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Professional Experience

Postdoctoral Fellow (July 2023-Till Date) :

Orthopedic Research Center, Kaohsiung Medical University, Kaohsiung, Taiwan- 80708.

Postdoctoral Fellow (October 2021- November 2022)

Hallym University Dongtan Sacred Heart Hospital, Hwaseong-si, Gyeonggi-do, South Korea.

Postdoctoral Fellow (November 2019- September 2021)

Kangwon National University, Chuncheon, Gangwon-do, Republic of Korea.

Distinguished Adjunct faculty (January 2020-September 2021)

Saveetha Institute of Medical and Technical Sciences, Chennai, Tamilnadu, India.

Postdoctoral Fellow (October 2016-September 2019)

Department of Biotechnology, Thiruvalluvar University, Tamilnadu, India.

Assistant Professor (May 2015- April 2016)

St. Joseph University in Tanzania, Dar-es-salaam, Republic of Tanzania.

Senior Research Fellow (August 2012-August 2014)

Department of Biochemistry & Biotechnology, Annamalai University, Tamil Nadu, India.

Project Fellow (May 2008-May 2011)

Department of Biochemistry & Biotechnology, Annamalai University, Tamil Nadu, India.

Education

B.Sc., Biochemistry: University of Madras, Tamil Nadu, India - **April/2005**

M. Sc., Biotechnology: Bharathidasan University, Tamil Nadu, India - **April/ 2007**

M.Phil., Biotechnology: Annamalai University, Tamil Nadu, India - **January/ 2010**

Ph. D. Biotechnology- Annamalai University, Tamil Nadu, India - **September/2014**

Title of the thesis: Evaluation of chemopreventive potential of [6]-paradol on 7,12 dimethylbenz[a]anthracene (DMBA) induced hamster buccal pouch carcinogenesis.

Publication

Patent Filed	: 2	Publications	: 70	Book chapters:	6
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				Guest Editor	: 2

Publications in Peer-Reviewed National and International Journals

1. **Arokia Vijaya Anand Mariadoss**, Chau-Zen Wang. Exploring the Cellular and Molecular Mechanism of Discoidin Domain Receptors (DDR1 and DDR2) in Bone Formation, Regeneration, and Its Associated Disease Conditions. *International Journal of Molecular Sciences* 2023; 24:14895. (IF: 5.6)
2. **Arokia Vijaya Anand Mariadoss**, Sivakumar Allur Subramanian, Young-Min Kwon, Sukjin Shin, Sung Jae Kim. Epigallocatechin gallate protects the hydrogen peroxide-induced cytotoxicity and oxidative stress in tenocytes. *Process Biochemistry* 2023;130:105-115. (IF: 4.4)
3. **Arokia Vijaya Anand Mariadoss**, Kandasamy Saravanakumar, Anbazhagan Sathiyaseelan, Allur Subramaniyan Sivakumar, Xin Zhang, Han Bin Choi, Myeong Seon Jeong, Miri Choi, and Myeong-Hyeon Wang. Cellulose-graphene oxide nanocomposites encapsulated with green synthesized silver nanoparticles as an effective antibacterial agent. *Materials Today Communications* 2023; 35: 105652. (IF: 3.662).
4. **Arokia Vijaya Anand Mariadoss**, SeonJu Park, Kandasamy Saravanakumar, Anbazhagan Sathiyaseelan, Myeong-Hyeon Wang. Phytochemical profiling, in vitro antioxidants, and antidiabetic efficacy of ethyl acetate fraction of *Lespedeza cuneata* on streptozotocin-induced diabetic rats. *Environmental Science and Pollution Research* 2023; 12:1-8. (IF: 5.190)
5. **Arokia Vijaya Anand Mariadoss**, Allur Subramaniyan Sivakumar, Chang-Hun Lee, Sung Jae Kim. Diabetes mellitus and diabetic foot ulcer: Etiology, biochemical and molecular-based treatment strategies via gene and nanotherapy. *Biomedicine & Pharmacotherapy* 2022; 151: 113134. (IF: 7.419).
6. **Arokia Vijaya Anand Mariadoss**, Kandasamy Saravanakumar, Anbazhagan Sathiyaseelan, Kumar Vishven Naveen, and Myeong-Hyeon Wang. Enhancement of anti-bacterial potential of green synthesized selenium nanoparticles by starch encapsulation. *Microbial Pathogenesis* 2022; 167:105544. (IF: 3.848).
7. **Arokia Vijaya Anand Mariadoss**, Saravanakumar Kandasamy, Anbazhagan Sathiyaseelan, Karthikkumar Venkatachalam, Myeong-Hyeon, Wang. Smart drug delivery of p-Coumaric acid loaded aptamer conjugated starch nanoparticles for effective triple-negative breast cancer therapy. *International Journal of Biological Macromolecules* 2021;195:22-29. (IF: 8.2)
8. **Arokia Vijaya Anand Mariadoss**, SeonJu Park, Kandasamy Saravanakumar, Anbazhagan Sathiyaseelan, Myeong-Hyeon Wang. Ethyl acetate fraction of *Helianthus tuberosus*. L induces anti-diabetic, and wound healing activities in insulin resistant human liver cancer cell line and mouse fibroblast cells. *Antioxidants* 2021;1050582, (IF: 7.0)
9. **Arokia Vijaya Anand Mariadoss**, Kandasamy Saravanakumar, Sathiyaseelan Anbazhagan, Karthikkumar Venkatachalam, Myeong-Hyeon Wang. Phytomolecules medicated and folic acid conjugated starch-copper oxide nanoparticles for folate targeted breast cancer therapy. *International Journal of Biological Macromolecules* 2020;165: 747-757. (IF: 8.2)
10. **Arokia Vijaya Anand Mariadoss**; Saravanakumar Kandasamy; Anbazhagan Sathiyaseelan; Myeong-Hyeon, Wang. Multifunctional graphene oxide-silver

