



PERSONAL PROFILE

Name	Dr. N. KANIPANDIAN
Designation	Assistant Professor
Department	Biotechnology
Primary discipline (Area of interest)	UG: Microbiology PG: Biotechnology Ph.D: Animal Biotechnology
Educational qualification	M.Sc., Ph. D.
Additional qualification (SET/NET/CISR/JRF)	-
Gender	Male
Date of birth	23/02/1987
Contact number	9952075567
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Address for communication	No: 26, Nedesan Nagar Madhavaram Chennai - 600 060 Tamil Nadu

CAREER PROFILE

ACADEMIC EXPERIENCE	
Total years of teaching experience (Both UG & PG)	04 Months
Years of teaching experience (UG) (In current institution)	04 Months
Years of teaching experience (PG) (In current institution)	-
Years of experience in current academic rank	04 Months
Previous academic rank (if yes, mention the details)	-
Research experience (Excluding PhD)	3.6 Years
Area of specialization	Cancer Biology, Nano-drug delivery, Oxidative and Reductive Stress, Cell biology and Cardiovascular biology
RESEARCH GUIDANCE	
Number of Ph.D. guided	-
Number of M.Phil. guided	-
Number of UG – projects (Project work must have been documented as dissertations)	-
Number of PG – projects (Project work must have been documented as dissertations)	-
RESEARCH & PUBLICATIONS	
Number of articles published in web of science indexed journals	10
Number of articles published in Scopus indexed journals	04
Number of articles published in Scopus indexed journals	-
Number of books authored	-
Number of book chapters published	-
Number of editorials published	-
Number of communications/letters published	-
Number of monographs	-
Number of course materials published	-
Number of funded research projects	-
Number of scientific innovations guided	-
EXTENSION ACTIVITIES	
Number of seminars organized	International: 04 National: 04
Number of seminars attended	International:05 National:10

Number of workshops organized	NIL
Number of workshops attended	International:02 National:03
Number of conferences organized	NIL
Number of conferences attended	International:05 National:05
Number of faculty induction/development programmes organized	NIL
Number of faculty induction/development programmes attended	NIL
Number of refresher/orientation programmes organized	NIL
Number of refresher/orientation programmes attended	NIL
Number of certificate/training programmes organized	NIL
Number of certificate/training programmes attended	NIL
Number of invited presentations/participations	NIL
Number of participations in national events/professional bodies	NIL
Number of international visits	03
Memberships in university bodies	NIL
Memberships in government bodies/meetings/societies	NIL
Memberships in non-government bodies/meetings/societies	NIL
Number of awards received	National:03
Number of citations received	540
Honorary memberships	-
Honorary fellowships	-
Number of consultancy work	-
ADDITIONAL RESPONSIBILITIES (held in the current institution)	
Co-ordinator of any committees/cells (If yes, mention the name alone)	-
Member of any committees/cells (If yes, mention the name alone)	-
Any other achievements	

DETAILS OF RESEARCH:

April 2018- April 2020

Post Doctoral Fellow

Department of Hepatobiliary Pancreatic Surgery Henan Provincial People's Hospital
Zhengzhou, Henan, China

September 2017 – November 2017

Post Doctoral Fellow

Department of Medical Genetics & Molecular Biochemistry
The Lewis Katz School of Medicine
Temple University, Philadelphia, PA, USA

May 2016 – June 2017

Visiting Scientist (NIH funded)

Department of Pathology
University of Alabama at Birmingham
Birmingham, Alabama, USA

April 2013 – April 2015

Junior Research Fellow (UGC-DAE CSR funded)

Dept. of Animal Science, Bharathidasan University

Research Articles Published:

Murugan C, Vimala K, Manickam R, Thangaraj R, **Kanipandian N**, Kannan S (2020). Nanoformulated CPMSN biomaterial regulates proinflammatory cytokines to heal wounds and kills drug resistant bacteria, *Journal of Current Science*, 118 (10): 1583-1591 (IF: 0.786)

Kanipandian Nagarajan, Kannan Soundarapandian, Rick F. Thorne, Dongxiao Li, Deyu Li (2019). Activation of

pyroptotic cell death pathways in cancer: an alternative therapeutic approach, *Journal of Translational Oncology*, 12 (7): 925-931 (IF: 4.24)

