



Curriculum Vitae Prof. Salman Alrokayan

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Professor, Dept. of Biochemistry
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EDUCATIONAL QUALIFICATION:

Ph.D. (Molecular Biology and Genetics)

Nottingham University, United Kingdom (1995). Theses Title: "Molecular Biology of Cholesterol Metabolism In Humans".

M.Sc. (Clinical Biochemistry)

Nottingham University, United Kingdom (1991). Theses Title: "A study of HMGCoA reductase in FH patients".

B.SC. (Biochemistry)

King Saud University Riyadh, Kingdom of Saudi Arabia, (1987).

EXPERIENCE:

Dean of King Abdullah Institute for Nanotechnology (October 2008 – October 2012).

The editorial board of "Journal of Biomaterials and Tissue engineering" as a Regional Editor " American Scientific Publishers" (ASP), USA (2010- to date).

Visiting professor, Leeds University (2008 –to date).

Director of Nanotechnology Program in King Saud University (October 2007 – October 2008).

Professor, Department of Biochemistry, College of Sciences, King Saud University, Riyadh, KSA, (May 2011- to date).

Associate professor, Department of Biochemistry, College of Sciences, King Saud University, Riyadh, KSA, (July 2003-April 2011).

Assistant Professor, Department of Biochemistry, College of Sciences, King Saud University, Riyadh, KSA, (2002-July 2003).

Head of Molecular Biology unit, Saudi Pharmaceutical Industries and Medical Appliances Corporation (SPIMACO), Riyadh, KSA, (1997-2002).

Assistant Professor, Department of Biochemistry, College of Sciences, King Saud University, Riyadh, KSA, (1995-1997).

Research Fellow and Post Graduate student, Nottingham, University, Nottingham, UK (1989-1995).

Supervisor and Co-Supervisor for M.Sc. Students:

Supervised a number of postgraduate students for their research and studies at KSU (1995- to date).

Projects Completed:

Principal Investigator of the project entitled " Self-assembled Nanoparticles as New Smart Contrast Agents for T1 MRI in Breast Cancer Early Detection" Funded by The National Plan For Science And Technology (NPST)

Co-Investigator of the project entitled " Screening of Lipid Hyper- Producers Species in Saudi Arabia Coastal Waters for Biofuel Production from Micro- algae" Funded by The National Plan For Science And Technology (NPST)

Co-Investigator of the project entitled " Multifunctional Nanoparticles for Targeting and Treatment of Cancer" Funded by The National Plan For Science And Technology (NPST)

Principal Investigator of the project entitled " Development and Validation of Molecular Diagnostic Kits using the NANO-and recombination DNA technology for A- Mutation detection / B- Interferon Monitoring". Funded by Center of Excellence in Biotechnology Research (CEBR).

Principal Investigator of the project entitled “ Purification and -Characterization of Camel Adenosine deaminase from Camel Skeletal Muscle”. Funded by Research Center, College of Science, KSU, Riyadh KSA.

Principal Investigator of the project entitled: “The use of the Genetic Engineering to Improve the Mechanisms Underlying the Increased Prevalence of Atherosclerosis in Saudi Diabetic Patients.” Funded by King Abdulaziz City for Science and Technology (KACST)”.

Principal Investigator of the project entitled: “ Inherited Immunodeficiency Disease Caused by Defects in Purine Metabolism in Saudi Population: A Genetic Engineering Study”. Funded by King Abdulaziz City for Science and Technology (KACST)”.

TECHNICAL KNOWLEDGE:

Biotechnology:

Experience in molecular biology techniques such as PCR, RT-PCR, Dot-Blot hybridization (radioactive and non-radioactive), Southern hybridization, Primer/Probe synthesis, Manual and automatic DNA sequencing, DGGE, SSCP, Diagnosis of genetic disorders by PCR, Vector designing and construction. During the period from (1997-2002) the university allowed me to work full time as Head of Molecular Biology unit at Saudi Pharmaceutical Industries and Medical Appliances Corporation (SPIMACO), which is one of the leading Pharmaceutical company in Saudi Arabia. The main task was to transfer the latest technology from one of the leading European company in the field of biotechnology and to apply it locally. Successful manufactured therapeutic protein locally by using the latest technique in the area of biotechnology.

