \(field grown and in vitro raised\) extracts on alloxan induced diabetic rats.](#)

K. Poongothai, P. Ponmurugan, K.A. Zameer, B. Senthil Kumar, and S.A. Sheriff

Asian Pacific Journal of Tropical Medicine (2011): 778-785. (2011).

04. [Ameliorative potential of S-allyl cysteine on oxidative stress in STZ induced diabetic rats.](#)

G. Saravanana, and P. Ponmurugan

Chemco-Biological Interactions 189: 100-106. (2011).

03. [Beneficial Effect of S-allylcysteine \(SAC\) on blood glucose and pancreatic antioxidant system in Streptozotocin diabetic rats.](#)

G. Saravanana, and P. Ponmurugan

Plant Foods and Human Nutrition 65: 374-378. (2010).

02. [Culture and biochemical analysis of a tea algal pathogen Cephaleuros parasiticus.](#)

P. Ponmurugan, D. Saravanan, and M. Ramya.

Journal of Phycology 46: 1017-1023. (2010).

01. [Antidiabetic effect of S- allylcysteine: Effect on plasma and tissue glycoproteins in experimental diabetes.](#)

G. Saravanana, P. Ponmurugan, G.P. SenthilKumar, and T. Rajarajan.

Phytomedicine, 17: 1086-1089. (2010).

Publications in National Level Journals

S.No : 1

Details of Patent : Method of in vitro culturing of a lichen mycobiont in a fungal algal symbiosis

International/ National : National

Year : 2019

Application / Grant Number : 201941028007

S.No : 2

Details of Patent : Standardization of culturing techniques for the isolation of mycobionts from Parmotrema reticulatum

International/National : National

Year : 2019

Application / Grant Number : E-2/2176/2019-CHE

S.No : 3

Details of Patent : A single step process of extraction and purification of Methyl B Orsellinate from Rocella montagnei

International/National : National

Year : 2016

Application / Grant Number : E/1/41826/2016/CHE

S.No : 4

Details of Patent : Effective method of extraction and separation of antioxidant molecules from lichens obtained from Kolli hills of Tamil Nadu

International/National : National

Year : 2015

Application / Grant Number : 1799/CHE/2015

S.No : 5

Details of Patent : Indirect bioleaching process for leaching of zinc and iron from the sphalerite ore by the isolate *Leptospirillum ferriphilum*

International/National : National

Year : 2013

Application / Grant Number : 5144/CHE/2013

S.No : 6

Details of Patent : Isolation and molecular depiction of DNA binding protein from *Salmonella typhi*

International/National : National

Year : 2013

Application / Grant Number : 2865/CHE/2013

S.No : 7

Details of Patent : Microwave assisted detection of UV-absorbing compounds from Lichen

International/National : National

Year : 2013

Application / Grant Number : 2860/CHE/ 2013

S.No : 8

Details of Patent : Production of secondary metabolites from acid tolerant actinomycetes (*Streptomyces sannanensis* KSR11) and their analysis by GC-MS method

International/National : National

Year : 2013

Application / Grant Number : 1366/CHE/2013

S.No : 9

Details of Patent : Bioseparation of algal and fungal partners from lichens obtained from Eastern Ghats for biomedical applications

International/National : National

Year : 2011

Application / Grant Number : 2666/CHE/2011

S.No : 10

Details of Patent : Screening of biocontrol agents against *Phomopsis theae*, a causal agent of *Phomopsis* canker disease in tea plants

International/National : National

Year : 2009

Application / Grant Number : 1998/CHE/2009

S.No : 11

Details of Patent : Standardization of isolation techniques for *Cephaleuros parasiticus* Karst, a pathogenic alga in tea plants

International/National : National

Year : 2009

Application / Grant Number : 1997/CHE/2009

S.No : 12

Details of Patent : Biosynthesis of gold and silver nanoparticles for stability and extended shelf-life of antagonistic activities

International/National : International

Year : 2010

Application / Grant Number : US/12/916,497

S.No : 13

Details of Patent : Preparation of PGPR bioformulation for the biological control of red root rot disease in tea plants

International/National : International

Year : 2011

Application / Grant Number : US/13/092,178

S.No : 14

Details of Patent : Bioformulation of vermicompost based *Trichoderma atroviride* against *Phomopsis theae*, causal agent of *Phomopsis* canker disease in tea plants

International/National : International

Year : 2012

Application / Grant Number : US/13/348,444

S.No : 15

Details of Patent : A simple and modified process for isolation of Quercetin from Saudi Arabian Date fruits using Ionic liquid Microwave assisted extraction method

International/National : International

Year : 2012

Application / Grant Number : 15260337

S.No : 16

Details of Patent : Lichens assisted feed mix for poultry management to enhance the egg production

International/National : International

Year : ****

Application / Grant Number : GB1315156.8

S.No : 17

Details of Patent : Electroplating Industrial derived copper nanoparticles for the growth of agricultural crops in India

International/National : International

Year : ****

Application / Grant Number : GB1315071.9

Tab 4 Content

01. Research Methodology

P. Ponmurugan, J.P. Robinson, and S. Poornima,
AkiNik Publications, Volume I. 2020. ISBN: 9789390541089

02. Research Methodology

P. Ponmurugan, R. Balu, and N. Suryadevera
Lambert Publishing, Volume II. 2020 ISBN: 978-628-2-01321-2

03. Microbial diversity

P. Ponmurugan and J. Senthilkumar
Cambridge University Press, 2020 ISBN: 978-1-5275-4818-3.

04. A Primer on Earth Pollution: Pollution Types and Disposal.

J. Senthilkumar, P. Ponmurugan, and A. Vinothkanna,
Bentham Science Publishers, 2020 ISBN: 978-981-14-7654-9

05. Herbal plants to combat Diabetes mellitus

P. Mani, N. Suryadevera, P. Ponmurugan, and B. Ganapathy.

AkiNik Publications, 2019 ISBN: 978-93-5335-702-3.

