

DR. S. DEVANESAN, PhD

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SUMMARY

- Synthesis of Gold, Silver Nanoparticles from Saudi Medicinal Plants
- Cytotoxicity study on different cell lines from green synthesized AgNPs
- Anti Microbial & Fungal activity Techniques on medicinal plants
- Experience in Plant Tissue Culture Techniques
- Have an experience in the Optical Diagnosis of Hemoglobinopathies
- Have an experience in Cancer Research usig animals (Albano rats)
- Have Experience in biochemical Techniques
- Hand on experience on Spectrophotometer (LS 45, LS 55 etc.)
- ***h-index 13: Average citations per item: 10.2***

Educational Background

- PhD in Biochemistry, Bharathiar University Coimbatore,Tamil Nadu India
Highly Commented

Thesis

Screening of Thalassemia and Sickle Cell Disease by Using Spectral and Conventional Analysis

- Master of Philosophy (Biotechnology):2008; Periyar University- Salem, India

Thesis

Studies on Anti Hepatotoxic Activity of Medicinal plants on *Jasminum Garandyflorum*

- Master of Science (Biochemistry) 2004; Bharathidasan University, Trichy, India.

Thesis

In vitro culture and antimicrobial screening of ***Toddalia Asiatica***

- Bachelor of Science (2002) Bharathidasan University – India

Research Experience

- Cancer induced Albino Rats CT4, *Hepatotoxic activity of AST, ASP & ALA*
- Used Luminescence Spectrometric to analyze the Excitation and Emission of AST, ASP& ALA
- Fermentation Lab,
- Have Experience in Manufacturing units
- Have Experience in Microscope Analyze Techniques

KACST Proposal Submitted 2017 as a Co Investigator

1. Mohamad S. AlSalhi, M. Atif and S.Devanesan. A new approach to treatment of cancer by photodynamic therapy of nanostructures [Saudi Medicinal Plants] using animal models **[Proposal No: 1-17-01-001-0069]**
2. V. Masilamani, Fatma AlGahtani, Mohamad S. AlSalhi, and S.Devanesan Premarital screening of inherited blood disorder of KSA by portable laser spectrometer **[Proposal No: 3-17-05-001-0056]**

Granted U.S Patents

1. M.S. AlSalhi, **S. Devanesan**, Akram Ahmed Alfuraydi, Mysoon AlAnsari . Green synthesis of silver nanoparticles using sesame (*Sesamum indicum*) oil cake and cytotoxicity study on MCF-7 Cell Line “**Publication number: US 20180333433, Nov 2018.**
2. **S. Devanesan**, M.S.AlSalhi, G. Periyasami and A.K. Aldalbhai “Methods of preparing biologically active derivatives from *Calotropis Gigantea* flowers” **Grant No: US 101119181 B1, OCT 2018**
3. M.S.AlSalhi, **S.Devanesan** “Synthesis of silver nanoparticels from *Abelmoschus Esculentus* Extract”. **Grant No: US 10059601 B1, Aug 2018**
4. V. Masilamani, M.S.AlSalhi, **S.Devanesan** “Spectral Method For Quantifying Hemoglobin Fragility Caused By Smoking”. **Grant No: US 9726679 B2, Aug 2017**

5. V. Masilamani, M.S.AlSalhi, Karim H. Farhat, Danny Rabah, S. Prasad, **S.Devanesan** “Method of detecting bladder cancer by optical analysis of bodily fluids” **Grant No: US 9733187 B2, Aug 2017**

6. M.S. AlSalhi, Akram Ahmed Alfuraydi, **S. Devanesan** “Green Synthesis of Silver Nano Particles from Pimpinella Anisum Seed Extract” **Grant No: US 9144544 B1, Sep 29,2015**

AcceptedPpatent

1.M.S. AlSalhi, **S. Devanesan**, Calcium Hydroxide Nanoparticles Synthesized With Carob Pulp Extract: Docket No. 33032.09:Serial No. 16/397,286: Jan, 2019.