nanocomposite for enhanced mitochondrial mediated apoptosis in human cancer cells: A novel photothermal therapy. *Journal of Photochemistry & Photobiology, B: Biology* 2020;210:111984. (IF: 5.4)

11. **Arokia Vijaya Anand Mariadoss**, Sathiyaseelan Anbazhagan, Kandasamy Saravanakumar, Myeong-Hyeon Wang. Edible treatments of Capsicum extracts inactivate the microbial contaminations to improve the quality of fresh cut bell pepper (*Capsicum annuum* L. var. *grossum* (L.) Sendt). *Journal of Food Processing and Preservation* 2020;44:e14977. (IF: 2.609)
12. **Arokia Vijaya Anand Mariadoss**, Ramachandran Vinayagam, Vijayalakshmi Senthilkumar, Manickam Paulpandi, Kadarkarai Murugan, Baojun Xu, Gothandam K.M., Venkata Subbaiah Kotakadi, Ernest David. Phloretin loaded chitosan nanoparticles augments the pH-dependent mitochondrial-mediated intrinsic apoptosis in human oral cancer cells. *International Journal of Biological Macromolecules* 2019;130:997-1008. (IF: 8.2)
13. **Arokia Vijaya Anand Mariadoss**, Vinayagam Ramachandran, Baojun Xu, Venkatachalam Karthikumar, Vijayalakshmi Sankaran, Shalini Vijayakumar, Bakthavatsalam Sandya Rani, A Mohamed Sadiq, Ernest David. Phloretin loaded chitosan nanoparticles enhance the antioxidants and apoptotic mechanisms in DMBA induced experimental carcinogenesis. *Chemico-Biological Interactions* 2019;308:11-19. (IF: 5.168)
14. **Mariadoss Arokia Vijaya Anand**, Vinayagam Ramachandran, Shalani Vijayakumar, Franklin Jebaraj Herbert, Sanjay Kumar, Alaa Y Ghidan, Tawfiq M Al-Antary, Ernest David. Green Synthesis, characterization and antibacterial activity of silver nanoparticles by *Malus domestica* and its cytotoxic effect on (MCF-7) cell line. *Microbial Pathogenesis* 2019;135:103609. (IF: 3.848). [Most cited paper in the year 2018 of the journal *Microbial Pathogenesis*]
15. **Arokia Vijaya Anand Mariadoss**, Ramachandran Vinyagam, Vinothkumar Rajamanickam, Vijayalakshmi Senthilkumar, Sathish Venkatesan, Ernest David. Pharmacological aspects and potential use of phloretin: a systemic review. *Mini-Reviews in Medicinal Chemistry* 2019; 19:1060:1067 (IF: 3.8)
16. **Arokia Vijaya Anand Mariadoss**, Anantha Krishnan Dhanabalan, Hemalatha Munusamy, Krishnasamy Gunasekaran, Ernest David. In silico studies towards enhancing the anticancer activity of phytochemical phloretin against cancer drug targets. *Current Drug Therapy* 2018;13 (2):174 -188. (IF: 0.175)
17. **M. Arokia Vijaya Anand**, K. Suresh. Biochemical profiling and chemopreventive activity of phloretin on 7,12-Dimethylbenz(a)anthracene induced oral carcinogenesis in male golden Syrian hamsters. *Toxicology International* 2014;21:179-185. (IF: 0.107)
18. **Arokia Vijaya Anand Mariadoss**, Suresh Kathiresan, Rajasekar Muthusamy, Sivakumar Kathiresan. Protective effects of [6]-paradol on histological lesions and immunohistochemical gene expression in DMBA induced hamster buccal pouch carcinogenesis. *Asian Pacific Journal of Cancer Prevention* 2013;14(5):3123-3129. (IF: 0.464)

