موهد شـاهـناواز خـــان (دكتوراه كيمياء حيوية)

كرسي أبحاث البروتين، قسم الكيمياء الحيوية

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الخبرة البحثية

مايزيد عن عشر سنوات من الخبرة في المعامل البحثية العلمية لدراسات اختلال تركيب البروتينات، وتراكمها ودراسة الأميلويد المرتبطة بأمراض التلف العصبي. التحويرات ما بعد الترجمة للبروتينات مثل تجميع البروتين المحفز بواسطة عملية التسكر، والأكسدة والتغيرات التركيبية المطابقة الأخرى أثناء العملية السابقة تم استكشافها خلال مسيرتي الأكاديمية. تمييز المنتجات النهائية لعملية التسكر المتقدمة ودراسات تثبيطها كانت جزءًا روتينيًا من خبرتي البحثية. في الآونة الأخيرة، قمنا باستكشاف مسار إشارات عملية التسكر المتقدمة في النماذج الخلوية وعلاقتها المشتركة مع الأمراض الأخرى. تطور مرض السرطان الناجم عن مرض السكري أصبح أيضًا من اهتماماتنا المهنية. تمت دراسة الدراسات المعمقة لمختلف الروابط بالبروتينات وديناميكيتها الحرارية على نطاق واسع باستخدام التحليل الطيفي، وزراعة الخلية، والإشارات، والالتحام الجزيئي والمحاكاة، وتقنيات أجهزة CD، ITC، DLS، TEM.

الخبرة العملية والتعليمية

أستاذ مشارك

قسم الكيمياء الحيوية، كلية العلوم، جامعة الملك سعود، المملكة العربية السعودية — ديسمبر/ 2018 – حتى الان

أستاذ مساعد

قسم الكيمياء الحيوية، كلية العلوم، جامعة الملك سعود، المملكة العربية السعودية — نوفمبر/ 2011 – ديسمبر/ 20218

زمالـة مابعـد الدكتوراه

كلية طب الاسنان، نيوجيرسي، الولايات المتحدة الامريكية — سبتمبر/ 2011 – ديسمبر/ 2010

مجال البحث: اظهار التعبيرات والتنقية لبروتينات الجابيرون والبروتينات الهاضمة ودراسة ترابطها.

رسالة الدكتوراه

عنوان: تنقية وخصائص بروتين السايستين من رئة الثدييات — 2005 - 2010

قسم الكيمياء الحيوية، كلية علوم الحياة، جامعة اليجار الإسلامية، الهند

مجال البحث: تنقية ودراسة فيزياء حيوية لمثبطات البروتينات الهاضمة الكبريتية.

المنح البحثية

- المشروع الممول من الخطة الوطنية للعلوم والتكنولوجيا (NPST) بعنوان "البروتينات الهاضمة والمرافقون في مراقبة جودة أمراض اختلال البروتين. (الدور- باحث رئيسي، الميزانية- 1.82 مليون ريال) **مكتمل**.
- المشروع الممول من الخطة الوطنية للعلوم والتكنولوجيا (NPST) بعنوان "تطوير جهاز استشعار حيوي لطي البروتين لدراسة أمراض اختلال البروتين. (الدور- باحث رئيسي، الميزانية- 1.82 مليون) **الحالة- مستمرة**.
- عمادة البحث العلمي، مشروع فيزياء البروتين الحيوية (الميزانية 150,000 ريال سعودي).
- وكالة البحث والابتكار، وزارة التعليم في المملكة العربية السعودية.

التدريس للعناوين لأكاديمية / المواضيع

1. منهجـــيات الكيمياء الحيوية
2. موضوعات مختارة في الكيمياء الحيوية
3. الكيمياء الحيوية للدم
4. الفيزياء الحيوية للبروتين / هندسة البروتينات

موضوع الدراسة / ماجستير

1. التكنولوجيا الحيوية
2. الأحياء الجزيئية
3. علم المناعة
4. علم الأحياء الدقيقة
5. التغذية والكيمياء الحيوية السريرية
6. الإحصاء الحيوي وعلوم الحاسب

الأنشطة والتكريمات

1) اختبار الأهلية الوطنية (CSIR-NET) لدرجة الأستاذ المساعد والذي عقد في ديسمبر 2004.

2) الإشراف على طلاب مقرر كيح-497 (جامعة الملك سعود، الرياض، المملكة العربية السعودية) لمشاريعهم البحثية الجامعية.

3) مشرف مشارك على مشروع الماجستير (جامعة الملك سعود، الرياض، المملكة العربية السعودية) للبحث بعنوان "الثبات غير المستكشف لبيرأوكسيد تمر النخيل (Phoenix Dactylifera) بالمقارنة مع بيرأوكسيديز الفجل الحار (HRP).

4) مشرف (باحث رئيسي) لمشروع ماجستير بعنوان "التأثير المقارن لجزيئات الذهب والفضة النانوية على الخلايا السرطانية: استهداف سرطان الثدي والقولون".

5) مشرف مشارك على مشروع الماجستير (جامعة الملك سعود، الرياض، المملكة العربية السعودية) بعنوان "تسكر أنزيم الكاتلاز وتثبيطه".

6) مشرف (باحث رئيسي) لمشروع دكتوراه بعنوان "تسكر وتجميع الأنسولين وسميته الخلوية".

8) مشرف مشارك على مشروع دكتوراه بعنوان: الاستنساخ والتعبير عن أنزيم الأسباراجيناز وتوصيفها البيوفيزيائي.

مراجع للمجلات المستشهد بها

- المجلة الدولية للجزيئات البيولوجية
- ندوة في بيولوجيا السرطان
- مجلة السوائل الجزيئية
- الكيمياء الحيوية وفيزيولوجيا المبيدات
- المجلة السعودية للكيمياء البيولوجية
- جهاز الطيف الضوئي اكتا الجزء ب- التحليل الطيفي الجزيئي الحيوي

كتب وفصول

- مثبطات الأنزيمات الكبريتية الهاضمة من رئة الثدييات (ISBN: 9783847374565).
- الزهايمر - مرض دماغي تدريجي: الأسباب والأعراض والوقاية (علم الأحياء، التشخيص والعلاج المتقدم في مرض الزهايمر) (ISBN 978-981-13-9635-9).
- المواد النانوية كفاءة جديدة كعوامل مضادة للعدوى التي تضعف استشعار البكتيريا.
- التقنيات التحليلية في التكنولوجيا الحيوية الطبية (DOI: 10.1007/978-3-030-98554-7_5).

الأبحـاث المنشــورة

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4. Manal M. Alkhulaifi, Malak M. Alosaimi, Majed S. Alokail, Mohammed A. Hassan**,** Muawiya, Awadalla, Fohad Mabood Husain, **Mohd Shahnawaz Khan. 2023.** Assessment of Broad-Spectrum Antimicrobial, Antibiofilm, and Anticancer Potential of Lactoferrin Extracted from Camel Milk. Applied Biochemistry and Biotechnology, 2023**.**
5. Nouf O. AlAfaleq, Tasneem M. Hussein, Samia T. Al-Shouli b, Nojood Altwaijry, **Mohd Shahnawaz Khan.** Proinflammatory cytokine profiles in prediabetic Saudi patients. Saudi Journal of Biological Sciences, 2023. (IF: 4.4).
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