

أ.د علي بن عبدالله الشتوي

استاذ تداخل العناصر الغذائية والجينات Nutrigenomics

جامعة الملك سعود

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التعليم

بكالوريوس: جامعة الملك سعود-الرياض- المملكة العربية السعودية

ماجستير : جامعة الملك سعود-الرياض- المملكة العربية السعودية

دكتوراه : توسان-أريزونا- امريكا

Thesis: Regulatory Mechanisms in The Stabilizations of p53 Tumor Suppressor Gene in Zinc Depleted Hepatoblastoma Cells

المجال البحثي

أستاذ تداخل العناصر الغذائية و الجينات في جامعة الملك سعود. حصل على دكتوراه في الفلسفة، في عام ٢٠٠٣م من جامعة أريزونا (أريزونا) في امريكا.

يتركز النشاط البحثي محاور رئيسية :

- دراسة تداخل العناصر الغذائية مع الجينات ودورها في تنظيم التعبير الجيني وإيجاد مؤشرات حيوية ومدى استخدامها للكشف والتنبؤ بحدوث الامراض

- دراسة الأشكال المتعددة لتركيب DNA في سرطان الثدي ومرضى السكري في المجتمع السعودي، والتي قد تساعد على التعرف والتشخيص لسرطان الثدي.

- دراسة تأثير المركبات الطبيعية ودورها في موت الخلايا المبرمج وتأثيرها على الجينات المثبطة للاورام
- تقييم سمية جزيئات النانو(جزيئات النانو تعزل من المنتجات الغذائية والاستهلاكية) ومدى تأثيرها على تركيب الجينوم

خلال السنوات الاربع الاخيرة تم نشر اكثر من ٦٠ بحث في مجلات مصنفة عالميا (ISI)

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الجوائز:

- جائزة سوق عكاظ لتميز والابداع العلمي 1414

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السيرة الذاتية/ أ.د علي عبدالله الشتوي

Ongoing Research Projects المشاريع البحثية

اسم المشروع	الجهة الداعمة
1- Identification, characterization and in vitro evaluation of food surfactant associated-ultrafine carbonaceous particulates on human colon-, immune- and adult mesenchymal stem- cells	الخطه الوطنيه للعلوم والتقنيه- جامعة الملك سعود
2- Characterization of microRNAs specific to breast cancer patients of Saudi Population	
3- <i>In vitro</i> toxicity evaluation of food and agricultural related nanoparticles on human primary and established cells	
4- profile of human gut microbial communities and role in the of chronic diseases (obesity and diabetes, and colon cancer) in Saudi population	المجاميع البحثية الدولية- جامعة الملك سعود

Professional Membership عضوية في الجمعيات العلمية

- عضو في الجمعية الامريكه للكيمياء الحيوية والبيولوجي
- عضو جمعيه الغذاء والتغذيه
- جمعيه الحميات السعوديه
- استشاري مجلس الجمعية الامريكه لهندسة الانسجه

Principal Academic Responsibilities المسؤوليات الاكاديميه الرئيسيه

- تدريس المقررات التاليه
- ٣١٥ غدت كيباء حيويه تغذويه
- ٣٦١ غدت التغذيه خلال مراحل الحياه
- ٥٠٦ غذت الايض التغذوي
- الاشراف على رسائل طلبة ماجستير و دكتوراه
- مناقشة رسائل ماجستير ودكتوراه
- تحكيم ترقيات
- الاشراف الاكاديمي

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الجان

- عضو في اللجنة الدائمة للوقاية من التلوث الكيميائي والبيولوجي حتى الان
- مقرر اللجنة الاعلامية بقسم علوم الاغذية والتغذية ١٤٣٦/١٤٣٥
- عضو في الجنه العلميه بقسم علوم الاغذية والتغذية من ١٤٢٤ الى الان
- مقرر لجنة الاعتماد الاكاديمي بقسم علوم الاغذية والتغذية من ١٤٢٦ الى ١٤٣١
- عضو في لجنة الاعتماد الاكاديمي في الكليه ١٤٢٦ الى ١٤٣١
- عضو في لجنة اختيار المعيدين في الكليه ١٤٣١ - ١٤٣٣
- عضو في لجنة الخطط في قسم علوم الاغذية والتغذية ١٤٢٤ حتى الان
- عضو في لجنة الدراسات العليا