19. **M.Arokia Vijayaanand**, K.Suresh. Dose dependent study of phloretin against 7,12-dimethylbenz(a)anthracene (DMBA) induced hamster buccal pouch carcinogenesis. *International Journal of Advanced Research in Biological Science* 2014;1(9):324–333.
20. **Arokia Vijayaanand M**, Suresh, K. Protective role of [6]-paradol on DMBA induced genotoxicity in male golden Syrian hamsters. *International Journal of Current Research* 2013;5: 1617-621.
21. Velusamy Sharmila, Syed Abuthakir Mohamed Husain, Saud Alarifi, **Vijaya Anand Mariadoss Arokia**, Jeyam Muthusamy. Screening potential inhibitor from actinomycetes for Dihydrofolate reductase of *Staphylococcus aureus*–In vitro and in silico studies. *Journal of King Saud University-Science* 2023;35(6):102762. (IF: 3.8)
22. Parasuraman Vijayarohini, Akter Mst Sharmin, **Mariadoss Arokia Vijaya Anand**, Allur Subramaniyan Sivakumar, Duraiarasan Surendhiran, Gopika Sharesh, and Seungdo Kim. Fabrication and bacterial inhibitory activity of essential oil linalool loaded biocapsules against *Escherichia coli*. *Journal of Drug Delivery Science and Technology* 2022;74:103495. (IF: 5.0)
23. Subramanian Sivakumar, Seungbae Oh, **Arokia Vijaya Anand Mariadoss**, Sudong Chae, Sanjeevram Dhandapani, Perumalswamy Sekar Parasuraman, Si Young Song et al. Tunable mechanical properties of Mo₃Se₃-poly vinyl alcohol-based/silk fibroin-based nanowire ensure the regeneration mechanism in tenocytes derived from human bone marrow stem cells. *International Journal of Biological Macromolecules* 2022;210:196-207. (IF: 8.2)
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25. Sathiyaseelan A, Saravanakumar K, **Mariadoss AV**, Kim KM, Wang MH. Antibacterial activity of ethyl acetate extract of endophytic fungus (*Paraconiothyrium brasiliense*) through targeting dihydropteroate synthase (DHPS). *Process Biochemistry* 2021;111:27-35. (IF: 4.885)
26. Guo YY, **Mariadoss AV**, Saravanakumar K, Jin TY, Kim HY, Wang MH. Anticancer and Antioxidant Activities of Aqueous and Ethanolic Bark Extracts of *Acer Tegmentosum Maxim* (Asteraceae) on Tumor Cell Lines. *Oncologie* 2021;23(3):409-24. (IF: 0.9)
27. Naveen KV, Kim HY, Saravanakumar K, **Mariadoss AV**, Wang MH. Phyto-fabrication of biocompatible silver nanoparticles using *Potentilla chinensis* Ser leaves: characterization and evaluation of its antibacterial activity. *Journal of Nanostructure in Chemistry* 2021:1-3. (IF: 8.00)
28. Sathiyaseelan A, Park S, Saravanakumar K, Mariadoss AV, Wang MH. Evaluation of phytochemicals, antioxidants, and antidiabetic efficacy of various solvent fractions of *Gynura procumbens* (Lour.) Merr. *Process Biochemistry* 2021;111:51-62. (IF: 4.4)
29. Saravanakumar K, Park S, **Mariadoss AV**, Sathiyaseelan A, Veeraraghavan VP, Kim S, Wang MH. Chemical composition, antioxidant, and anti-diabetic activities of ethyl acetate fraction of *Stachys riederi* var. *japonica* (Miq.) in streptozotocin-induced type 2 diabetic mice. *Food and Chemical Toxicology* 2021;155:112374. (IF: 4.3)

