

بسم الله الرحمن الرحيم

السيرة الذاتية

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استاذ - قسم الكيمياء الحيوية - كلية العلوم - جامعة الملك سعود



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عنوان رسالة الماجستير: دراسة انزيم (HMGCoA reductase) لدى مرضى ارتفاع الكوليسترول

الوراثي

"A study of HMGCoA reductase in FH patients"

درجة الدكتوراه :

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تاريخ الحصول على الدرجة: 13 / 2 / 1416 هـ الموافق: 12 / 7 / 1995 م

عنوان رسالة الدكتوراه: دراسة حيوية جزيئية لأيض الكوليسترول في الانسان.

"Molecular Biology of Cholesterol Metabolism in Humans"

التخصص الدقيق: كيمياء حيوية/كيمياء حيوية جزيئية

3- الإنتاج العلمي

براءات الاختراع:

- 1) Mouffouk Fouzi, Abu-Salah Khalid M, **Alrokayan Salman A**: *Biotracer and its use in an immunoassay*. Ref. No: EP 2 653 867 A1, Year: 10/2013
- 2) **Salman A. Alrokayan** (SA) Khalid M. Abu-Salah (SA, Abdullah M. I. Mashhour: "*BIOIMAGING NUCLEIC ACIDS, PROTEINS AND ENZYMES*". Ref. No: WO/2013/074077, Year: 05/2013
- 3) Munir H. Nayfeh, **Salman A. H. Alrokayan**: *Luminescent silicon nanoparticle-polymer composites, composite wavelength converter and white LED*. Ref. No: 8076410, Year: 12/2011
- 4) MOUFFOUK, Fouzi, RODRIGUES DOS SANTOS, Nuno, **ALROKAYAN, Salman**, DA COSTA, Ana M. Rosa: *A NANOPARTICLE COMPRISING A MICELLE FORMED BY AN AMPHIPHILIC BLOCKCOPOLYMER AND ENCAPSULATING A GADOLINIUM COMPLEX*. Year: 09/2011
- 5) NAYFEH Munir H., MALKAWI Hanan I., AL-OLAYAN Ebtessam Mohammed, AIGHAMDI Khalid Mohammad, **ALROKAYAN Salman A H.**: *ORGANOSILICON COMPOUNDS, FATTY ACIDS AND OILS WITH HOMOGENOUS SILICON NANOPARTICLE DISPERSIONS*. Year: 05/2010

الكتب:

- 1) Anna Speranza, Kerstin Leopold, Mamta Kumari, Vinita Ernest, Amitava Mukherjee, N. Chandrasekaran, Morteza Mahmoudi, Sophie Laurent, W. Shane Journey, Ângela Leao Andrade, Rosana Zacarias Domingues, José Domingos Fabris, Alfredo Miranda Goes, Lucas Reijnders, Lisa Bregoli, Stefano Pozzi-Mucelli, Laura Manodori, Sajjad Haider, Nausheen Bukhari, Adnan Haider, Ibrahim Abdulwahid Arif, Haseeb Ahmad Khan, **Salman Alrokayan**, Abdullah Saleh Alhomida, Mohammad Abdul Bakir, Fatima Khanam: *Toxic Effects of Nanomaterials*. Edited by Haseeb Ahmad Khan, Ibrahim Abdulwahid Arif, 01/2011;
- 2) Mihail C. Roco Chad A. Mirkin Mark C. Hersam, contributed: Salman Alrokayan: *Nanotechnology Research Directions for Societal Needs in 2020*. Edited by Mihail C. Roco Chad A. Mirkin Mark C. Hersam, contributed: **Salman Alrokayan.**, 01/2010;



فصول من كتاب:

- 1) Amin Termeh Yousefi, Samira Bagheri, Kawasaki Shinji, **Salman A H Alrokayan**, Haseeb A Khan, Shoichiro Ikeda, M Rusop: *Chapter 12 Functionalized Carbon Nanotubes: Enhanced Direct Electron Transfer in Electrochemical Sensors*. Renewable Energy and Sustainable Developments, Edited by Yarub Al-Douri, 01/2014: chapter 12; Scientific & Academic Publishing, U S A..
- 2) M F Malek, M H Mamat, **Salman A H Alrokayan**, Haseeb A Khan, M Rusop: *Chapter 2 Crystallographic Orientation of ZnO Nanorod Array Thin Films*. Renewable Energy and Sustainable Developments, Edited by Yarub Al-Douri, 01/2014: chapter 2; Scientific & Academic Publishing, U S A.
- 3) M H Mamat, M F Malek, N D Md Sin, N N Hafizah, A B Suriani, J Rouhi, **Salman A H Alrokayan**, Haseeb A Khan, M Rusop: *Aluminium Doped Zinc Oxide Nanorod Array Ultraviolet Photoconductive Sensors*. Renewable Energy and Sustainable Developments, Edited by Yarub Al-Douri, 01/2014: chapter 9; Scientific & Academic Publishing, U S A..
- 4) Jalal Rouhi, M H Mamat, Shahrom Mahmud, **Salman A H Alrokayan**, Haseeb A Khan, M Rusop: *Nanogap Electrodes: Fabrication Techniques and Applications*. Renewable Energy and Sustainable Developments, Edited by Yarub Al-Douri, 01/2014: chapter 10; Scientific & Academic Publishing, U S A..
- 5) Puteri Sarah, Mohamad Saad, **Salman A H Alrokayan**, Haseeb A Khan, M Rusop: *Chapter 5 Multiwall Carbon Nanotubes in Semiconducting Conjugated Polymer Based Organic Solar Cells*. Renewable Energy and Sustainable Developments, Edited by Yarub Al-Douri, 01/2014: chapter 5; Scientific & Academic Publishing, U S A..