- Nagarajan Kanipandian**, Deyu Li , Soundarapandian Kannan (2019). Induction of intrinsic apoptotic signaling pathway in A549 lung cancer cells using Silver nanoparticles from *Gossypium hirsutum* and evaluation of *in vivo* toxicity, *Journal of Biotechnology Reports*, 23, 1-11 (IF: 1.62)
- Gunaseelan K, Balaji K, **Kanipandian N**, Rajkumar K.S, Nilmini V, Thirumurugan R. (2016). Biogenic Synthesis and Spectroscopic characterization of silver nanoparticles using *Indoneesiella echioides*; *in vitro* evaluation of antioxidant, antimicrobial and cytotoxicity potential. *Journal of Applied Nanoscience*, 6: 973-982 (IF: 3.67)
- Rajkumar K. S. **Kanipandian N**, Thirumurugan R. (2015). Toxicity assessment on haematology, biochemical and histopathological alterations of silver nanoparticles-exposed freshwater fish *Labeo rohita*. *Applied Nanoscience*, 6: 19-29 (IF: 3.67)
- Thangam R, Sathuvan M, Poongodi A, Suresh V, Pazhanichamy K, Sivasubramanian S, **Kanipandian N**, Nalini G, Rengasamy R, Thirumurugan R, Kannan S. (2014). Activation of intrinsic apoptotic signaling pathway in cancer cells by *Cymbopogon citratus* polysaccharide fractions. *Carbohydrate Polymers*, 107: 138-150 (IF: 9.38)
- Kanipandian N** and Thirumurugan R. (2014). A Feasible approach to phyto-mediated synthesis of silver nanoparticles using Industrial Crop *Gossypium hirsutum* (Cotton) extract as stabilizing agent and assessment of its *in vitro* biomedical potential. *Industrial Crops and Products*, 55: 1-10 (IF: 5.65)
- Kanipandian N**, Kannan S, Ramesh R, Subramanian P, Thirumurugan R. (2014). Characterization, antioxidant and cytotoxicity evaluation of green synthesized silver nanoparticles using *Cleistanthus collinus* extract as surface modifier, *Materials Research Bulletin*, 49: 494-502 (IF: 4.64)
- Saraswathi N.K. Ashadevi, **Kanipandian N**, Vignesh V, and Thirumurugan R. (2013). Studies on Antibiotic Resistance of Pathogens Isolated from Infected Ornamental Fish. *World Journal of Fish and Marine Sciences*, 5 (5): 540-544.
- Ramesh R, Kavitha P, **Kanipandian N**, Arun S, Thirumurugan R and Subramanian P. (2013). Alteration of antioxidant enzymes and impairment of DNA in the SiO₂ nanoparticles exposed Zebra fish (*Danio rerio*), *Environmental Monitoring and Assessment*, 185(7):5873-5881 (IF: 2.513)
- Balaji N, Rajasekaran K M, **Kanipandian N**, Vignesh.V, Thirumurugan R. (2012). Isolation and Screening of Proteolytic Bacteria from Freshwater Fish *Cyprinus carpio*, *International Multidisciplinary Research Journal* 2(6):56-59.
- Vignesh V, **Kanipandian N**, Parthiban K, Vasuki B, Nishanthini A and Thirumurugan R. (2011). Evaluation of *Lactobacillus* sp. as a probiotic for the growth of freshwater fish *Cyprinus carpio*. *International Journal of Fisheries and Aquaculture Sciences*. 1, 2: 89-98.
- Sheeba Christina A, Vignesh V, **Kanipandian N**, Vasuki B, Nishanthini A, Parthiban K, Senthil Kumar K and Thirumurugan R. (2011). A comparative study, PCR in the differential diagnosis of Tuberculosis. *International Multidisciplinary Research Journal*. 1(6):32-34.
- Kanipandian N**, Senthil Murugan A, Shanaz Parveen S, Kannan S, Arjunan S and Narayanaswamy P. (2010). RAPD Markers: Application to Varietal Identification and Analysis of Genetic Relationships among *Ocimum* Varieties/Species. *International Journal of Biotechnology and Bioengineering Research*, 1(1):99-105.
- Nagarajan Kanipandian**, Deyu Li , Gang Liu , Soundarapandian Kannan (2021). Biogenic Silver nanoparticles is potent to activate mitochondrial mediated cell death signaling pathway in A549 lung cancer cells (Under submission)
- Thirumurugan R, Auxili Anita M, **Kanipandian N**, Vignesh V (2013). A Facile approach on decolorization of textile dye effluent using biogenic iron oxide nanoparticles from *Ziziphus mauritiana* and *Turbinaria conoides*, Inter. Conf. on Frontiers of Energy, Environmental Materials and Civil Engineering, organized by International Research Association and Computer Science, Beijing, China (**ISBN: 978-1-60595-142-3**).

