Review Form 3

Journal Name:	**South Asian Research Journal of Natural Products**
Manuscript Number:	**Ms_SARJNP_130661**
Title of the Manuscript:	**EFFECTS OF THE ADMINISTRATION OF VARIOUS FORMULATIONS OF COCOYAM-BAMBARA GROUNDNUT-SOYA BEAN FLOUR BLENDS ON THE SERUM LIPIDS & INFLAMMATORY BIOMARKERS OF STREPTOZOTOCIN-INDUCED DIABETIC RATS.**
Type of the Article	**Original Research Article**

PART 1: Comments

		Author's Feedback *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)*
Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.	The study throws light on the fact that dyslipidemic conditions is a critical parameter in T2DM subjects. Lipid abnormalities in diabetes mellitus disrupt key enzyme pathways in lipid metabolism and the study focused on this vital issue.The study also highlights the advantages of isoflavones in modulation of lipid profile which is well mentioned. Similarly alleochemical, Stilbenes are effectively demonstrated against metabolic inflammation.	
Is the title of the article suitable? (If not please suggest an alternative title)	**Yes title is suitably put**	
Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.	**Yes**	
Is the manuscript scientifically, correct? Please write here.	Yes	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	Suggested few to strengthen the findings	

Review Form 3

Is the language/English quality of the article suitable for scholarly communications?	Good	
Optional/General comments	**Study is well planned, suitable to the journal and needs encouragement** **Few suggestions to help authors to strengthen the findings. Authors please refer following and may add references** 1. Lipid abnormalities in diabetes mellitus because insulin resistance disrupt key enzyme pathways in lipid metabolism (Taskinen,2002).Wolfram et al., (20004) reported that hyperinsulinemia induces nuclear exclusion and inhibition of Foxa2, a regulator of fatty acid oxidation leading to lipid accumulation in the liver, hepatic insulin resistance, and ultimately T2DM. 1. Benefits of isoflavones in modulation of lipid profile is well established. Clinical studies have shown that isoflavone positively decreases the CVD and diabetes risk by affecting glucose transporter 4 (GLUT4) and adenosine monophosphate-activated protein kinase (AMPK) phosphorylation (Barańska et al., 2021;Ozder,2014; Wolfrum et al., 2004). Present study is in line with the previous studies. 2. Stilbenes are wonderul chemicals to be exploited. Taskinen MR. Diabetic dyslipidemia. Atheroscler Suppl. 2002;3(1):47–51. doi: 10.1016/S1567-5688(01)00006-X. Wolfrum C, Asilmaz E, Luca E, Friedman JM, Stoffel M. Foxa2 regulates lipid metabolism and ketogenesis in the liver during fasting and in diabetes. Nature 432: 1027–1032, 2004. Barańska A, Błaszczuk A, Polz-Dacewicz M, Kanadys W, Malm M, Janiszewska M, Jędrych M. Effects of Soy Isoflavones on Glycemic Control and Lipid Profile in Patients with Type 2 Diabetes: A Systematic Review and Meta-Analysis of Randomized Controlled Trials. Nutrients. 2021 May 31;13(6):1886. doi: 10.3390/nu13061886. PMID: 34072748; PMCID: PMC8229139. Ozder A. Lipid profile abnormalities seen in T2DM patients in primary healthcare in Turkey: a cross-sectional study. Lipids Health Dis. 2014 Dec 6;13:183. doi: 10.1186/1476-511X-13-183. PMID: 25481115; PMCID: PMC4271485. Zuo, X. et al. (2023) Soy Consumption and the Risk of Type 2 Diabetes and Cardiovascular Diseases: A Systematic Review and Meta-Analysis. Nutrients. 2023; 15(6):1358. https://doi.org/10.3390/nu15061358, https://www.mdpi.com/2072-6643/15/6/1358 Al-Khayri JM, Mascarenhas R, Harish HM, Gowda Y, Lakshmaiah VV, Nagella P, Al-Mssallem MQ, Alessa FM, Almaghasla MI, Rezk AA. Stilbenes, a Versatile Class of Natural Metabolites for Inflammation-An Overview. Molecules. 2023 Apr 28;28(9):3786. doi: 10.3390/molecules28093786. PMID: 37175197; PMCID: PMC10180133.	

PART 2:

	Reviewer's comment	**Author's comment** *(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)*
Are there ethical issues in this manuscript?	*(If yes, Kindly please write down the ethical issues here in details)*	

Reviewer Details:

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