النشر العلمي:

1. M.M. Yusoff, M.H. Mamat, M.F. Malek, A.B. Suriani, A. Mohamed, M.K. Ahmad, **Salman A.H. Alrokayan**, Haseeb A. Khan, M. Rusop: *Growth of Titanium Dioxide Nanorod Arrays through the Aqueous Chemical Route under a Novel and Facile Low-Cost Method*. Materials Letters 11/2015; 164. DOI:10.1016/j.matlet.2015.11.014
2. Maqsood Ahamed, Mohd Javed Akhtar, Hisham A Alhadlaq, **Salman A Alrokayan**: *Assessment of the lung toxicity of copper oxide nanoparticles: Current status*. Nanomedicine 08/2015; 10(15):1-13. DOI:10.2217/nmm.15.72
3. Mohd Javed Akhtar, Hisham A Alhadlaq, Sudhir Kumar, **Salman A Alrokayan**, Maqsood Ahamed: *Selective cancer-killing ability of metal-based nanoparticles: implications for cancer therapy*. Archives of Toxicology 07/2015; 89(11). DOI:10.1007/s00204-015-1570-1
4. Mohd Javed Akhtar, Maqsood Ahamed, Hisham A Alhadlaq, Aws Alshamsan, M.A. Majeed Khan, **Salman A Alrokayan**: *Antioxidative and cytoprotective response*



- elicited by molybdenum nanoparticles in human cells*. Journal of Colloid and Interface Science 07/2015; 457:370-377. DOI:10.1016/j.jcis.2015.07.034
5. A.K. Shafura, N.D.Md. Sin, N.E.A. Azhar, M. Uzer, M.H. Mamat, **S.A.H. Alrokayan**, H.A. Khan, M. Rusop: *Sensitivity of nanostructured Al-doped ZnO-based CH₄ sensor fabricated using sol-gel method*.
 6. Z. Nurbaya, N.E.A. Azhar, L.N. Ismail, M.H. Wahid, **S.A.H. Alrokayan**, H.A. Khan, M. Rusop: *Fabrication of Spin Coating Deposited Nanofilms Lead Titanate for MFM Capacitor*.
 7. N.A.M. Asib, A.N. Afaah, A. Aadila, R. Mohamed, **S.A.H. Alrokayan**, H.A. Khan, M. Rusop, Z. Khusaimi: *Optical studies on the influence of annealing temperature of TiO₂ seed layer to the growth of ZnO nanostructures*.
 8. N.E.A. Azhar, S.S. Shariffudin, A.K. Shafura, Z. Nurbaya, **S.A.H. Alrokayan**, H.A. Khan, M. Rusop: *Electrical performance of MEH-PPV/ZnO nanocomposite at various weight percentage concentration prepared by spin coating method for OLED*.
 9. M.R. Mahmud, M.M. Akhir, M.S. Shamsudin, M.K. Harun, **S.A.H. Alrokayan**, H.A. Khan, M. Rusop, S. Abdullah: *Surface morphology and corrosion inhibitors of acrylate/carbon nanotubes nanocomposites coated on mild steel*.
 10. Kevin Alvin Eswar, Ajis Lepit, Rosfayanti Rasmidi, F.S. Husairi, A.N. Afaah, Abdul Aziz Noor Aadilla, N.A.M. Asib, Azlinda Aziz, Zuraida Khusaimi, **Salman A.H. Alrokayan**, Haseeb A. Khan, Mohamad Rusop, Saifollah Abdullah: *Seeded Porous Silicon Preparation as a Substrate in the Growth of ZnO Nanostructures*. 07/2015; 773-774:626-631. DOI:10.4028/www.scientific.net/AMM.773-774.626
 11. Hugo Pereira, Luísa Custódio, Maria João Rodrigues, Carolina Bruno de Sousa, Marta Oliveira, Luísa Barreira, Nuno Da, Rosa Neng, José Manuel, Florêncio Nogueira, **Salman A Alrokayan**, Fouzi Mouffouk, Khalid M Abu-Salah, Radhouan Ben-Hamadou, João Varela: *Biological Activities and Chemical Composition of Methanolic Extracts of Selected Autochthonous Microalgae Strains from the Red Sea*. Marine Drugs 06/2015; 13(6):3531-3549. DOI:10.3390/md13063531
 12. J Rouhi, F S Husairi, Kevin Alvin Eswar, **Salman A H Alrokayan**, Haseeb A Khan, M Rusop: *Vertical Growth of ZnO Nanocone Arrays on Polycarbonate Substrate by Voltage-Assisted Chemical Bath Deposition*. Advanced Materials Research 06/2015; 1109(1109):495-499. DOI:10.4028/www.scientific.net/AMR.1109.495
 13. J Rouhi, F S Husairi, Kevin Alvin Eswar, M H Mamat, **Salman A H Alrokayan**, Haseeb A Khan, M Rusop: *The Effect of Gap Width on Field Emission Properties of Lateral Silicon Diodes*. Advanced Materials Research 06/2015; 1109:505-508. DOI:10.4028/www.scientific.net/AMR.1109.505
 14. J Rouhi, M H Mamat, Kevin Alvin Eswar, F S Husairi, **Salman A H Alrokayan**, Haseeb A Khan, M Rusop: *Substrate Effect on Well-Aligned ZnO Nanorods Growth Using a Low Temperature Solution Method*. Advanced Materials Research 06/2015; 1109(1109):491-494. DOI:10.4028/www.scientific.net/AMR.1109.491
 15. Shafura Karim, Uzer Mohd Noor, Mohamad Hafiz Mamat, Abu Shuhaimi, Bakar, **Salman A H Alrokayan**, Haseeb A Khan, Mohamad Rusop, Shah Alam: *Structural Properties of Sn-Doped ZnO Thin Films Deposited on Glass Substrate Using Sol-Gel Immersion Method*. Advanced Materials Research 06/2015; 5. DOI:10.4028/www.scientific.net/AMR.1109.568
 16. J Rouhi, Kevin Alvin Eswar, F S Husairi, **Salman A H Alrokayan**, Haseeb A Khan, M Rusop: *Optimization of Linear Oxide Width Using Local Anodic Oxidation Lithography for Fabrication of Semiconductor and Metal Nanowires*. Advanced