Webinars organized (National / International)

1. Organized (Convenor) an one day National webinar on "Novel Perspectives on Drug Development from Medicinal Plants" on May 13th, 2021 at Acharya Arts and Science College, Puducherry, India
2. Organized (Convenor) an one day National webinar on "Pheromones in Animal Communications" on May 19th, 2021 at Acharya Arts and Science College, Puducherry, India
3. Organized (Convenor) an one day International webinar on "Synthesis of Bioinspired Materials from Marine organisms" on May 31st, 2021 at Acharya Arts and Science College, Puducherry, India
4. Organized (Convenor) an one day National webinar on "Therapeutic target of severe abscessation caused by bacteria (*Bacillus sp*) in Sheep and Goat population" on June 10th, 2021 at Acharya Arts and Science College, Puducherry, India
5. Organized (Convenor) an one day International webinar on "Amino acid Transporters in Cancer" on July 1st, 2021 at Acharya Arts and Science College, Puducherry, India
6. Organized (Convenor) an one day International webinar on "COVID-19 Management and Career Opportunities in the Life Science Discipline" on July 09th, 2021 at Acharya Arts and Science College, Puducherry, India
7. Organized (Convenor) an one day International webinar on "Fluorescent Nanomaterials for Biomedical Applications" on July 22nd, 2021 at Acharya Arts and Science College, Puducherry, India
8. Organized (Convenor) an one day National webinar on "Status on Antibiotic Resistance and Bacteriophage Therapy" on August 03rd, 2021 at Acharya Arts and Science College, Puducherry, India

Seminars / Conferences/workshop Attended

- ❖ Participated in "Talent Recruitment and Project Matchmaking Event for Innovation and Development" organized by Henan Province Government at Zhengzhou, China on October 27th and 28th, 2018.
- ❖ Participated in 'CCVC 2016 5th Annual Symposium, Focus Ischemic Heart Diseases' at The University of Alabama at Birmingham, School of Medicine, USA.
- ❖ Research Article was presented in Annual day function of UGC-DAE CSR on "Phyto-mediated synthesis,

Characterization and Biomedical Potential of Silver Nanoparticles using leaf extract of *Ocimum gratissimum*, held at UGC-DAE CSR, Indore, Madhya Pradesh: 18 & 19th December, 2015.

- ❖ Participated and presented a poster in International level conference on "Physiology and Medicine – 2014" organized by Dept. of Zoology, Periyar University, Salem on 15th – 17th October 2014.
 - ❖ Participated and presented a poster in National level conference on "Innovations, Implementations and Controversies of Animal Biotechnology", organized by Dept. of Animal Science, Bharathidasan University, Tiruchirappalli on 20th & 21st March 2014.
 - ❖ Participated in National level conference on "Evolutionary Trends in Biological and Pharmaceutical Chemistry" at Holy Cross College, Tiruchirappalli on 30th & 31st January 2014.
 - ❖ Research Paper presented in Annual day function of UGC-DAE CSR on "Green synthesis, characterization, *in vitro* evaluation of antimicrobial, antioxidant and cytotoxicity potential of silver nanoparticles using *Indoneesiella echioides*, held at UGC-DAE CSR, Indore, Madhya Pradesh: 23rd & 24th December, 2013.
 - ❖ Participated in the National level workshop on "Fluorescence Microscopy" at Periyar University, Salem on 10th October, 2013