Book Chapter

1. K Murugan, C.Raman. C. Panneerselvam, P. Madhiyazhagan, J.Subramanium, D. Dinesh, Jiang-Shiou Hwang, J.Wei, M.S. AlSalhi, **S.Devanesan**. ***Nano-Insecticides for the Control of Human and Crop Pests***. Short Views on Insect Genomics and Proteomics: Insect Proteomics, Edited by Chandrasekar Rama, Marian R. Goldsmith, Tolulope A. Agunbiade, 01/2016: chapter 10: pages 229-251; ***Springer International Publishing Switzerland., ISBN: 978-3-319-24242-2***

Paper Published with ISI Web of Sceince Journals:

51. J. Narenkumar, M. S. AlSalhi, A. Arul Prakash, S. Abilaji, **S. Devanesan**,A. Rajasekar, A. A. Alfuraydi. Impact and Role of Bacterial Communities on Biocorrosion of Metals Used in the Processing Industry. ACS Omega (2019). DOI: [10.1021/acsomega.9b02954](https://doi.org/10.1021/acsomega.9b02954).

50. M. S AlSalhi, **S. Devanesan**, S. Shanmugam, Y. Ock Kim, J.T.Known, K.J. Kim. Synthesis and biocompatible role of hierarchical structured carbon nanoplates incorporated α -Fe₂O₃ nanocomposites for biomedical applications with respect to cancer treatment. Saudi Journal of Biological Sciences (2019). <https://doi.org/10.1016/j.sjbs.2019.11.028>.

49. C Vijilvani, MR Bindhu, FC Frincy, Mohamad S. AlSalhi, S Sabitha, **S. Devanesan**, K Saravanakumar, M Umadevi, M.J. Aljaafreh, M. Atif, Antimicrobial and catalytic activities of biosynthesized gold, silver and palladium nanoparticles from Solanum nigurum leaves. Journal of Photochemistry and Photobiology B: Biology (2019), 111713. <https://doi.org/10.1016/j.jphotobiol.2019.111713>.

- 48.** Mohamad S. AlSalhi, **S. Devanesan***, M. Atif, M. N. Akhtar Saleem, T. N Khan, F. AlQahtani, V. Masilamani. Detection of hemophilia by fluorescence spectroscopy: A photodiagnosis approach. Photodiagnosis and Photodynamic Therapy. 2019/11/12. <https://doi.org/10.1016/j.pdpdt.2019.101598>.
- 47.** K. Sathishkumar, M. S AlSalhi, E. Sanganyado, **S. Devanesan**, A. Arulprakash, A. Rajasekar Sequential electrochemical oxidation and bio-treatment of the azo dye Congo red and textile effluent. Journal of Photochemistry and Photobiology B: Biology, 200 (2019), 111655.
- 46.** **S Devanesan**, F AlQahtani, MS AlSalhi, K Jeyaprakash, V Masilamai. Diagnosis of thalassemia using fluorescence spectroscopy, auto-analyzer, and hemoglobin electrophoresis—A prospective study. Journal of infection and public health. 12(2019), 585-590.
- 45.** K. E AlZahrani, **S. Devanesan***, V. Masilamani, F. Al Qahtani, M.S AlSalhi, D. Canatan, K. Farhat. Facile spectroscopy and atomic force microscopy for the discrimination of α and β thalassemia traits and diseases: A photodiagnosis approach. Photodiagnosis and photodynamic therapy. 27 (2019), 149-155.
- 44.** M. S. AlSalhi, A. Sakthisabarimoorthi, **S. Devanesan** S. A. Martin Britto Dhas, M. Jose. Study on photocatalytic and impedance spectroscopy investigations of composite CuO/ZnO nanoparticles. Journal of Materials Science: Materials in Electronics. 30(2019), 13708–13718.
- 43.** M. S. AlSalhi, K Elangovan, AJA Ranjitsingh, P Murali, **S Devanesan***. Synthesis of silver nanoparticles using plant derived 4-N-methyl benzoic acid and evaluation of antimicrobial, antioxidant and antitumor activity. *Saudi Journal of Biological Sciences*.29 (2019), 970-978.
- 42.** A.A. Alfuraydi, **S. Devanesan***, M. Al-Ansari, M.S. AlSalhi, A.J. Ranjitsingh Eco-friendly green synthesis of silver nanoparticles from the sesame oil cake and its potential anticancer and antimicrobial activities. J Photochem Photobiol B. 192 (2019), 83-89.
- 41.** M. S AlSalhi, **S. Devanesan***, Khalid E AlZahrani, M. AlShebly, F. Al-Qahtani, K. Farhat, V. Masilamani. Impact of Diabetes Mellitus on Human Erythrocytes: Atomic Force Microscopy and Spectral Investigations. International journal of environmental research and public health, 15 (11); 2018: 2368.
- 40.** **S. Devanesan**, M. S AlSalhi, R.VishnuBalaji, A.J.A. Ranjitsingh, A. Anis, A A. Akram, Y A. Fulwah, S.A. Fadilah H. Ahmed. Antimicrobial and Cytotoxicity Effects of Synthesized Silver Nanoparticles from Punica granatum Peel Extract. Nanoscale Research Letters, 13(15) 2018: 315.
- 39.** M Atif, MS AlSalhi, **S Devanesan**, V Masilamani, K Farhat, D Rabah. A study for the detection of kidney cancer using fluorescence emission spectra and