- Materials Research 06/2015; 1109:500-504.
DOI:10.4028/www.scientific.net/AMR.1109.500
17. Ruziana Mohamed, Zuraida Khusaimi, A N Afaah, A Aadila, N A M Asib, A K Shafura, Kevin Alvin Eswar, Mohamad Hafiz Mamat, **Salman A H Alrokayan**, Haseeb A Khan, M Rusop: *Influence of Annealing on the Morphological and Optical Properties of Mg Doped ZnO Thin Film*. Advanced Materials Research 06/2015; 1109:539-543. DOI:10.4028/www.scientific.net/AMR.1109.539
 18. Shafura Karim, Shafeena Mohd Saad, Saurdi Ishak, Najwa Ezira, Ahmed Azhar, Ruziana Mohamed, Mohd Uzer, Noor, Mohamad Hafiz Mamat, Abu Shuhaimi, Bakar, **Salman A H Alrokayan**, Haseeb A Khan, Mohamad Rusop, Shah Alam: *Electrical and Structural Properties of Nanostructured Tin Doped Zinc Oxide Deposited by Sol-Gel Immersion Method*. Advanced Materials Research 06/2015; 5(1109):2454-11451. DOI:10.4028/www.scientific.net/AMR.1109.564
 19. Shafura Karim, Syukriyah Ismail, Saurdi Ishak, Najwa Ezira, Ahmed Azhar, Ruziana Mohamed, Uzer Mohd Noor, Mohamad Hafiz Mamat, Shuhaimi Abu Bakar, **Salman A H Alrokayan**, Haseeb A Khan, Mohamad Rusop: *Effect of Various Tin Doping Percentages on the Electrical and Structural Properties of Nanostructured Zinc Oxide Thin Films Deposited Using Sol-Gel Immersion Method for Gas Sensing Application*. Advanced Materials Research 06/2015; 5(1109):2015-1. DOI:10.4028/www.scientific.net/AMR.1109.554
 20. Irma Hidayanti, Halim Affendi, Najwa Ezira, Ahmed Azhar, Puteri Sarah, Mohamad Saad, **Salman A H Alrokayan**, Haseeb A Khan, Mohamad Rusop, Najwaezira@yahoo Com: *Electrical and Physical Property of TiO₂ Films Prepared at Different Deposition Time*. Advanced Materials Research 06/2015; 5(1109):524-528. DOI:10.4028/www.scientific.net/AMR.1109.524
 21. Shafura Karim, Uzer Mohd Noor, Mohamad Hafiz Mamat, Shuhaimi Abu Bakar, **Salman A H Alrokayan**, Haseeb A Khan, Mohamad Rusop: *Effect of Dopant Concentration on Electrical and Optical Properties of Sn-Doped ZnO Thin Films Deposited by Sol-Gel Immersion Method*. Advanced Materials Research 06/2015; 5(1109):491. DOI:10.4028/www.scientific.net/AMR.1109.549
 22. A N Afaah, N A M Asib, A Aadila, K A Eswar, M R Mahmud, **Salman A H Alrokayan**, Haseeb A Khan, R Mohamed, M Rusop, Z Khusaimi: *The effect of different molarities of precursor Zn(NO₃)₂.6H₂O to the growth of ZnO by solution-immersion deposited on ZnO seeded template*. IOP Conference Series Materials Science and Engineering 05/2015; 83(1). DOI:10.1088/1757-899X/83/1/012007
 23. A Aadila, A N Afaah, N A M Asib, M R Mahmud, **Salman A H Alrokayan**, Haseeb A Khan, R Mohamed, M Rusop, Z Khusaimi: *The Influence of Immersion Time to the Optical properties of ZnO Growth on PMMA-coated Substrate by Solution-Immersion Method*. IOP Conference Series Materials Science and Engineering 05/2015; 83(1). DOI:10.1088/1757-899X/83/1/012005
 24. M R Mahmud, M M Akhir, M S Shamsudin, A N Afaah, A Aadila, N A M Asib, **Salman A H Alrokayan**, Haseeb A Khan, M K Harun, M Rusop, S Abdullah: *Electrochemical Impedance Spectroscopy Study on Corrosion Protection of Acrylate Nanocomposite on Mild Steel Doped Carbon Nanotubes*. IOP Conference Series Materials Science and Engineering 05/2015; 83(1). DOI:10.1088/1757-899X/83/1/012004
 25. N A M Asib, A N Afaah, A Aadila, M R Mahmud, Y C Lim, **Salman A H Alrokayan**, Haseeb A Khan, M Rusop, Z Khusaimi: *Effect of molarity of TiO₂*