 - ❖ Research Paper presented in the National Level Seminar on "Recent Trends in Biological Sciences" organized by PG & Research Department of Zoology, Nehru Memorial College, Puthanampatti, Tiruchirappalli: 7 & 8th March, 2013.
 - ❖ UGC Sponsored Short Term Course on "Methods in Life Sciences Research Scholars" at UGC – Academic Staff College, Bharathidasan University, Tiruchirappalli: 26-28th March, 2012.
 - ❖ Participated in Science Academics Lecture Workshop on *Challenges in Environmental Restoration (SAWCER 2012)*, Department of Environmental Biotechnology, Bharathidasan University, Tiruchirappalli: 5 & 6th March, 2012.
 - ❖ Participated and presented a paper in International conference on "NANO BIO 2012" at Amirta Centre for Nanosciences & Molecular medicine, Amirta Institute of Medical Sciences, Kochi, Kerala: 21-23rd February, 2012.
 - ❖ Participated in National Conference on *Potential and Prospects of Aquatic Resources* held at K.N.Govt. Arts College for Women, Thanjavur, India: 6 & 7th February, 2012.
 - ❖ National Conference on "Biotechnological Approach in Aquaculture" at Bharathiar University, Coimbatore: 1-3 February, 2012.
 - ❖ Participated in National symposium on "Chemical Signals in Animal Welfare" at Dept of Environmental Biotechnology, Bharathidasan University, Tiruchirappalli: 15 & 16, December, 2011.
 - ❖ International symposium on "Environmental Risk Assessment 2011" at Bharathiar University, Coimbatore: 17 - 19 October, 2011.
 - ❖ "Science Academies" Lecture Workshop on "Recent Advances in Biotechnology of Health and Disease" at Madurai Kamaraj University, Madurai: 7&8th October, 2011.
 - ❖ Participated in Colloquium on "3R Concept and its Practice in Academia and Research" at Mahatma Gandhi - Doerenkamp Center (MGDC), Bharathidasan University, Tiruchirappalli: 2nd October, 2011.
 - ❖ Participated in "Recent Advances in Molecular Biology Techniques" at Dept of Marine Biotechnology, Bharathidasan University, Tiruchirappalli: 12th September, 2011.
 - ❖ National level Seminar on "Challenges in Animal Biotechnology and Environmental Management Research" at Dept of Animal Science, Bharathidasan University, Tiruchirappalli: 23rd June, 2011
 - ❖ Participated in National level Advanced Training Programme on "Applications of Remote Sensing, GIS and GPS" at Dept of Geology, Bharathidasan University, Tiruchirappalli: 20-22nd June, 2011
 - ❖ National level Conference on "Explorations of the Natural Bioactive Compounds from the Marine Resources" at Dept of Marine Science, Bharathidasan University, Tiruchirappalli: 10&11th February, 2011

 - ❖ Participated in 3rd "Asian Lepidoptera Conservation symposium and Training programme" at Bharathiar university, Coimbatore: 25 – 29th October, 2010
 - ❖ Participated in the National level workshop on "Freshwater Fish culture using Bioencapsulated Live Feeds towards Technological Empowerment of Fishermen and self-help groups" at Bharathiar University, Coimbatore: 18-20th August, 2010
 - ❖ Participated in the IISc centenary conference on "Mechanisms of microbial pathogenesis" at Indian Institute of Science (IISc), Bangalore: 10-12 March, 2009
 - ❖ Participated in "National level symposium in Nanobiotechnology" at Seshadripuram 1st grade college, Bangalore: 25 & 25th August, 2008
 - ❖ Participated in "Seminar On Recent Trends in Animal Cell Science Technology" at M.G.R College, Hosur, India: 22nd January, 2008
 - ❖ Participated in "District Level Science Exhibition (BIOFAIR-08)" at M.G.R College, Hosur, India: 9 & 10th January, 2008.
 - ❖ UGC sponsored two days State level seminar on "Solid waste management" at ANJA College, Sivakasi, India: 27 & 28th February, 2006
- Award/Prize/Certificate etc.**
- I received Oral Presentation Award in Annual day function of UGC-DAE CSR on "Green synthesis, characterization, *in vitro* evaluation of antimicrobial, antioxidant and cytotoxicity potential of silver nanoparticles using *Indoneesiella echioides*, held at UGC-DAE CSR, Indore, Madhya Pradesh: 23rd & 24th December, 2013.
 - I won First Prize in the National Level Seminar on "Recent Trends in Biological Sciences" organized by PG & Research Department of Zoology, Nehru Memorial College, Puthanampatti, Tiruchirappalli.
 - Awarded as a Junior Research Fellow in the UGC – DAE CSR Funded Research Project

Journal Reviewer

- ❖ Journal of Steroids (Elsevier Publication)
- ❖ Journal of Bioorganic Chemistry (Elsevier Publication)
- ❖ Journal of Process Biochemistry (Elsevier Publication)

✧ Journal of Biocatalysis and Agricultural Biotechnology (Elsevier Publication)

Extracurricular activities

- I have participated and delivered a speech in the television programme on "Araichi Arangil" at Doordarshankendra, Madurai, Tamil Nadu.
- Actively participated in National Service Scheme programmes at ANJA College, Sivakasi, Tamil Nadu

Membership in Professional body

- Student member of "American Society for Pharmacology and Experimental Therapeutics"

Country Visited: USA and China