

<b>Proposal Acronym</b>	AOHC
<b>Proposal Title:</b>	Synthesis and characterization of some chalcone based heterocyclic compounds and their biological screening as potential in-vitro antioxidant agent
<b>Surname:</b>	brahmbhatt
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<b>Research area:</b>	Chemistry CHE
<b>Sub-discipline of research area:</b>	medicinal chemistry
<b>Category of research:</b>	developmental
<b>Keywords:</b>	antioxidant, heterocyclic compound, QSAR study
<b>Abstract:</b>	<p>This research proposal describes the development of new antioxidant and antimicrobial drug molecules. They will be chalcone based heterocyclic compounds. We proposed to synthesize pyrazole clubbed compound in three different schemes I, II and III. They will be further screened for the antioxidant potency. It will be carried by DPPH method, Iron chelating method, Reducing power method and Phosphomolibdenum method. With this, they will be screened for possible antimicrobial activity. We also want to perform Statistical Evaluation of Molecules- QSAR, involves the generation of mathematical models that link the physicochemical and structural properties of a series of synthesized molecules with their tested biological effects. Our work in this field can lead to discovery of new microbial agent, which can be boon for the scientific community, pharma &amp; health care sector, and human society as a whole.</p>
<b>Does this proposal possess any of the sensitive ethical issues detailed in ethical issues table?:</b>	No