synchronous fluorescence excitation spectra of blood and urine. Photodiagnosis and photodynamic therapy, 23 (2018): 40-44.

38. V. Masilamani, **S. Devanesan**, F. AlQathani, M. AlShebly, H.H. Daban, D. Canatan, K. Farhat, M. Jabry, M. S. AlSalhi. A Novel Technique of Spectral Discrimination of Variants of Sickle Cell Anemia. Disease Markers, 2018, (2018): 5942368.

37. R. Azhagu Raj , M. C. John Milton , A. Prakasam , M. Sumathi **S. Devanesan** .In silico molecular docking of bioactive compound pregnan-20-one,5,6-epoxy-3,17,dihydroxy-16 methyl-[3a,5a,6a,16a] with brain cancer protein(1qh4) : a promising molecular target. Sciencia Acta Xaveriana An International Science Journal, 9 (1), 2018: 51-55. (Non ISI)

36. **S. Devanesan**, M. AlShebly, R. Kalaivani, K. Sivaji, K. Farhat, M.S. AlSalhi, M. AlAtawi, D. Rabah, V. Masilamani. Fluorescence spectral features of blood components of pregnant women. Current Science, 113 (3); (2017):457-461.

35. R Saranya, R Azhagu Raj, MS AlSalhi, **S Devanesan**. Dependence of Catalytic Activity of Nanocrystalline Nickel Ferrite on Its Structural, Morphological, Optical, and Magnetic Properties in Aerobic Oxidation of Benzyl Alcohol. Journal of Superconductivity and Novel Magnetism. 30(12); (2017): 1-6.

34. K. Murugan, J. Anitha, U. Suresh, R. Rajaganesh, C. Panneerselvam, A. Aziz, Li-Chun ,K. Kalimuthu, M. S. AlSalhi, **S. Devanesan**, M. Nicoletti, S. Sarkar, G. Benelli, Jiang-Shiou. Chitosan-fabricated Ag nanoparticles and larvivorous fishes: a novel route to control the coastal malaria vector *Anopheles sundaicus*? . Hydrobiologia. 797 (1); (2017): 335–350.

33. P. Madhiyazhagan, K. Murugan, A.Naresh Kumar, T. Nataraj, J.Subramaniam, M. Nicoletti, M.S. AlSalhi, **S. Devanesan**, G.Benelli. One pot synthesis of silver nanocrystals using the seaweed *Gracilaria edulis*: biophysical characterization and potential against the filariasis vector *Culex quinquefasciatus* and the midge *Chironomus circumdatus*. Journal of Applied Phycology, 29 (1); (2017): 649-659 (2016): I.F 2.37

32. R. Azhagu Raja, M.S. AlSalhi, **S.Devanesan**. Microwave-Assisted Synthesis of Nickel Oxide Nanoparticles Using *Coriandrum sativum* Leaf Extract and Their Structural-Magnetic Catalytic Properties. Materials 10(5); (2017) 460, 1-8.

31. G. Benelli, M. Govindarajan, Mohamad S. AlSalhi, **S. Devanesan**, F. Maggi . High toxicity of camphene and γ-elemene from *Wedelia prostrata* essential oil

against larvae of *Spodoptera litura* (Lepidoptera: Noctuidae). Environmental Science and Pollution Research. 24 (31); (2017): 1-7.

30. S. Devanesan, Mohamad S. AlSalhi, R. Vishnubalaji, Akram A. Alfuraydi, Nehad M. Alajeze, Musaad Alfayez, K. Murugan, Shaban R. M. Sayed, Marcello Nicoletti, Giovanni Benelli. Rapid Biological Synthesis of Silver Nanoparticles Using Plant Seed Extracts and Their Cytotoxicity on Colorectal Cancer Cell Lines. Journal of cluster Science. 28(1); (2017): 595-605

29. K. Murugan, D. Dinesh, M. Paulpandi, J. Subramaniam, R. Rakesh Pandiyan, C. Panneerselvam, U. Suresh, C. Vadivalagan, M. S. Alsalhi, **S. Devanesan**, Hui Wei, Akon Higuchi, M. Nicoletti, A. Canale, G. Benelli. Mangrove Helps: *Sonneratia alba*-Synthesized Silver Nanoparticles Magnify Guppy Fish Predation Against *Aedes aegypti* Young Instars and Down-Regulate the Expression of Envelope (E) Gene in Dengue Virus (Serotype DEN-2). Journal of cluster Science. 28(1); (2017): 437-461. **I.F 1.66**

28. K. Murugan, Jiang Wei, M. S. AlSalhi, M. Nicoletti, M. Paulpandi, J. Subramaniam, C. Vadivalagan, Hui Wei, P. Amuthavalli, A. Jaganathan, **S. Devanesan**, D. Nataraj, B. Vaseeharan, A. Canale, G. Benelli. Magnetic nanoparticles are highly toxic to chloroquine-resistant *Plasmodium falciparum*, dengue virus (DEN-2), and their mosquito vectors. Parasitology Research, 116 (2); (2017): 495-502. **I.F 2.10**

27. K. Murugan, J. Anitha, J. Subramaniam, J-S. Hwang, Hui Wei, M.S. AlSalhi, **S. Devanesan**, Suresh Kumar, K. Pugazhendy, M. Nicoletti, G. Benelli. Fabrication of nano-mosquitocides using chitosan from crab shells: impact on non-target organisms in the aquatic environment. Ecotoxicology and Environmental Safety. 132;(2016): 318-328. **I.F 3.13**

26. V Vahitha, K Perinbam, S Kadar Basha, A Jamal Mohamed, **S Devanesan**. *Nigella sativa linn* and its comprehensive activity against various microbes and cancer: a mini review. Institute of Integrative Omics and Applied Biotechnology. 7(6); (2016): 61-67.

25. M. S. Alsalhi, **S. Devanesan**, Akram A Alfuraydi, R. Vishnubalaji, A.M. Murugan, K. Murugan, M. Nicoletti, G. Benelli. Green synthesis of silver nanoparticles using *Pimpinella anisum* seeds: antimicrobial activity and cytotoxicity on human neonatal skin stromal cells and colon cancer cells. **International journal of Nanomedicine**, 11, (2016): 4439-4449. **I.F. 4.50.**

24. V. Masilamani, Khalid Alzharani, **S.Devanesan**, Hadi Alqathani, M.S. AlSalhi. Smoking Induced Hemolysis: Spectral and Microscopic Investigations. **Scientific Reports [Nature group] Feb -2016. I.F. 5.57.**

23. K. Murugan, C. Panneerselvam, C. Samidoss, P. Madhiyazhagan M. Roni, J.Subramaniam, M.S. AlSalhi, **S. Devanesan**, M. Nicoletti, A. Canale, G. Benelli. In vivo and in vitro effectiveness of Azadirachta indica-synthesized silver nanocrystals against Plasmodium berghei and Plasmodium falciparum, and their potential against malaria mosquitoes. **Research in Veterinary Science** 106: 14–22, 2016. **I.F. 1.48**

22. N. M. Basith · R. Azhagu Raj,M.S. AlSalhi, **S. Devanesan**, S. J. Askar Ali, S. Rajasekar, R. Sundaram, C. Ragupathi. Structural, Magnetic, Optical, and Catalytic Properties of Fe₃O₄ Nanoparticles by the Sol-Gel Method. **Journal of Superconductivity and Novel Magnetism**. 25 (7):1-6,2016: **I.F. 0.91**

21. J.Subramaniam, K. Murugan, C. Panneerselvam, K. Kovendan, P.Madhiyazhagan, M.S. AlSalhi, **S. Devanesan**, M. Nicoletti, A. Canale, G. Benelli. Multipurpose effectiveness of Couroupita guianensis-synthesized gold nanoparticles: high antiplasmodial potential, field efficacy against malaria vectors and synergy with Aplocheilus lineatus predators. **Environmental Science and Pollution Research**.23 (3):1-12, 2016. **I.F.2.83**

20. .K. Murugan, C. Vadivalagan, P. Karthika, C.Panneerselvam, M.Paulpandi, J. Subramaniam, M. S. AlSalhi, **S Devanesan**, N Parajulee, G Benelli. DNA barcoding and molecular evolution of mosquito vectors of medical and veterinary importance. **Parasitology Research**, 115 (1), 114-121: 2016. **I.F.2.10**

19. B. Chandramohan, K. Murugan, C.Panneerselvam, P.Madhiyazhagan, D. Dinesh, M. S. AlSalhi, **S.Devanesan**, Hui Wei, G.Benelli. Characterization and mosquitocidal potential of neem cake-synthesized silver nanoparticles: genotoxicity and impact on predation efficiency of mosquito natural enemies. Parasitology research 115 (3), 1015-1025. **I.F.2.10**

18. K. Murugan, D. Nataraj, P. Madhiyazhagan, V. Sujitha, B. Chandramohan, C.Panneerselvam J. Subramaniam, M.Paulpandi, C.M. S. AlSalhi,**S. Devanesan**,A. Canale, G. Benelli. Carbon and silver nanoparticles in the fight against the filariasis vector Culex uinquefasciatus: genotoxicity and impact on behavioral traits of non-target aquatic organisms. Parasitology research 115 (3), 1071-1083. **I.F.2.10**

- 17.** Al-Khalid Isam Zuhaiier, K. Mohammad, **S.Devanesan**, M. S. AlSalhi, S. Prasad, V. Masilamani. Shelf-life enhancement of donor blood by He–Ne laser biostimulation. **Current Science**, 109 (6), 1151-1154: 2015. **I.F.0.96**.
- 16.** P. Mahesh Kumar, K. Murugan, P.Madhiyazhagan, K. Kovendan, D. Amerasan, B. Chandramohan, D. Dinesh, M. S. AlSalhi, **S.Devanesan**, Hui Wei, G. Benelli. Biosynthesis, characterization, and acute toxicity of Berberis tinctoria-fabricated silver nanoparticles against the Asian tiger mosquito, Aedes albopictus, and the mosquito predators Toxorhynchites splendens and Mesocyclops thermocyclopoides. **Parasitology Research**, (2016),115 (2), 751-759. **I.F.2.10**
- 15.** K.Murugan, P.Arana, C. Panneerselvam, P.Madhiyazhagan, M.Paulpandi, J. Subramaniam, M.S. AlSalhi, **S. Devanesan**, M. Nicoletti, Giovanni Benelli. Fighting arboviral diseases: low toxicity on mammalian cells, dengue growth inhibition (in vitro) and mosquitocidal activity of Centroceras clavulatum-synthesized silver nanoparticles. **Parasitology Research**,(2016), 115 (2), 651-662. **I.F.2.10**
- 14.** C. Vadivalagan, P. Karthika, K. Murugan, C. Panneerselvam, M. Paulpandi, P. Madhiyazhagan, M. S.AlSalhi, **S. Devanesan**, R. Paramasivan, D. Dinesh, G. Benelli. Genetic deviation in geographically close populations of the dengue vector Aedes aegypti (Diptera: Culicidae): influence of environmental barriers in South India. Parasitology research. 115 (3); 2016: 1149-1160. **I.F.2.10**
- 13.** K. Murugan, D. Dinesh, K. Kavitha, M.Paulpandi, T. Ponraj, M. S.AlSalhi, **S. Devanesan**, M. Nicoletti, G. Benelli. Hydrothermal synthesis of titanium dioxide nanoparticles: mosquitocidal potential and anticancer activity on human breast cancer cells (MCF-7). Parasitology research. 115 (3); 2016: 1085-1096. . **I.F.2.10**.
- 12.** M. Atif, M. S. AISalhi, **S. Devanesan**, V. Masilamani, Spectral characteristics of Breast Cancer, IEEE, (2014) 199-201.
- 11.** V. Masilamani, **S.Devanesan**, M. Ravikumar, K. Perinbam,M.S. AlSalhi, S. Prasad, S. Palled, K.M. Ganesh, Abbas H.Saeed. “Fluorescence spectral diagnosis of malaria – a preliminary study. **Diagnostic Pathology** 19:182, 2014. **I.F 2.41**
- 10.** M. S. AlSalhi, M. Atif, **S. Devanesan**, K. Farhat, D. Rabah V. Masilamani, Amera, Hassan Abol-Enein “Preliminary study of bladder cancer patients using spectral techniques” **J Optoelectronics And Advanced Materials**, 16,(9-10), 2014, 1191 – 1195. **I.F. 0.58**

- 9.** R.Kalaivani, V. Masilamani, M.S. AlSalhi, **S.Devanesan**, P.Ramamurthy S. Palled, K.M. Ganesh “Cervical Cancer detection by Time Resolved Spectra of blood components” **Journal of Biomedical Optics 19 (5), 2014, 057011-16, I.F. 2.88**
- 8. S. Devanesan**, M.S. AlSalhi, M. Ravikumar, K. Perinbam,S. Prasad, Abbas, S.R. Palled, K. Jeyaprakash, V. Masilamani “Fluorescence spectral classification of iron deficiency anemia and thalassemia” **Journal of Biomedical Optics 19(2), (2014): 027008-14 I.F. 2.88**
- 7.** M. S. AlSalhi, **S. Devanesan** , Farjah H AlGahtani, Trinka V Vijmasi, K. Jeyaprakash, V. Masilamani “Spectral detection of Thalassemia: a preliminary study” **Journal of Biomedical Science 2014, 21:26: 1-5 I.F:2.68**
- 6.** V. Masilamani M.S. Al Salhi , **S. Devanesan**, Farjah H. AlGahtani, Khalid M. Abu—Salah, I. Ahamad, P. Agastian “Spectral detection of sickle cell anemia and thalassemia” **Photodiagnosis and Photodynamic Therapy 10, (2013): 429—433 I.F. 2.55**
- 5.** V. Masilamani, B.B. Das, J. Secor, M. AlSalhi, **S.Devanesan**, .S.Prasad, D. Rabah, R. R. Alfano “Optical Biopsy of benign and malignant tissue by time resolved spectroscopy.” **Technology in Cancer Research & treatment. 12, (6), (2013): 559-563 I.F 1.88**
- 4.** M. Atif, **S. Devanesan**, M. S. AlSalhi, V. Masilamani, K. Farhat, D. Rabah “Spectral features of the body fluids of patients with benign and malignant prostate tumours” **Laser Physics 23 (2013): 055602 I.F. 3.65**
- 3** “A parallelism between spectral grading and Gleason grading of malignant prostate tissues” **Photodiagnosis and Photodynamic Therapy 10, (2013): 168—172, I.F:2.52**
- 2.** M. S. AlSalhi, S. Ben Amer, K. Farhat, D. Rabah, **S. Devanesan**, M. Atif, V. Masilamani., “Optical Biopsy of Breast Cancer tissue” Laser physics- Vol 22 Aug , pp. 1358–1363- 2012 (I.F 3.65)
- 1.** **S. Devanesan**, P. Suganyadevi G, Mohan Dass “Antifungal activity of *pterocarpus santalinus* an in vitro study”. **J. Biomedical and pharmacology Vol 3 (1) 2010**