- seeded-template to the growth of ZnO nanostructures*. IOP Conference Series Materials Science and Engineering 05/2015; 83(1). DOI:10.1088/1757-899X/83/1/012006
26. M. A. Majeed Khan, Sushil Kumar, Maqsood Ahamed, **Salman A. Alrokayan**: *Fe-doping induced tailoring in the microstructure and optical properties of ZnO nanoparticles synthesized via sol-gel route*. Journal of Materials Science Materials in Electronics 05/2015; 26(8). DOI:10.1007/s10854-015-3190-1
27. Maqsood Ahamed, Mohd Javed Akhtar, Hisham A Alhadlaq, M A Majeed Khan, Salman A Alrokayan, Comparative cytotoxic response of nickel ferrite nanoparticles in human liver HepG2 and breast MFC-7 cancer cells. *Chemosphere* 05/2015; 135:278-288. DOI:10.1016/j.chemosphere.2015.03.079 · 3.50 Impact Factor
28. Mohd Javed Akhtar, Maqsood Ahamed, Hisham A Alhadlaq, M A Majeed Khan, Salman A Alrokayan, Glutathione replenishing potential of CeO₂ nanoparticles in human breast and fibrosarcoma cells, *Journal of Colloid and Interface Science* 04/2015; 453:21-27. DOI:10.1016/j.jcis.2015.04.049 · 3.55 Impact Factor
29. Maqsood Ahamed, Mohd Javed Akhtar, M A Majeed Khan, Hisham A Alhadlaq, Salman A Alrokayan, Cytotoxic response of platinum-coated gold nanorods in human breast cancer cells at very low exposure levels: Cytotoxic response of platinum coated gold nanorods in human breast cancer cells, *Environmental Toxicology* 04/2015; DOI:10.1002/tox.22140 · 2.56 Impact Factor
30. Irma Hidayanti, Halim Affendi, Najwa Ezira, Ahmed Azhar, Puteri Sarah, Mohamad Saad, **Salman A H Alrokayan**, Haseeb A Khan, Mohamad Rusop, Najwaezira@yahoo Com: *Electrical and Physical Property of TiO₂ Films Prepared at Different Deposition Time*. *Advanced Materials Research* 01/2015; 5(1109):524-528.
31. J Rouhi, F S Husairi, K A Eswar, M H Mamat, **Salman A H Alrokayan**, Haseeb A Khan, M Rusop: *The Effect of Gap Width on Field Emission Properties of Lateral Silicon Diodes*. *Advanced Materials Research* 01/2015; 1109:505-508.
32. Shafura Karim, Uzer Mohd Noor, Mohamad Hafiz Mamat, Shuhaimi Abu Bakar, **Salman A H Alrokayan**, Haseeb A Khan, Mohamad Rusop: *Effect of Dopant Concentration on Electrical and Optical Properties of Sn-doped ZnO Thin Films Deposited by Sol-Gel Immersion Method*. *Advanced Materials Research* 01/2015; 5(1109):491.
33. Shafura Karim, Syukriyah Ismail, Saurdi Ishak, Najwa Ezira, Ahmed Azhar, Ruziana Mohamed, Uzer Mohd Noor, Mohamad Hafiz Mamat, Shuhaimi Abu Bakar, **Salman A H Alrokayan**, Haseeb A Khan, Mohamad Rusop: *Effect of Various Tin Doping Percentages on the Electrical and Structural Properties of Nanostructured Zinc Oxide*



Thin Films Deposited using Sol-Gel Immersion Method for Gas Sensing Application. Advanced Materials Research 01/**2015**; 5(1109):2015-1.

34. J Rouhi, M H Mamat, K A Eswar, F S Husairi, **Salman A H Alrokayan**, Haseeb A Khan, M Rusop: *Substrate Effect on Well-Aligned ZnO Nanorods Growth Using a Low Temperature Solution Method.* Advanced Materials Research 01/**2015**;
35. J Rouhi, K A Eswar, F S Husairi, **Salman A H Alrokayan**, Haseeb A Khan, M Rusop: *Optimization of Linear Oxide Width Using Local Anodic Oxidation Lithography for Fabrication of Semiconductor and Metal Nanowires.* Advanced Materials Research 01/**2015**; 1109:500-504
36. Shafura Karim, Shafeena Mohd Saad, Saurdi Ishak, Najwa Ezira, Ahmed Azhar, Ruziana Mohamed, Mohd Uzer, Noor, Mohamad Hafiz Mamat, Abu Shuhaimi, Bakar, **Salman A H Alrokayan**, Haseeb A Khan, Mohamad Rusop, Shah Alam: *Electrical and Structural Properties of Nanostructured Tin doped Zinc Oxide Deposited by Sol-Gel Immersion Method.* Advanced Materials Research 01/**2015**; 5(1109):2454-11451.
37. Shafura Karim, Uzer Mohd Noor, Mohamad Hafiz Mamat, Abu Shuhaimi, Bakar, **Salman A H Alrokayan**, Haseeb A Khan, Mohamad Rusop, Shah Alam: *Structural Properties of Sn-doped ZnO Thin Films Deposited on Glass Substrate Using Sol-Gel Immersion Method.* Advanced Materials Research 01/**2015**; 5.
38. R Mohamed, Z Khusaimi, A N Afaah, A Aadila, N A M Asib, A K Shafura, K A Eswar, M H Mamat, **Salman A H Alrokayan**, Haseeb A Khan, M Rusop: *Influence of Annealing on the Morphological and Optical Properties of Mg Doped ZnO Thin Film.* Advanced Materials Research 01/**2015**; 1109:539-543.
39. J Rouhi, F S Husairi, K A Eswar, **Salman A H Alrokayan**, Haseeb A Khan, M Rusop: *Vertical Growth of ZnO Nanocone arrays on polycarbonate Substrate by voltage-assisted chemical bath deposition.* Advanced Materials Research 01/**2015**;
40. Fouzi Mouffouk, Teresa Simão, Daniel F Dornelles, André D Lopes, Pablo Sau, Jorge Martins, Khalid M Abu-Salah, **Salman A Alrokayan**, Ana M Rosa Da Costa, Dos Santos: *Self-assembled polymeric nanoparticles as new, smart contrast agents for cancer early detection using magnetic resonance imaging.* International Journal of Nanomedicine 12/2014; **2015**10:63-76. DOI:10.2147/IJN.S71190
41. Jalal Rouhi, K.A. Eswar, F. S. Husairi, Ramazanali Dalvand, **Salman A.H. Alrokayan**, M. Rusop Mahmood, S. Abdullah: *Hydrothermal growth of flower-like ZnO nanostructures on porous silicon substrate.* Journal of Molecular Structure 06/2014; 1074. DOI:10.1016/j.molstruc.**2014**.05.067



