

تعبئة الإهتمامات البحثية (نموذج رقم 1)

Associate Professor	المسمى الوظيفي Job title	Mohammad Shamsul Ola	Name / الاسم
12/9/2021	تاريخ تقديم النموذج Submission date	mola@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>Cellular and molecular mechanism of diabetic retinopathy: Diabetic retinopathy is a severe complication of diabetes and is the leading cause of blindness among working adults worldwide. Despite extensive laboratory and clinical investigations, the fundamental cause of diabetes-related vision loss and blindness remains uncertain. The growing incidence of diabetes requires new approaches to understanding the pathophysiology of the disease to improve the detection, prevention and treatment of retinopathy at its earliest stages. We will have a unique opportunity to investigate the molecular and cellular mechanisms of the neurological damage in the diabetic retina and to apply that knowledge to clinical practice. Our research interest is intended to identify potential metabolite(s)/neurotrophic factor(s) and the molecular mechanism of early neuronal cell death in the diabetic retina.</p>			Research interests (~200 words)
Metabolic stress in diabetic retinopathy			المواضيع المقترحة للمشاريع البحثية للطلبة الدراسات العليا (الماجستير) Proposed topics for master research projects
Influence of the diabetes induced metabolic stress on the regulation of neurotrophic factors and oxidative stress in the cultured retinal cells and diabetic rat retina.			المواضيع المقترحة للمشاريع البحثية للطلبة الدراسات العليا (الدكتوراه) Proposed topics for doctoral research projects
Yes			الابحاث المنشورة مع طلبة الدراسات العليا Publishing with post graduate students

<p>تقنيات ضمن خطة البحث Techniques within the research plan, Limited resources</p>	<p>توفر مستلزمات المشروع Availability of project supplies</p>
<p>1</p>	<p>العدد المقترح للإشراف على طلبة الماجستير وحسب اللائحة According to the regulations, proposed number of supervised MSc students</p>
<p>1</p>	<p>العدد المقترح للإشراف على طلبة الدكتوراه وحسب اللائحة According to the regulations, proposed number of supervised PhD students</p>
<p>I confirm that the information given in this form is true, complete and accurate.</p>	<p>إقرار Endorsement</p>