30. Jin Y, Li B, Saravanakumar K, Hu X, **Mariadoss AV**, Wang MH. Cytotoxic and antibacterial activities of starch encapsulated photo-catalyzed phyto-genic silver nanoparticles from *Paeonia lactiflora* flowers. *Journal of Nanostructure in Chemistry* 2021;12:1-3. (IF: 10.1)
31. Saravanakumar K, Sriram B, Sathiyaseelan A, **Mariadoss AV**, Hu X, Han KS, Vishnupriya V, MubarakAli D, Wang MH. Synthesis, characterization, and cytotoxicity of starch-encapsulated biogenic silver nanoparticle and its improved anti-bacterial activity. *International Journal of Biological Macromolecules* 2021;182:1409-18. (IF: 8.2)
32. Saravanakumar K, Park S, Sathiyaseelan A, Mariadoss AV, Park S, Kim SJ, Wang MH. Isolation of Polysaccharides from *Trichoderma harzianum* with Antioxidant, Anticancer, and Enzyme Inhibition Properties. *Antioxidants* 2021;10(9):1372. (IF: 7.0)
33. Saravanakumar K, Sathiyaseelan A, **Mariadoss AVA**, Chelliah R, Shin S, Park S, Oh DH, Wang MH. Slightly acidic electrolyzed water combination with antioxidants and fumaric acid treatment to maintain the quality of fresh-cut bell peppers. *LWT Food Science and Technology* 2021:111565. (IF: 6.0)
34. Naveen KV, Sathiyaseelan A, **Mariadoss AVA**, Xiaowen H, Saravanakumar K, Wang MH. Fabrication of mycogenic silver nanoparticles using endophytic fungal extract and their characterization, antibacterial and cytotoxic activities. *Inorganic Chemistry Communications* 2021;128:108575. (IF: 3.8)
35. Sathiyaseelan A, Saravanakumar K, **Mariadoss AVA**, Wang MH. Antimicrobial and Wound Healing Properties of FeO Fabricated Chitosan/PVA Nanocomposite Sponge. *Antibiotics* 2021;10(5):524. (IF:4.8)
36. Sukjin Shin, Kandasamy Saravanakumar, **Arokia Vijaya Anand Mariadoss**, Xiaowen Hu, Anbazhagan Sathiyaseelan, Myeong-Hyeon Wang. Functionalization of selenium nanoparticles using the methanolic extract of *Cirsium setidens* and its antibacterial, antioxidant, and cytotoxicity activities. *Journal of Nanostructure in Chemistry* 2021;12:23-32. (IF: 10.1)
37. Saravanakumar K, Sathiyaseelan A, **Mariadoss AV**, Wang MH. Antioxidant and antidiabetic properties of biocompatible ceria oxide (CeO₂) nanoparticles in mouse fibroblast NIH3T3 and insulin resistant HepG2 cells. *Ceramics International* 2021;47(6):8618-26. (IF:5.2)
38. Sathiyaseelan A, Saravanakumar K, **Mariadoss AVA**, Wang MH. pH-controlled nucleolin targeted release of dual drug from chitosan-gold based aptamer functionalized nano drug delivery system for improved glioblastoma treatment. *Carbohydrate Polymers* 2021;262:117907. (IF: 11.2)
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40. Kandasamy Saravanakumar, **Mariadoss Arokia Vijaya Anand**, Sathiyaseelan Anbazhagan, Karthikkumar Venkatachalam, Xiaowen Hu, Myeong-Hyeon Wang. pH-sensitive release of fungal metabolites from chitosan nanoparticles for effective cytotoxicity in prostate cancer (PC3) cells. *Process Biochemistry* 2020;102:165-172 (IF: 4.4)