List Research papers Under Review

1. S. Devanesan, M. Jayamala, A.J. Ranjith Singh, S.Umamaheswari, M.S. AlSalhi. Antibacterial and antitumor potential of silver nanocrystals prepared from the biological molecule di-methyl flubendazole: A novel drug for biomedical applications. Journal of Drug Delivery Science and Technology. [JDDST_2019_1747](#)

2. B. Fahimmnisha, R. Ishwarya, M. AlSalhi, **S. Devanesan**. Green fabrication, characterization and antibacterial potential of zinc oxide nanoparticles using Aloe socotrina leaf extract: A novel drug delivery approach. Journal of Drug Delivery Science and Technology. [JDDST_2019_1707](#)

3. A.Prakash, S. Abilaji, **S. Devanesan**,A. Rajasekar, M. S. AlSalhi, Bacterial Community Analysis of Biofilm on API 5LX Carbon Steel in an Oil Reservoir Environment. Biofouling - Manuscript ID GBIF-2019-0170.R1

4.M.Atif, **S. Devanesan**, M. S. AlSalhi Synthesis of NiO nanoparticles and their evaluation for photodynamic therapy against HeLa cancer cells. Manuscript Number: [JKSUS-D-19-00332R3](#)

5. P. Dhandapani, J. Narenkumar, S. Devanesand, S.Maruthamuthu, M. S. AlSalhi, A. Rajasekar Novel synthesis of ZnO by Ice-cube method for photo-inactivation of E. coli. SaudiPharmaceutical Journal. [SPJ-D-19-01364](#)

6. Yousef A. Alsabah, M. S. AlSalhi, Eltayeb M. Mustafa, A. A. Elbadawi, S. Devanesan. Synthesis, phase transition and optical studies of Ba_{2-x} Sr_xZnWO₆ (x = 1.00, 1.25, 1.50, 1.75, 2.00) tungsten double perovskite oxides. Optical materials [OM-D-19-01722](#).

7. Yousef A. Alsabah, M. S. AlSalhi, Eltayeb M. Mustafa, S. Devanesan. Ureolytic bacteria mediated synthesis of hairy ZnO nanostructure as photocatalyst for decolorizationof dyes. [MATCHEMPHYS-D-19-03912](#).

Paper Under Preparation

1. S. Devanesan, M. S. AlSalhi, Cytotoxic, and Antimicrobial efficacy of silver nanoparticles using mediation of a traditional phytoproduct , Asafoetida gum.

2. M. Atif, **S.Devanesan**,. M.S.AlSalhi, Young Ock Kim. Methylxanthine derivatives crosslinkedO-carboxymethyl chitosan nanoparticles enhances delivery efficiency of anticancer drug, doxorubicin

3. S. Devanesan, M. S. AlSalhi, A.J.A. Rangith Singh. Challenging multidrug resistant bacterial isolates of urinary tract infection through a medicinal plant tridax procumbens bio- inspired silver nanoparticles.