الدورات التدريبية

- دوره في تقنية النانو في مركز النانو في الصين
- تقييم مخرجات التعلم- جامعة الملك سعود
- مهارات التدريس الفعال- جامعة الملك سعود
- موصفات برنامج النظام الاكاديمي - جامعة الملك سعود
- دورة الوقاية من الاشعه - جامعة ميرلاند- امريكا
- دورة في سلامة المعامل - جامعة اريزونا- امريكا
- دورة في مسببات امراض الدم

النشر العلمي

المشاركة في الكتب

1. Alshatwi AA and Shafi G. (2012). Effects of Dietary Nutrients on DNA Methylation and Imprinting, DNA Methylation - From Genomics to Technology, Dr. Tatiana Tatarinova (Ed.), ISBN: 978-953-51-0320-2, InTech, Croatia.
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10. Athinarayanan, Jegan, Vaiyapuri Subbarayan Periasamy, and Ali A. Alshatwi. "Biogenic silica-metal phosphate (metal= Ca, Fe or Zn) nanocomposites: fabrication from rice husk and their biomedical applications. *Journal of Materials Science: Materials in Medicine*, 25(7):1637-44. SpringerLink, DOI: 10.1007/s10856-014-5210-8, 2014.
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Published Abstract ملخصات منشوره

Alshatwi AA, Shafi G, Munshi A , Hasan TN, Lei KY Scientific Validation of Nigella sativa Extracts for Cancer Therapy and Drug Discovery: By Studying Crucial Apoptotic Genes NANO CON, 2009

Stephen H K Wong, Y Q Zhao, **Ali Alshatwi**, Libin Cui, Rita S M Shih, Chung-Ting Han, Norberta W Schoene, and Kai Y Lei Zinc deficiency suppresses p21 transcriptional activity in human hepatoblastoma HepG2 cells, FASEB J. 2006 20:A609

Alshatwi A., Cui L.B., Han Z.T., and Lei K.Y. (2003) Regulatory Mechanisms in The Stabilizations of p53 Tumor Suppressor Gene in Hepatoblastoma Cell .FASEB J, 17(4): A1663

Cui L.B., Wang L.R., Schoene N.W., **Alshatwi A.**, Fanzo J.C., Han Z.T., and Lei K.Y. (2003) Zinc depletion impairs p53 transcriptional activity in HepG2 cells. FASEB J, 17(4): A1663

Cui L.B., **Alshatwi A.**, Fanzo J.C., and Lei K.Y. (2002) Differentially expressed genes in zinc-deficient human bronchialepithelial cells detected by cDNA microarray. FASEB J, 16(4):A266

PRESENTED AT CONFERENCE MEETINGS اللقاء في مؤتمرات

Participated in Microbiology & Infectious Diseases Congress 2014, Sep 29-30, 2014, London, UK.

Participated and presented a scientific paper “Cytotoxic Effects of Engineered Nanoparticles in Human Mesenchymal Stem Cells International Journal of Medical, Health, Pharmaceutical and Biomedical Engineering” at World of Academy of Science, Engendering and Technology ICT 2014, Sep 26-27, 2014, London, UK.

Participated and presented a scientific paper “Industrial carbon powder induced cell death and mitochondrial membrane damage on human mesenchymal stem cells mediated via CYP1A, TNF3, CDKN1A, EGR1 and E2F1 genes” at European Molecular Biology Laboratory, August 20-23, 2014, Germany.

Participated and presented a scientific paper “SiO2 nanoparticles cause metabolic stress” at The Academic-Industrial Interface in 21st Century Drug Discovery - satellite to London Tetrahedron Symposium, June 24-27, 2014, London, UK.

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Participated and presented a scientific paper “In silico docking analysis and ADMET drug scan and in vitro conformation of Aegle marmelos (Bael) chloroform extract against oncoproteins of hepatocellular cancer cell lines” at Microbiome Conference for R&D and Business collaboration in microbiota research, probiotics, health & disease. April 28-29, 2014, London, UK.

Participated in Ninth Annual Biomarkers Conferences, Feb 25-26, 2014, Manchester, UK.

Participated in World Academy of Science, Engineering and Technology conference, July, 08-09, 2013, London, UK.

Participated and presented a scientific paper “Anti-cancer Property of Aegle marmelos Leaves: Finding the Facts Against Hepatocellular Carcinoma HepG2 cell” at Federation of American Societies for Experimental Biology, April 20-24, 2013, Boston, MA, USA.

Participated in the annual conference of British Association for Parenteral Nutrition and Digestive Disorder Federation, June 17-20, 2012, Liverpool, UK.

Participated and presented a scientific paper “Apoptosis inducing ability of fenugreek (Trigonella foenum graecum) methanolic extract and the role of proapoptotic genes” at Federation of American Societies for Experimental Biology, April 21-25, 2012, San Diego, CA, USA.

Participated and presented a scientific paper “Association of p53 and mdm-2 Polymorphisms and Expression pattern with Breast Cancer in Saudi Arabia” at Experimental Biology Meeting, April 9-13, 2011, Washington, DC, USA.

Isolation and Characterization of Breast Cancer Specific MicroRNAs in Breast Cancer Cell Lines and Blood Sample. POSTER @ microRNA in HumanDisease & Development [2009]. USA.

Participated in a National Center for Nanoscience and Technology Conference, Sep 1-3, 2009, China.

Participated and Presented "Zinc deficiency suppresses p21 transcriptional activity in human hepatoblastoma HepG2 cells" at Experimental Biology Meeting, April 1-5, 2006, San Francisco, CA, USA.

Attending, the 4th Saudi Conference on Food & Nutrition, 10-12/12/2006, Riyadh, Saudi Arabia

Attending; Third annual Meeting For the Saudi Society for Food and Nutrition, 10 / 12/ 2006, Riyadh, Saudi Arabia.

Attending, 3rd Training Program, National Commission for Academic Accreditation & Assessment, Quality Improvement on program level, 3-4/12/2006, Riyadh, Saudi Arabia

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السيرة الذاتية/ أ.د علي عبدالله الشتوي

Attending, 3th Global Conference for Dr. Soliman AlHabibe Center, Nutrition and Chronic Diseases, 12-14/4/2005, Riyadh, Saudi Arabia

Attending and Presented, Meal Planning for Renal Patients, Meal planning Meeting, 20-21/12/2005, King Fahad Hospital, Damam, Saudi Arabia.

Attending; Second annual Meeting For the Saudi Society for Food and Nutrition, 27/12/2005, Medical college, King Saud University, Riyadh, Saudi Arabia.

Attending; First annual Meeting For the Saudi Society for Food and Nutrition , 22 / 12/ 2004, Medical college, King Saud University, Riyadh, Saudi Arabia.

Participated and Presented " Regulatory Mechanisms in The Stabilizations of p53 Tumor Suppressor Gene in Hepatoblastoma Cell "at Experimental Biology Meeting, 11-15/4/2003, San Diego, California, USA.

Participated " Zinc depletion impairs p53 transcriptional activity in HepG2 cells " at Experimental Biology Meeting, at Experimental Biology Meeting, 11-15/4/2003, San Diego, California, USA

Participated and Presented " Differentially expressed genes in zinc-deficient human bronchialepithelial cells detected by cDNA microarray " at Experimental Biology Meeting, 20-24/ 4/2002, New Orleans, Louisiana, USA

Attended and Presented " Differentially expressed genes in zinc-deficient human bronchialepithelial cells detected by cDNA microarray " at Experimental Biology Meeting, 20-24/ 4/2002, New Orleans, Louisiana, USA Page 27 The Long-Term Comprehensive National Plan for Science, Technology and Innovation

Presented and Participated " Zinc depletion reduced Egr-1 and HNF-3beta expression and apolipoprotein A-I promoter activity in Hep G2 cells " Experimental Biology 2001, Orlando, Florida March 31 - April 4, 2001

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