Response to Reviewer #1

No.	Query	Response
1	I believe the manuscript is well	The English language of the manuscript
	written. It would benefit from	has been polished.
	minor language polishing.	

Response to Reviewer #2

No.	Query	Response
1	The title of the paper is not accurately expressed, and I think it needs to be rewritten.	The title has been rewritten. (Page 1) "Roles of PI3K Signaling Pathway in Inflammation-Related Cancer: Impact of rs10889677 Variant and Buparlisib in Colitis-Associated Cancer"
2	The following reference may increase the reader's comprehension: Sheikholeslami A, Fazaeli H, Kalhor N, Khoshandam M, Eshagh Hoseini SJ, Sheykhhasan M. Use of Mesenchymal Stem Cells in Crohn's Disease and Perianal Fistulas: A Narrative Review. Curr Stem Cell Res Ther. 2023;18(1):76-92. doi: 10.2174/1574888X16666210916145 717. PMID: 34530720.	Thank you for the suggestion. This information will be relevant for my future studies.
3	It is better to include the results of the inflammation gene expression analysis, including IL-6 and IL-8.	This study is a continuation from the previous study conducted by our group that has identified SGK2 as one of the prominent genes in long-duration UC patients that have higher risk of developing CAC. (Low, E.N.D.; Mokhtar, N.M.; Wong, Z.; Raja Ali, R.A. Colonic mucosal transcriptomic changes in patients with long-duration ulcerative colitis revealed colitis-associated cancer pathways. J. Crohns Colitis 2017, 13, 755–763.) Thus, in this study, we attempted to keep the focus on the non-AKT downstream of PI3K signalling

		pathway. Nevertheless, it was an excellent suggestion to include the results of the expression of inflammation related
		genes, which can be applied in the future study.
4	In order to make the paper more interesting to read, I suggested that the authors could add one graphical abstract to the manuscript.	The graphical abstract has been
5		The study limitations have been included in the discussion part (Page 17).

Response to Reviewer #3

No.	Query	Response
1	Buparlisib has shown	It is undeniable that PI3K has been
	encouraging results in in vivo	linked to many others inflammation-
	studies, and the conclusions	related cancer. In fact, PI3K inhibitor,
	reached in this study are no	buparlisib also has been tested in
	different from previous studies.	multiple cancers cases. However, to
	Not much new overall. The	date, the application of buparlisib in
	mechanism of the down-	colitis-associated cancer has not been
	regulation of PDK1 and SGK2 by	tested, specifically in the CAC-induced
	Buparlisib needs further study.	animal model.
		Furthermore, the present study did not
		cover an investigation into the specific
		mechanism underlying the down-
		regulation of PDK1 and SGK2 by
		Buparlisib. This is an excellent
		suggestion for the future continuation
		of this study.