06. Personalised Medicine & Nutrition

P. Renukadevi, E. Hemananthan, and P. Ponmurugan.

Laser Park Publishing House, 2019 ISBN: 978-81-938778-7-6.

07. Stem cell biotechnology

P. Ponmurugan, K. Ponmurugan, and K.M. Saradhadevi.

International Society for Green, Sustainable Engineering and Management 2019.

ISBN: 978-81-935591-9-2.

08. Biotechnology techniques in biodiversity conservation

P. Ponmurugan

New Age International. 2018. ISBN: 978-93-87788-66-4

09. Life Science; Research, Practices, and Application for Sustainable Development

P. Ponmurugan, V. Ramasubramanian, and T. Marimuthu

MacMillan Publishers, 2017 ISBN: 938700007-9.

10. Perspective of phop/q therapy to Multi Drug Resistant Salmonella

B. Gangathraprabhu, P. Ponmurugan, and S. Geethanjali,

Lambert Publishing, 2017. ISBN: 978-620-2-01319-2

11. Tea plants Phomopsis canker disease control - Pseudomonas fluorescens

P. Ponmurugan,

Lambert Publishing, 2017 ISBN: 978-3-659-82499-9

12. Protein engineering

M. Ramya and P. Ponmurugan..

Alpha Science International Ltd, 2015 ISBN: 978-1-84265-945-8

13. Animal studies: experimental procedures

G. Saravanan, and P. Ponmurugan

Narosa Publishing House, 2013 ISBN: 978-81-8487-234-7

14. Animal Studies: Experimental Procedures

G. Saravanan, and P. Ponmurugan.

Oxford Publishers, 2013 ISBN: 788184-8723447.

15. Biotechniques

P. Ponmurugan, and B.G. Prabhu.

MJP Publishers. 2013 ISBN: 978-81-8094-1191.

16. Genetic manipulation of tomato plant with wga gene

N.R. Makendran, and P. Ponmurugan.

Lambert Publishing, 2012 ISBN: 978-3-659-20224-6.

17. Applications of plant tissue culture

P. Ponmurugan, and K. Suresh Kumar.

New Age International, 2012 ISBN: 978-81-224-3328-9

18. Studies on Phomopsis theae Petch infecting tea in south India

P. Ponmurugan.

Lambert Publishing, 2012 ISBN: 978-3-8484-3264-6.

19. Antidiabetic properties of S-Allylcysteine in experimental diabetes

G. Saravanan, and P. Ponmurugan.

Lambert Publishing, 2012 ISBN: 978-3-659-21224-6.

20. Current scenario in biotechnology

P. Ponmurugan, P. Puniethaa, G. Ayyappadasan, and B. Ganesh, R.

Bloomsbury Publishers, 2012 ISBN: 978-93-82563-27-3.

21. Industry – Institute Interaction in biotechnology

P. Ponmurugan, B. Bagyalakshmi, and I. Muthiah.

MacMillan Publishers, 2012. ISBN: 978-93505-9057-7.

22. Experimental procedures in bioprocess technology and downstream processing

P. Ponmurugan, R. Nithya and M. Fredimoses.

Anjanaa Book House, 2012 ISBN: 978-81-910165-2-9.

23. Guides to Entrepreneurship in Biotechnology.

P. Ponmurugan, J. Philip Robinson, and B. Kalpana.

Anuradha Publishing Company, 2011 ISBN: 978-81-907494-1-1.

24. Hand book of biotechnology and chemical engineering.

P. Ponmurugan.

New Age International, 2010 ISBN: 978-81-224-3144-5.

25. Current scenario in microbial biotechnology.

P. Ponmurugan, and V. Balakrishnan.

Excel India Publishers, 2010 ISBN: 93-80043-97-X.

26. Role of biocontrol agents in disease management for sustainable agriculture

P. Ponmurugan, and M.A. Deepa.

Scitech Publications, 2010. ISBN: 978-81-8371-292-7.

27. Role of Biocontrol agents in PEST management for sustainable agriculture.

P. Ponmurugan, and M.A. Deepa.

Research India Publications, 2009 ISBN: 978-81-904362-7-4.

28. Guidelines for Entrepreneurship Development Programme for Biotechnology Graduates

P. Ponmurugan, and B. Nithya,

Excel India Publishers, 2009. ISBN 93-80043-18-X.

General Books in English Edition Published

1. Plants can speak.

P. Ponmurugan,

Indian University Press, 2020. (In Press).

2. Funding Opportunities in India and Abroad.

P. Ponmurugan,

New Age International Pvt. Ltd, 2020 (In Press).

3. Personality Development and Body Language.

P. Ponmurugan,

Indian University Press, (2019).

ISBN 978-81-943848-8-5

General Books in Tamil Edition Published

1. பூக்கள் பேசும்.

பி. பி. முருகன் ,

இந்திய பல்கலைக்கழகம், (2020).

ISBN 978-81-943845-5-1.

2. பூக்கள் பேசும் பூக்கள் பேசும் பூக்கள் பேசும்?

பி. பி. முருகன் ,

இந்திய பல்கலைக்கழகம், (2020).

ISBN 978-81-943848-7-8

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ISBN 978819410159-8

4.    ,

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ISBN 978819410158-1

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ISBN 818446929-2.

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ISBN 818446938-1.

Data Bases

Alumini Reflections: