

تعبئة الإهتمامات البحثية (نموذج رقم 1)

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| Assistant Professor | المسمى الوظيفي Job title | Gouse Mohiddin Shaik | Name / الاسم |
| 9/14/2021 | تاريخ تقديم النموذج Submission date | gshaik@ksu.edu.sa | البريد الإلكتروني Email |
| نعم Yes | | | هل لديك الرغبة في الاشراف على الماجستير Do you wish to supervise MSc |
| نعم Yes | | | هل لديك الرغبة في الاشراف على الدكتوراه Do you wish to supervise PhD |
| <p>Mast cells as part of innate and adaptive immunity play central role in inflammation by releasing preformed and de novo synthesized inflammatory mediators. Mast cells play pivotal role in modulation of immune system especially during allergic response. Aggregation of high affinity IgE (FcεRI) receptors results in initiation of complex signaling cascade leading to activation of mast cells. Regulating the mast cells activation and subsequent release of inflammatory mediators is a preferred therapeutic choice to address inflammatory conditions. Compounds with the potential to inhibit mast cell activation are known as mast cell stabilizers. Many mast cell stabilizers are in practice and ever increasing need for new stabilizers especially of natural source owing to very little or no side effects. But most if not all mast cell stabilizer's function is yet to be elucidated at molecular level.</p> <p>Our work mainly focusses on screening of selected natural compounds in pure form for their mast cell stabilizing effect. Once stabilizing effect is established, our lab addresses the effected signaling pathways there by understanding molecular targets of the compound in question. We regularly employ cell culture methods, mast cell activation and functional assays and immunological assays.</p> | | | Research interests (~200 words) |
| <p>1. Molecular mechanism of anti-inflammatory effect of stigmaterol 2. Screening the role of alpha-glycyrrhetic acid as potential anti-inflammatory agent</p> | | | المواضيع المقترحة للمشاريع البحثية للطلبة الدراسات العليا (الماجستير) Proposed topics for master research projects |
| - | | | المواضيع المقترحة للمشاريع البحثية للطلبة الدراسات العليا (الدكتوراه) Proposed topics for doctoral research |

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| | projects |
| yes | الابحاث المنشورة مع طلبية الدراسات العليا Publishing with post graduate students |
| تقنيات ضمن خطة البحث, مواد و تجهيزات, عينات samples Techniques within the research plan | توفر مستلزمات المشروع Availability of project supplies |
| 2 | العدد المقترح للاشراف على طلبية الماجستير وحسب اللائحة According to the regulations, proposed number of supervised MSc students |
| 0 | العدد المقترح للاشراف على طلبية الدكتوراه وحسب اللائحة According to the regulations, proposed number of supervised PhD students |
| I confirm that the information given in this form is true, complete and accurate. | إقرار Endorsement |