41. Kandasamy Saravanakumar, Sriram Baskaran, Sathiyaseelan Anbazhagan, Xiaowen Hu, **Mariadoss Arokia Vijaya Anand**, MubarakAli Davoodbasha, Myeong-Hyeon Wang. Molecular identification, volatile metabolites profiling, and bioactivities of an indigenous endophytic fungus (*Diaporthe* sp.). *Process Biochemistry* 2020;102:72-81. (IF: 4.4)
42. Saravanakumar K, Park S, Sathiyaseelan A, Kim KN, Cho SH, **Mariadoss AVA**, Wang MH. Metabolites profiling of methanolic extract of *Gardenia jasminoides* Ellis by UPLC-ESI-qTOF-MS/MS and its anti-diabetes, and antioxidant activities. *Pharmaceuticals* 2021;14(2):102. (IF: 4.6)
43. Sathiyaseelan Anbazhagan, Kandasamy Saravanakumar, **Mariadoss Arokia Vijaya Anand**, Ramachandran Chelliah, Hu Xiaowen, Deong-Hwan Oh, Myeong-Hyeon Wang. Chitosan-tea tree oil nanoemulsion and calcium chloride tailored edible coating increase the shelf life of fresh cut red bell pepper. *Progress in Organic Coatings* 2020;151:106010. (IF: 6.6)
44. Kandasamy Saravanakumar, **Arokia Vijaya Anand Mariadoss**, Anbazhagan Sathiyaseelan, Myeong-Hyeon Wang. Synthesis and characterization of nano-chitosan capped gold nanoparticles with multifunctional bioactive properties. *International Journal of Biological Macromolecules* 2020;165:747-57. (IF: : 8.2)
45. Kandasamy Saravanakumar, Sathiyaseelan Anbazhagan, **Mariadoss Arokia Vijaya Anand**, Jeevithan Elango, Hu Xiawen, Sukjin Shin, Myeong-Hyeon Wang. Dual stimuli-responsive release of aptamer AS1411 decorated erlotinib loaded chitosan nanoparticles for non-small-cell lung carcinoma therapy. *Carbohydrate Polymers* 2020;245:116407. (IF: 11.2)
46. Kandasamy Saravanakumar, Sathiyaseelan Anbazhagan, **Mariadoss Arokia Vijaya Anand**, Ramachandran Chelliah, Hu Xiaowen, Deong-Hwan Oh, Myeong-Hyeon Wang. *Lactobacillus rhamnosus* GG and Biochemical Agents Enrich the Shelf Life of Fresh-Cut Bell Pepper (*Capsicum annum* L. var. *grossum* (L.) Sendt). *Foods* 2020;9(9):1252. (IF: 5.2)
47. Shalini Vijayakumar, Ramachandran Vinayagam, **Mariadoss Arokia Vijaya Anand**, Karthikkumar Venkatachalam, Kandasamy Saravanakumar, Myeong-Hyeon Wang, Sangeetha Casimeer C, Gothandam KM, Ernest David. Green synthesis of gold nanoparticle using *Eclipta alba* and its antidiabetic activities through regulation of Bcl-2 expression in pancreatic cell line. *Journal of Drug Delivery Science and Technology* 2020;58:101786. (IF: 5.0)
48. Sathiyaseelan Anbazhagan, Kandasamy Saravanakumar, **Mariadoss Arokia Vijaya Anand**, Myeong-Hyeon Wang. Biocompatible fungal chitosan encapsulated phyto-genic silver nanoparticles enhanced antidiabetic, antioxidant and antibacterial activity. *International Journal of Biological Macromolecules* 2020;153:63-71 (IF: 8.2)
49. Kandasamy Saravanakumar, Sathiyaseelan Anbazhagan, **Mariadoss Arokia Vijaya Anand**, Xiaowen Hu, Myeong-Hyeon Wang. Physical and bioactivities of biopolymeric films incorporated with cellulose, sodium alginate and copper oxide nanoparticles for food packaging application. *International Journal of Biological Macromolecules* 2020;153:207-14. (IF: 8.2)