42. Khalid Abu-salah, Mohammed Zourob, Fouzi Mouffouk, **Salman A Alrokayan**, Ahamad Imran, Anees A Ansari: *DNA-based Nanobiosensors as an Emerging Platform for Detection of Disease*. *Sensors and Actuators B Chemical* 05/2014;
43. M. F. Malek, M.H. Mamat, M.Z. Musa, T. Soga, S.A. Rahman, **Salman A.H. Alrokayan**, Haseeb A. Khan, M. Rusop: *Metamorphosis of strain/stress on optical band gap energy of ZAO thin films via manipulation of thermal annealing process*. *Journal of Luminescence* 01/2014; 160. DOI:10.1016/j.jlumin.2014.12.003
44. K.A. Eswar , Jalal Rouhi , F.S. Husairi, Ramazanali Dalvand, **Salman A.H. Alrokayan** , Haseeb A. Khan , M. Rusop Mahmood , S. Abdullah. "Hydrothermal growth of flower-like ZnO nanostructures on porous silicon substrate " *JOURNAL OF MOLECULAR STRUCTURE* Volume: 1074 Pages: 140-143 Published: SEP 25 2014.
45. Mohd Javed Akhtar, Maqsood Ahamed, Hisham A Alhadlaq, **Salman A Alrokayan**, Sudhir Kumar, "Targeted anticancer therapy: Overexpressed receptors and nanotechnology", *Clinica Chimica Acta* 05/2014; · 2.85 Impact Factor.
46. Khalid Abu-salah, Mohammed Zourob, Fouzi Mouffouk, **Salman A Alrokayan**, Ahamad Imran, Anees A Ansari, " DNA-based Nanobiosensors as an Emerging Platform for Detection of Disease", *Sensors and Actuators B Chemical* 05/2014; · 3.54 Impact Factor
47. Fei Ye, Asa Barrefelt, Heba Asem, Manuchehr Abedi-Valugerdi, Ibrahim El-Serafi, Maryam Saghafian, Khalid Abu-Salah, **Salman Alrokayan**, Mamoun Muhammed, Moustapha Hassan "Biodegradable polymeric vesicles containing magnetic nanoparticles, quantum dots and anticancer drugs for drug delivery and imaging". *BIOMATERIALS* Volume: 35 Issue: 12 Pages: 3885-3894 Published: APR 2014· 7.60 Impact Factor
48. Mohd Javed Akhtar, Maqsood Ahamed, M A Majeed Khan, **Salman A Alrokayan**, Iqbal Ahmad, Sudhir Kumar, "Cytotoxicity and apoptosis induction by nanoscale talc particles from two different geographical regions in human lung epithelial cells". *ENVIRONMENTAL TOXICOLOGY* Volume: 29 Issue: 4 Pages: 394-406 Published: APR 2014· 2.41 Impact Factor.
49. Mohammad Javed Akhtar, Sudhir Kumar, Hisham A Alhadlaq, **Salman A Alrokayan**, Khalid M Abu-Salah, Maqsood Ahamed "Dose-dependent genotoxicity of copper oxide nanoparticles stimulated by reactive oxygen species in human lung epithelial cells", *Toxicology and Industrial Health* 12/2013; · 1.56 Impact Factor
50. Hugo Pereira, Luísa Barreira, Luísa Custódio, **Salman Alrokayan**, Fouzi Mouffouk, João Varela, Khalid M. Abu-Salah, Radhouan Ben-Hamadou "Isolation



and Fatty Acid Profile of Selected Microalgae Strains from the Red Sea for Biofuel Production". *Energies* 05/2013; 6(6):2773-2783. · 1.87 Impact Factor.

51. Mahmoud Farouk, **Salman A. Alrokayan**, Ahamad Imran, Khalid M. Abu-Salah, Mohamed Ghazzali, Khalid A. Al-Farhan, Salem El-Gohary, Mamdouh Adly, "Facile synthesis of 3-substituted quinazoline-2,4-dione and 2,3-di-substituted quinazolinone derivatives". *Chemical Papers* 01/2013; 67(2):229 - 235.
52. Anees A. Ansari, Joselito P. Labis, **Salman A. H. Alrokayan**, "Synthesis of water-soluble luminescent LaVO₄:Ln³⁺ porous nanoparticles". *Journal of Nanoparticle Research* 07/2012; 14(8). 3.29 Impact Factor.
53. Anees A Ansari, M A M Khan, M Alhoshan, S A Alrokayan, M S Alsalhi, "Nanoporous characteristics of sol-gel-derived ZnO thin film" *Journal of Semiconductors* 05/2012; 33(4).
54. Javed Ahmad, Maqsood Ahamed, Mohd Javed Akhtar, **Salman A. Alrokayan**, Maqsood A. Siddiqui, Javed Mussarat, Abdulaziz A. Al-Khedhairi. "Apoptosis induction by silica nanoparticles mediated through reactive oxygen species in human liver cell line HepG2". *Toxicology and Applied Pharmacology*, 03/2012; 259(2):160-8. 4.45 Impact Factor.
55. Mohd Javed Akhtar, Maqsood Ahamed, Sudhir Kumar, MA Majeed Khan, Javed Ahmad, **Salman A Alrokayan**, "Zinc oxide nanoparticles selectively induce apoptosis in human cancer cells through reactive oxygen species", *International Journal of Nanomedicine* 02/2012; 3.13 Impact Factor
56. Mohd Javed Akhtar, Maqsood Ahamed, Mohd Fareed, **Salman A. Alrokayan**, Sudhir Kumar. "Protective effect of sulphoraphane against oxidative stress mediated toxicity induced by CuO nanoparticles in mouse embryonic fibroblasts BALB 3T3". *The Journal of Toxicological Sciences* 02/2012; 37(1):139-48. 1.52 Impact Factor
57. Maqsood A Siddiqui, Maqsood Ahamed, Javed Ahmad, M. A. Majeed Khan, Javed Musarrat, Abdulaziz A Al-Khedhairi, **Salman A Alrokayan**. "Nickel oxide nanoparticles induce cytotoxicity, oxidative stress and apoptosis in cultured human cells that is abrogated by the dietary antioxidant curcumin". *Food and chemical toxicology: an international journal published for the British Industrial Biological Research Association* 01/2012; 50(3-4):641-7. 2.99 Impact Factor.
58. M A Majeed Khan, Sushil Kumar, M S Alsalhi, Maqsood Ahamed, Mansour Alhoshan, **Salman A Alrokayan**, Tansir Ahamad "Morphology and non-isothermal crystallization kinetics of CuInS₂ nanocrystals synthesized by solvo-thermal method". *Materials Characterization* 01/2012; · 1.57 Impact Factor