Nanotechnology:

- 1) **Nano-Medicine:** Using some of the Nano-biotechnology methods to develop rapid and accurate diagnostic kits for some genetic diseases.
- 2) **Nano-Pharmaceuticals:** Development of drug delivery systems by using nanoparticles.
- 3) **Self-assembled polymeric nanoparticles,** as new, smart contrast agents for cancer early detection using magnetic resonance imaging Bioengineering.
- 4) **Nanobiosensors.**



PATENTS:

- 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 Ebtesam Mohammed, AIGHAMDI Khalid Mohammad, **ALROKAYAN Salman A H.**: *ORGANOSILICON COMPOUNDS, FATTY ACIDS AND OILS WITH HOMOGENOUS SILICON NANOPARTICLE DISPERSIONS*. Year: 05/2010

BOOKS:

- 1) Anna Speranza, Kerstin Leopold, Mamta Kumari, Vinita Ernest, Amitava Mukherjee, N. Chandrasekaran, Morteza Mahmoudi, Sophie Laurent, W. Shane Journeay, 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;

Book Chapters:

- 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..

PUBLICATIONS:

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. Maqusood 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/nnm.15.72
3. Mohd Javed Akhtar, Hisham A Alhadlaq, Sudhir Kumar, **Salman A Alrokayan**, Maqusood 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, Maqusood 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, Maqusood 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. Maqusood 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, Maqusood 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. Maqusood 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, Maqusood 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 Saghaian, 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, Maqusood 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, Maqusood 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.
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Speaker of the " 1st Diabetes Nanocore International Symposium" Riyadh, Saudi Arabia. 28th Sept 2010.

Attended NANO2 WTEC Workshop " Long Term Impacts and Future Opportunities for Nanotechnology" Singapore 29th- 30th July 2010.

Attended Arab Conference on the effects of the Economic development and Nanotechnology, King Fahd University for Petroleum and Minerals, Dhahran, Saudi Arabia. 27-29th March 2010.

Organizer of The International Conference for Nanotechnology Industries (ICNI), King Saud University, Riyadh, Saudi Arabia. 5-7 April 2009.

Organizer of the Workshop" Nano Research at Universities" , King Saud University, Riyadh, Saudi Arabia. 28- 29th Oct 2007.

Presented a paper at The 28th Annual Lorne Genome Conference The Organization and Expression of the Genome, Lorne, Victoria, Australia. 11 - 15 February 2007.

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 2006.

Presented a paper at The 26th Annual Lorne Genome Conference The Organization and Expression of the Genome, Lorne, Victoria, Australia. February 13th to 17th, 2005.

Presented a paper at The 25th Annual Lorne Genome Conference The Organization and Expression of the Genome, Lorne, Victoria, Australia. 15 - 19 February 2004.

Presented a paper 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.

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.

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

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Awards:

- 1) Scholarship was awarded for MSc leading to PhD by King Saud University, Riyadh, Kingdom of Saudi Arabia 13/02/1409 to 04/07/1416 Hijra.
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Councils:

- 1) Member of Department of Biochemistry Council (28/11/1995- to date).
- 2) Chairman of King Abdullah Institute for Nanotechnology Board (05/11/2007- 1/10/2012).
- 3) Member of International Scientific Advisory Board (05/11/2007- 1/10/2012).
- 4) Member of King Saud University Council (05/11/2007- 1/10/2012).
- 5) Member of Deans Board (05/11/2007- 1/10/2012).

Post Graduate Supervision and Training:

- 1) Visiting consultant, Research and development Centre, Saudi Pharmaceuticals & Medical Appliances Corporation (SPIMACO), Riyadh, Kingdom of Saudi Arabia. For one year (1998).
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- 4) Supervisor for MSc Thesis , Department of Biochemistry, Title " A Study of Some Causes of Coronary Heart Disease in Diabetic Patients by Molecular Biology Methods" (completed in 2000).
- 5) Co-Supervisor for MSc Thesis, Title " Genetic Mutations of Inherited Kidney Disease: Molecular Basis of Alport Syndromes in Saudi Patients" (2002).
- 6) Supervisor for MSc Thesis, Title " Cellular and Molecular Characterization of Meningioma in Saudi Patients" (2003).
- 7) Co-Supervisor for MSc Thesis, Title " The biochemical behavior of silicon nanoparticles in gels in the presence and absence of nucleic acids or proteins" (completed 2010).