4. **S. Devanesan**, A. Rajasekar, M. S. AlSalhi, Antimicrobial and cytotoxicity Evaluation on nano-silver Doped calcium hydroxyapatite composites using biological activated ammonia from synthetic urine

Papers Participated International Conference:

- ❖ Akram A. Alfuraydi, **S.Devanesan**, M.S. AlSalhi. "Synthesis of silver nanoparticles using Pimpinella anisum seeds extract". **Nano Today , Dubai December 2015.**
- ❖ V. Masilamani, **S.Devanesan**, M.Al Salhi, Farjah H. AlGahtani, M.Trinka Vijmasi. "Spectral pathology of Thalassemia – a preliminary Study" the 35 th annual international conference **onIEEE Engineering in Medicine and Biology Society Japan. Feb 5- 2013.**
- ❖ V.Vahitha, A.Jamal Mohamed, S.Kadar Basha, **S.Devanesan**, M.S.AlSalhi, V.Masilamani, "White biotechnology from green waste **Camellia Sinensis . L**" International Conference on "Traditional Medicine: The Untapped Treasure In Modern Drug Discovery" Jan 30-31-2013 Chennai- India
- ❖ M. AlSalhi, D. Rabah, S. Ben Amer, K. Farhat, **S. Devanesan**, M. Atif, V. Masilamani Optical Biopsy of Breast cancer tissue" International conference on laser Physics - July 2011 Bosnia
- ❖ **S.Devanesan**, Mohamad Saleh AlSalhi, V. Masilamani, P .Augustine. International Conference on Impact of Biotechnology in Health care and Industry Participated in Oral-Spectral Diagnosis of Sickle Cell Anemia and Thalassemia- India- 21- Dec- 2011
- ❖ **S. Devanesan**. "Anti Microbial Activity of **Toddalia Asiatica**. International conference Medicinal plants –" Pachiyapa's College Chennai. March 3rd- 6- 2010

Training Program:

- ❖ "Biochemical And Advanced Biotechnology Techniques" from Loyola College and Marina Labs Chennai Period August 3rd - 18, -2012.
- ❖ "Microbiology Techniques and Tissue Culture Techniques" from Marina Labs Chennai- period 5 Dec- 13 Dec 2011

Conferences/Seminars/Symposia/workshops organized and attended :

- ❖ The 3rd Saudi International Nanotechnology Conference (2SINC) 2015
- ❖ The 2nd Saudi International Nanotechnology Conference (2SINC) 2012 Nov - 11-13- 2012
- ❖ "Effective use of Spectroscopy" **Organizer** – Laser Diagnosis of Cancer Chair , King Saud University. April 4 and 7 2012.

- ❖ BEST 2009- Sathyabama university, Chennai, Aug10-11-2009
- ❖ Recent Trends and Emerging Scenario in Biomedical Engineering – Sathyabama University, Chennai, Aug 4-6-2008
- ❖ PCR & Biochemistry Techniques- St. Joseph's College Trichy-2003

Relevant Skills

- ❖ Plant, Animal and Microbial cell culture techniques: maintaining cell cultures
- ❖ Analytical Techniques: Spectrophotometry and Spectrofluorimetry
- ❖ Electrophoretic techniques: SDS PAGE, Agarose gel
- ❖ Immunological techniques: ELISA, Western blot
- ❖ Microbial Bioprocess Techniques: Fermentation Technology (Hands on experience with Bioreactor [Fermentor], Submerged and Solid-State Fermentation) and Lab Management
- ❖ Computer Skills: Microsoft Office, Research Paper preparation

Professional Experience

Dr Reddy's Laboratories : Scientific Business Officer-2009-2010

- ❖ Demonstrate comprehensive domain understanding capabilities to the client by assessing needs, identifying and recommending Respiratory Products

Indian NONI Food Manufacturing Company

- ❖ Asst. Production Manager - Maintain the production units
- ❖ Stock handling and quality Analyzing Team

Hospital

- ❖ Laser and Laparoscopic as a biochemist Aug 2005- Feb2006
- ❖ All biological tests (Cancer, D.M , etc.)

Teaching Experience

- ❖ Teaching Undergraduate students
- ❖ Biochemical practical work in college Laboratory

PERSONAL DETAILS

Gender : Male

Father's Name : S. Sandhana Samy

Marital Status : Married

Present Address : Umal Haman- Riyadh

Permanent Address: 410, Eari Chathiram, Thukkachi (Post)

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REFERENCES

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