59. Abdalrahim F. A Aisha, Khalid M. Abu-Salah, **Salman A. Alrokayan**, Zhari Ismail, Amin Malik Shah Abdul Majid. "Evaluation of Antiangiogenic and Antioxidant Properties of *Parkia Speciosa* Hassk Extracts". *Pak. J. Pharm. Sci.*, 01/2012; 25(1):7-14. · 1.10 Impact Factor.
60. M. Farouk, **Salman. A Alrokayan**, Ahamad Imran, Abu-Salah KM. "One-pot synthesis and luminescent spectra of 3-allyl substituted quinazoline-2,4- dione derivatives as allyl capping agents". *Chemical Papers* 66 (1) 75-78 (1/2012).
61. Abdalrahim F. A. Aisha, Khalid M. Abu-Salah, **Salman A. Alrokayan**, Mohammad J. Siddiqui, Zhari Ismail, Amin Malik Shah Abdul Majid. "Syzygium aromaticum extracts as good source of betulinic acid and potential anti-breast cancer". *Brazilian Journal of Pharmacognosy*, March 2012. 22(2):335-343. · 3.46 Impact Factor
62. Zeyad D Nassar, Abdalrahim F. A. Aisha, Norshirin Idris, Mohammed B Khadeer Ahamed, Zhari Ismail, Khalid M Abu-Salah, **Salman A Alrokayan**, Amin Malik Shah Abdul Majid. *Koetjapic acid, a natural triterpenoid, induces apoptosis in colon cancer cells*". *ONCOLOGY REPORTS* 27: 727-733, 2012 · 1.84 Impact Factor.
63. M.A. Majeed Khan, Sushil Kumar, Maqusood Ahamed, **Salman A. Alrokayan**, M.S. Alsalhi, Mansour Alhoshan, A.S. Aldwayyan. "Structural and spectroscopic studies of thin film of silver nanoparticles". *Applied Surface Science* 2011, 257, 10607-10612. · 2.10 Impact Factor
64. Khan MAM, Kumar S, Ahamed M, **Alrokayan SA**, AlSalhi MS. "Structural and thermal studies of silver nanoparticles and electrical transport study of their thin films". *Nanoscale Research Letters* 06/2011; 6:434. · 2.73 Impact Factor
65. Anees A. Ansari, Manawwer Alam, Joselito P. Labis, **S. A. Alrokayan**, Gowhar Shafi, T. N. Hasan, N. A. Syed, Ali A. Alshatwi. "Luminescent mesoporous LaVO₄:Eu³⁺ core-shell nanoparticles: synthesis, characterization, biocompatibility and their cytotoxicity". *Journal of Materials Chemistry* 06/2011; 21:2011. · 5.97 Impact Factor
66. Maqusood Ahamed, Mohd J Akhta, Mohan Raja, Iqbal Ahmad, M.K.J Siddiqui, Mohammad S AlSalhi, **Salman A Alrokayan**. "ZnO nanorod-induced apoptosis in human alveolar adenocarcinoma cells vis p53, surviving and bax/bcl-2 pathways: Role of oxidative stress". *Nanomedicine: nanotechnology, biology, and medicine* 05/2011; 7(6):904-13. · 5.44 Impact Factor
67. Anees A. Ansari, M. A. M. Khan, M. Naziruddin Khan, **Salman A. Alrokayan**, M. Alhoshan, M.S. Alsalhi. "Optical and electrical properties of electrochemically deposited polyaniline/CeO₂ hybrid nanocomposite film". *Journal of Semiconductors*, Vol. 32, No.4, 2011.
68. Maqusood Ahamed, M.A. Majeed Khan, M.K.J. Siddiqui, Mohamad S. AlSalhi, **Salman A. Alrokayan**. "Green synthesis, characterization and evaluation of



- biocompatibility of silver nanoparticles". Physica E: Low Dimensional Systems and Nanostructures 2011, 43: 1266-1271. · 1.53 Impact Factor.*
69. Kevin Mantey, Munir H. Nayfeh, Bahjat Al-Hreish, Jack Boparai, Ashok Kumar, Larry D. Stephenson, Andrew J. Nelson, **Salman A. Alrokayan** and Khalid M. Abu-Salah. "Silicon nanoparticle-functionalized fiberglass pads for sampling". *Journal of Applied Physics* 03/2011; 109(6):064321-064321-4. · 2.17 Impact Factor.
70. Aslam Khan, Ahmed Mohamed El-Toni, **Salman Alrokayan**, Mohamad Alsalhi, Mansour Alhoshan, Abdullah S. Aldwayyan. "Microwave-assisted synthesis of silver nanoparticles using poly-N-isopropylacrylamide/ acrylic acid microgel particles". *Colloids and Surfaces A Physicochemical and Engineering Aspects* 03/2011; 377(s 1–3): 356–360. · 2.24 Impact Factor.
71. Maqsood Ahamed, Mohd Javed Akhtar, Maqsood A Siddiqui, Javed Ahmad, Javed Musarrat, Abdulaziz A Al-Khedhairi, Mohamad S AlSalhi, Salman A Alrokayan, "Oxidative stress mediated apoptosis induced by nickel ferrite nanoparticles in cultured A549 cells". *Toxicology* 03/2011; 283(2-3):101-8. · 3.68 Impact Factor.
72. Fouzi Mouffouk, Ana M Rosa da Costa, Martins, Mohammed, Khalid Mustafa Abu-Salah, Salman A Alrokayan. " Development of a highly sensitive bacteria detection assay using fluorescent pH-responsive polymeric micelles". *Biosensors & bioelectronics* 03/2011; 26(8):3517-23. · 5.43 Impact Factor.
73. Abdalrahim F.A. Aisha, Zeyad D. Nassar, Mohammad J. Siddiqui, Khalid M. Abu-Salah, **Salman A. Alrokayan**, Zhari Ismail and Amin Malik Shah Abdul Majid. "Evaluation of Antiangiogenic, Cytotoxic and Antioxidant Effects of *Syzygium aromaticum* L. Extracts". *Asian Journal of Biological Sciences* 4(3): 282-290,2011.
74. **Salman Alrokayan**. "Chemical synthesis of a recombination human granulocyte colony stimulating factor (rhG-CSF) cDNA and its expression analysis". *Genetics and molecular research: GMR* 01/2011; 10(4):2671-8. · 1.18 Impact Factor
75. Zeyad D Nassar, Abdalrahim F.A Aisha, Mohammed B.K. Ahamed, Zhari Ismail, Khalid M Abu-Salah, **Salman A Alrokayan** and Amin Malik Shah Abdul Majid. "Antiangiogenic properties of Koetjapic acid, a natural triterpene isolated from *Sandoricum Koetjape Merr*". *Cancer Cell International* 01/2011; 11(1):12. · 1.97 Impact Factor.
76. Kevin Mantey, Somayeh Shams, Munir H. Nayfeh, Mansour Alhoshan and **Salman Alrokayan**. "Synthesis of wirelike silicon nanostructures by dispersion of silicon on insulator using electroless etching". *Journal of Applied Physics - J APPL PHYS.* 01/2010; 108., 2.17 Impact Factor.