50. Venkatachalam K, Vinayagam R, **Arokia Vijaya Anand M**, Isa NM, Ponnaiyan R. Biochemical and molecular aspects of 1, 2-dimethylhydrazine (DMH)-induced colon carcinogenesis: a review. *Toxicology Research* 2020;9:2-18. (IF: 2.1)
51. Ramachandran Vinayagam, **Arokia Vijaya Anand Mariadoss**, Ernest David, Karthikkumar Venkatachalam, Shalini Vijayakumar, Vijayalakshmi Sankaran, Agilan Balupillai, Sangeetha Casimeer C, Senthilraja Poomalai, KM Gothandam, Venkata Subbaiah Kotakadi, Alaa Y Ghidan, Tawfiq M Al-Antary. Antidiabetic Activity of Gold Nanoparticles Synthesized Using Wedelolactone in RIN-5F Cell Line. *Antioxidants (Basel)* 2020;9(1):8. (IF: 7.0)
52. Sankaran Vijayalakshmi, **Arokia Vijaya Anand Mariadoss**, Vinayagam Ramachandran, Vijayakumar Shalini, Balupillai Agilan, Casimeer C Sangeetha, Periyasamy Balu, Venkata Subbaih Kotakadi, Venkatachalam Karthikkumar, David Ernest. Polydatin encapsulated poly [lactic-co-glycolic acid] nanoformulation counteract the 7,12-dimethylbenz[a] anthracene mediated experimental carcinogenesis through the inhibition of cell proliferation. *Antioxidants (Basel)* 2019;8(9):E375. (IF: 7.0)
53. Yu Gao, **Mariadoss Arokia Vijaya Anand**, Vinayagam Ramachandran, Venkatachalam Karthikkumar, Vijayakumar Shalini, Sankaran Vijayalakshmi, David Ernest. Biofabrication of zinc oxide nanoparticles from *Aspergillus niger*, their antioxidant, antimicrobial and anticancer activity. *Journal of Cluster Science* 2019;30:937-946. (IF: 2.8)
54. Sivaraj Mehnath, Mukherjee Arjama, Mariappan Rajan, **Mariadoss Arokia Vijayaanand**, Murugaraj Jeyaraj. Polyorganophosphazene stabilized gold nanoparticles for intracellular drug delivery in breast carcinoma cells. *Process Biochemistry* 2018;72:152-161. (IF: 4.4).
55. Mohan Balamurugan, Kathiresan Sivakumar, **Arokia Vijaya Anand Mariadoss**, Kathiresan Suresh. Modulating effect of *Hypnea musciformis* (red seaweed) on lipid peroxidation, antioxidants and biotransforming enzymes in 7,12-dimethylbenz (a) anthracene induced mammary carcinogenesis in experimental animals. *Pharmacognosy Research* 2016;9:1008-115.
56. Rajalingam K, Sugunadevi G, **Vijayaanand MA**, Sathiyapriya J, Sivakumar K, Suresh K. Anticlastogenic effect of diosgenin on 7,12-dimethylbenz(a)anthracene treated experimental animals. *Toxicology Mechanism and Methods* 2013;23:77-75. (IF: 4.019)
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58. Rajalingam K, Sugunadevi G, **Arokia Vijayaanand M**, Kalaimathi J, Suresh K. Anti-tumour and anti-oxidative potential of diosgenin against 7,12-dimethylbenz(a)anthracene induced experimental oral carcinogenesis. *Pathology and Oncology Research* 2012;18(2):405-12. (IF: 2.874)
59. Suresh K, **Vijayaanand MA**, Sivakumar K, Geetha A. Protective effect of [6]-paradol on biomembrane integrity in 7, 12 dimethylbenz[a]anthracene (DMBA) induced hamster buccal pouch carcinogens. *Journal of Pharmacy Research* 2010;3(12):2811-814.
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dimethylbenz[a]anthracene induced oral carcinogenesis. *Pharmacologyonline* 2010;2(1):689-01. (IF: 0.61)

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65. D. Kalidoss, **M. Arokia Vijaya Anand**, K. Tamilselvam and D. Surendhiran. Effect of continuous training and suriyanamaskar on breath holding time of mild hypertension middle aged university teachers. *IAJMR* 2016; 2(1): 467-470
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Book Chapter

1. Saravanakumar Kandasamy, Anbazhagan Sathiyaseelan, **Arokia Vijaya Anand Mariadoss**, and Myeong-Hyeon Wang. "Elicitor Proteins from for Biocontrol Products." *Advances in Trichoderma Biology for Agricultural Applications* (2022): 227-242.

