

2022 Joint Usage and Research Report

Title of Research Project		Innate immune responses of selected local Nigerian herbs that have anticancer activity on macrophages and their effects on prostate and breast cancer cells in vitro and in vivo.		
Applicant	Institution	University of Abuja	Under40 put a <input type="radio"/>	Under35 put a <input type="radio"/>
	Job title and Name	Associate Professor, Salamatu Machunga-Mambula		
Research collaborators (Please add lines as appropriate)	Institution	University of Abuja		
	Job title and Name	Professor of Biochemistry, Bukola Akin-Osanaiye		
	Institution	University of Abuja		
	Job title and Name	Senior Lecturer, Dr. Chukwudi Ugoh		
	Institution	National Institute of Pharmaceutical Research and Development		
	Job title and Name	Associate Professor Oladosu Peters		
Host researcher at IGM		Professor Akinori Takaoka		
Purpose of the Research Project (approx. 250 words)		<ol style="list-style-type: none"> 1. To determine the effects of local herbs on the TNF signaling pathway in vitro. 2. To determine the effects of local herbs in vitro on prostate cancer and breast cancer cell lines. 3. To determine in vivo effects of local herbs on innate immune response and cancer reduction in tumorigenic mouse models. 		

<p>Development of the Research Project and Results (approx.. 850 words)</p> <p>*Enter the number of web meetings.</p>	<p>We have successfully extracted the five local Nigerian herbs (see images below) using both aqueous and ethanolic extraction procedures and the next steps for the research is for the extracts to be sent to Hokaido University under the supervision of Prof Aki Takaoka for the immunological assays and the oncogenic experiments using the herbs as described in our methodology.</p> <div data-bbox="440 600 1457 1189">  <p><i>E. hirta Extracts</i></p> </div> <div data-bbox="440 1256 1457 2018">  <p><i>S. bicolor Extract</i></p> </div>





A. muricata Extract

Publication	【Conference, symposium, workshop etc.】
*Enter the information of conference or journal (vol. page. Year.) where the above work was presented.	Not Applicable
	【Journals】
	Not Applicable