77. K.M. Abu-Salah, **S.A. Alrokayan**, M. Naziruddin Khan, Anees A. Ansari. Nanomaterials as an Analytical Tool for Genosensors. *Sensors* 01/2010; 10:963-993. · 1.95 Impact Factor
78. K.M. Abu-Salah, Anees A. Ansari, **S.A. Alrokayan**. "DNA-Based Applications in Nanobiotechnology". *Journal of Biomedicine and Biotechnology* 01/2010; 2010:715295. · 2.44 Impact Factor.
79. A.F.A Aisha, **Alrokayan S.A**, K.M Abu-Salah, Y.Darwis and A.M.S Abdul Majid. "In vitro Cytotoxic and Apoptotic properties of the stem bark Extract of *Sandoricum Koetjape* on Breast Cancer Cells". *International journal of Cancer Research* 2009, 5 (3): 123-129.
80. Shinwari Z , Manogaran PS , **Alrokayan S A** , Al-Hussein KA, Aboussekhra A. "Vincristine and lomustine induce apoptosis and p21(WAF1) up-regulation in medulloblastoma and normal human epithelial and fibroblast cells". *Journal of Neuro-Oncology* 05/2008; 87(2):123-32. · 3.21 Impact Factor
81. Al-Khalaf HH, Lach B, Allam A, Alkhani A, **Alrokayan SA**, Aboussekhra A. "Expression levels of survivin and p16(IN K4a)/Cdk6/pRB proteins and induction of apoptosis in response to radiation and cisplatin in meningioma cells". *Brain Research* 02/2008; 1188:25-34. · 2.73 Impact Factor.
82. **Alrokayan S. A**. "A Methodology for Gene Expression Analysis by RT-PCR Using a Synthetic Internal Standard". *International Journal of Molecular Medicine and Advance Sciences* 4 (3): 74-76, 2008.
83. Al-Khalaf HH, Lach B, Allam A, Alkhani A, **Alrokayan SA**, Aboussekhra A. "The p53/p21 DNA damage-signaling pathway is defective in most meningioma cells". *Journal of Neuro-Oncology* 06/2007; 83(1):9-15. · 3.21 Impact Factor.
84. **Alrokayan S. A. H**. "Role of adenosine deaminase and purine nucleoside phosphorylase in severe combined immunodeficiency disease: A biochemical and molecular study". *Bioscience Biotechnology Research Asia* 4(1). 55-58 (2007).
85. **Salman A. H. Alrokayan**. "Platelet Derived Growth Factor-A mRNA Levels in Diabetic and Nondiabetic Subjects at Risk of Coronary Heart Disease". *American Journal of Biochemistry and Biotechnology* 2007, 3(3): 167-170.
86. S. M. Chaudhry, Z. Naseer, S. Rabbani, **S. A. Alrokayan**. "Activity of adenosine deaminase and its isoenzymes in Serum of pregnant Buffaloes". *Pakistan Vet. J* 2007, 27(3): 152.
87. **Alrokayan S. A. H**. Serum adenosine deaminase activity its isoenzyme in patients treated for tuberculosis. *J. College of Physician and Surgeons Pak.*, No.1 Vol. 13, Jan 2003. 0.34 Impact Factor



88. **Alrokayan S. A. H.** "Purification and characterization of adenosine deaminase from camel skeletal muscle". *The International Journal of Biochemistry & Cell Biology* 01/2003; 34(12): 1608-18. · 4.63 Impact Factor
89. **Alrokayan S. A. H.** "Adenosine deaminase: an aid to diagnose Tuberculosis". *J. Med Sci* 2003, 3: 30-45.
90. Khudairy A. A., **Alrokayan S. A. H.**, Al-Misned F.A. "Cadmium toxicity and cell tress response". *Pak. J. Biol. Sci* 2001, (4) 8:1046-1049.
91. **Alrokayan S. A. H.** "Quantitation of mRNA by Competitive RT-PCR and Silver Staining of Polyacrylamide Gels". *Medical Journal of Islamic Academy of Sciences* 2000, 13:2, 95-98.
92. **Alrokayan S. A. H.** "Effect of Storage Temperature on Quality and Quantity of DNA Extracted from Blood". **Pak. J. Biol. Sci** 2000, (3) 3:392-394.
93. **Alrokayan S. A. H.**, Naseer, Z., Chaudhry S.M. "Nutritional Quality and Digestibility of Sorghum-broiler litter silages". *Animal Feed Sci. Technol* 1998, 75: 65-73..
94. **Alrokayan S. A. H.** "Polymorphism In The Exon 1 of Human HMGCoA Reductase Gene". *The FASEB Journal* 01/1997; 11(9): A1210. · 5.71 Impact Factor
95. Michael A. Billett, Idris S. Adbeish, **Salman A. H Alrokayan**, Andrew J. Bennett, Christine B. Marenah, David A White. "Increased Expression Of Genes For Platelet Derived Growth Factor In Circulating Mononuclear Cells Of Hypercholesterolemic Patients". *Arteriosclerosis Thrombosis and Vascular Biology* 04/1996; 16(3):399-406. · 6.37 Impact Factor
96. **Alrokayan S. A. H.**, Marenah C. B, White D.A, Billett M A. "Quantitation of HMG-CoA reductase mRNA levels in peripheral blood mononuclear cells of normal individuals and patients with altered lipoprotein metabolism". *Biochemical Society Transactions* 12/1993; 21(4):375S. · 3.71 Impact Factor