2. Sathiyaseelan A, Saravanakumar K, Manikandan M, Shajahan A, **Mariadoss AV**, Wang MH. Core-shell silver nanoparticles: Synthesis, characterization, and applications. *InGreen Synthesis of Silver Nanomaterials 2022* Jan 1 (pp. 75-97). Elsevier.
3. Kandasamy Saravanakumar, Anuruddhika Udayangani Rathnayake, Anbazhagan Sathiyaseelan, Vijayalakshmi Selvakumar, **Mariadoss Arokia Vijaya Anand**, Damilare Emmanuel Adeyemi, Kandasamy Kathiresan, Hee-Guk Byun, Myeong-Hyeon Wang. Trichoderma-functional metabolomics to genetic engineering. *New and Future Developments in Microbial Biotechnology and Bioengineering - Recent Developments in Trichoderma Research*. B978-0-12-819453-9.00010-6. 2020 (Elsevier) Eds-Vijai kumar Gupta
4. R. Saranya, **M. Arokia Vijaya Anand**, K. Saravanasingh, M. Santhosh Kumar, S. Vijayalakshmi, S. Sangeetha, Ernest David. Diabetes mellitus: the global burden of Disease; a comprehensive review on Ethnobotanical study of medicinal Plants used in the management of Diabetes mellitus. *Pharmacological Benefits of Natural Products* (ISBN: 978-81-934054-2-0) First Edition, Chapter -17, Page: 294-318. JPS Scientific Publications, India, May 2019.
5. M.Hemalatha, **M.Arokia Vijaya Anand**, V.Sathish, Ernest David. Heavy metals as a source of prominent environmental pollution: a Review of sources, chemistry, risks Assessment of chromium. *Biological Sciences for Human Welfare* (ISBN: 978-81-934054-3-7) First Edition, Chapter -12, Page: 215 – 229. JPS Scientific Publications, India, May 2019.
6. Suresh K, Sugunadevi G, **Vijayaanand MA**, S.Manoharan. Chemopreventive and antioxidant efficacy of Mosinone-A on experimental oral carcinogenesis, New Delhi: Excel India publisher, ISBN 93-80043-56-2, May 2009.

Resource person/Technical person

1. Delivered an Invited Talk, “ An overview of targeted drug delivery for cancer treatment using a metal and polymer based nanoparticles”, at the International E-Conference on recent trends in phytochemistry organized by St.Joseph University in Tanzania, Dar-es-salaam, Republic of Tanzania from 15th November, 2023.
2. Delivered an Invited Talk, “Bioconjugated metal and polymer based nanoparticles for targeted drug delivery mechanism in cancer therapy”, at the International Conference on Molecular Medicine and Therapeutics (ICMT - 2023) organized by the Department of Biochemistry and Biotechnology, Annamalai University, Annamalainagar, Tamil Nadu, India, from January 7 – 9, 2023
3. Delivered an Invited lecture on “Nanomedicine development and future project” organized by Department of Biochemistry, Rabiammal Ahamed Maideen College for Women, Thiruvarur, Tamil Nadu, India, on 29th May 2020.
4. Worked as a Technical Resource person in International Conference on Recent Advances in Biomedical Technology (RABT-2018) organized by Department of Biotechnology, Thiruvalluvar University, Vellore, Tamil Nadu, India, from 29th -31st August, 2018
5. Worked as a Technical Resource person in International Conference on Recent Advances in Biomedical Technology (RABT-2017) organized by Department of

Biotechnology, Thiruvalluvar University, Vellore, Tamil Nadu, India, from 15th-17th August, 2017.

6. Delivered an Invited lecture on “Medicinal Plants: a source of anticancer agents” in International seminar Recent Research Trends in Biosciences organized by Department of Biochemistry and Chemistry, Idhaya college for women, Sarugani, Tamil Nadu, India, from 21-22nd July, 2016.
7. Delivered an Invited lecture on “Natural Products on Cancer Chemotherapy” in National Conference on Drug Discovery and Therapy (DDT-2016) organized by Department of Botany, Annamalai University, Annamalainagar, Tamil Nadu, India, from 7 & 8th January, 2016.
8. Delivered an Invited lecture on “Higher-order teaching-learning techniques” in a training program on teaching methodology and academic management organized by the Department of Biological Education, St. Joseph University in Tanzania, Dar-es-salaam, Republic of Tanzania from 5-15th October, 2015.
9. Worked as a Technical Resource person in National Workshop on Biological Sample Preparation in Scanning Electron Microscopy organized by Department of Botany, Annamalai University, Annamalainagar, Tamil Nadu, India, from 27-28th March, 2014.