4- التاريخ الوظيفي:

1- عميد معهد الملك عبدالله لتقنية النانو:

2- 15 / 7 / 1429 هـ - 28 / 10 / 1433 هـ

3- مدير برنامج النانو بجامعة الملك سعود:

4- 15 / 10 / 1428 هـ - 15 / 7 / 1429 هـ .

2- استاذ مشارك - قسم الكيمياء الحيوية - كلية العلوم - جامعة الملك سعود:
6 / 5 / 1424 هـ حتى تاريخه.

3- استاذ مساعد - قسم الكيمياء الحيوية - كلية العلوم - جامعة الملك سعود:
10 / 10 / 1423 هـ - 5 / 5 / 1424 هـ .

4- معار للشركة السعودية للصناعات الدوائية و المستلزمات الطبية (الدوائية):
8 / 10 / 1420 هـ - 9 / 10 / 1423 هـ

3- استاذ مساعد - قسم الكيمياء الحيوية - كلية العلوم - جامعة الملك سعود:
5 / 7 / 1416 هـ - 7 / 10 / 1420 هـ

5- مبتعث للحصول على الماجستير و الدكتوراه -جامعة نتجهام - بريطانيا:
13 / 2 / 1409 هـ - 4 / 7 / 1416 هـ

6- معيد - قسم الكيمياء الحيوية - كلية العلوم - جامعة الملك سعود:
16 / 7 / 1407 هـ - 12 / 2 / 1409 هـ

5- المناصب الإدارية:

1- رئيس قسم البيولوجيا الجزيئية في مركز الابحاث و التطوير التابع للشركة السعودية للصناعات الدوائية و المستلزمات الطبية (الدوائية):
8 / 10 / 1420 هـ - 9 / 10 / 1423 هـ .

6- المنح والجوائز:

1- ابتعاث لدراسات العليا (ماجستير و دكتوراه) من جامعة الملك سعود
13 / 2 / 1409 هـ - 4 / 7 / 1416 هـ .

2- دعم مالي لبحث مقدم لمدينة الملك عبدالعزيز للعلوم و التقنية:



مدته عام ابتداء من 1 / 9 / 1417 هـ بعنوان "استخدام الهندسة الوراثية لدراسة اسباب ارتفاع امراض القلب عند مرضى السكر في المملكة العربية السعودية".

3- دعم مالي لبحث مقدم لمدينة الملك عبدالعزيز للعلوم و التقنية:

مدته ثلاث سنوات إبتداء من 1/1/1421 هـ بعنوان "استخدام الهندسة الوراثية لدراسة أمراض نقص المناعة الوراثية و الناتج عن خلل قي أيض البيورين لدى الاطفال السعوديين".

7- المشاركة في المؤتمرات والندوات :

أ - المؤتمرات:

Presented a paper (as a poster) at 647th meeting of Biochemical Society, University of Sheffield, Sheffield, UK. (1993).

Alrokayan, S.A.H., Marenah, C.B., White, D.A. & Billett, M.A."Quantitation of HMG-CoA reductase mRNA levels in peripheral blood mononuclear cells of normal individuals and patients with altered lipoprotein metabolism" *Biochem. Soc. Trans.* 21, 375S (1993).

Presented a paper (as a poster) at 17th International Congress of Biochemistry and Molecular Biology, Federation of the American society for Experimental Biology (FASEB), San Francisco, California, USA. August 24-29, 1997

Alrokayan S. A. H., Polymorphism In The Exon 1 of Human HMGC_oA Reductase Gene. 17th Int. Congress on Biotechnology and Molecular Biology, San Francisco, USA, August 24-29, 1997, *FASEB; Vol II; 2067*

ب - الندوات:

Attended International Symposium on Laboratory Medicine, Ministry of Defense and Aviation, Medical Services department, Armed Forces Hospital, Riyadh, Kingdom of Saudi Arabia. 2-5 November 1997.

8- أوجه النشاطات الأخرى:

أ - الجمعيات العلمية:

1- عضو الجمعية الكيمياء السعودية

ب - المشاركات العلمية:

- 1- مشرف على رسالة الماجستير للطالب عبدالله الطلحي بعنوان "دراسة بعض أمراض القلب التاجية لدى مرضى السكر باستخدام طرق البيولوجيا الجزيئية" انهى الرسالة عام 1421/1420 هـ.
- 2- مشرف مساعد على رسالة الماجستير للطالب محمد الصيني بعنوان "الطفرات الجينية في امراض الكلى الوراثي: الاسبب الجزيئية لمتلازمة اعراض البرت لدى المرضى السعوديين" انهى الرسالة عام 1423/1422 هـ.
- 3- مشرف على رسالة الماجستير للطالبة هدى الخلف بعنوان المقترح " التعيين الخلوي لسرطان السحايا للمرضى السعوديين " 1424 هـ.
- 4- تحكيم عدة أوراق وبحوث علمية .
- 5- المشاركة في القاء المحاضرات و التدريب العملي في الدورة التدريبية التطبيقية (تقنية البصمة الوراثية) وذلك خلال الفترة 1417 /4/24 هـ الى 1417/5/26 هـ و المنعقدة في المركز العربي للدراسات الامنية و التدريب.
- 6- مستشار غير متفرغ للشركة السعودية للصناعات الدوائية و المستلزمات الطبية (الدوائية) لمدة عام ابتداء من الفصل الثاني 1420 /1419 هـ.