Nama Jurnal : Medicinal Plants-International Journal of Phytomedicines and Related Industries (IJPRI)

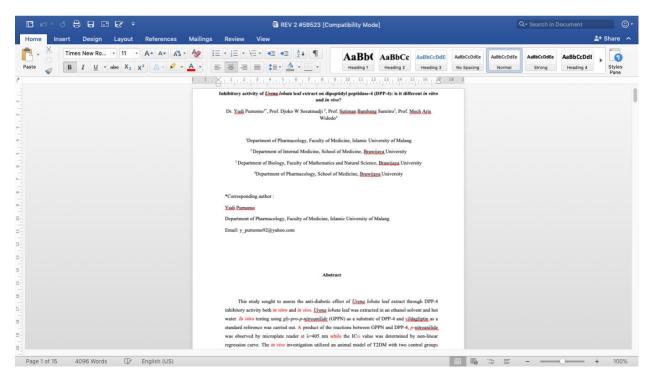
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Judul Artikel : Inhibitory activity of *Urena lobata* leaf extract on dipeptidyl peptidase-4 (DPP-4): is it different *in vitro* and *in vivo* ?

Tanggal	Activity	Reviewer Comments
11-07-2017	Submision of	
	article	
11-07-2017	Article received	Article has been received
22-07-2017	Editor responses	Request about four referee`s name
03-08-2017	Resubmit the	
	revised article	
17-01-2018	Editor responses	Comments from reviewer and editor were attached
03-02-2018	Resubmit the	
	article file	
30-01-2018	Editor responses	English editing
22-02-2018	Resubmit the	
	revised article	
03-03-2019	Editor responses	Abstract revision
18-03-2019	Resubmit the	-
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17-05-2019	Galley proof	Galley proof correction
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18-05-2019	Resubmit the	-
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25-05-2019	Published	On line published

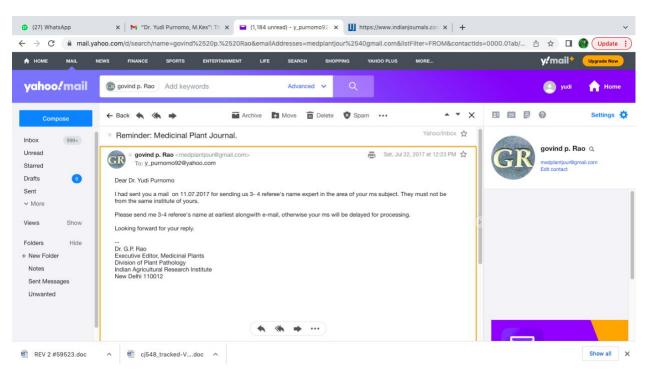
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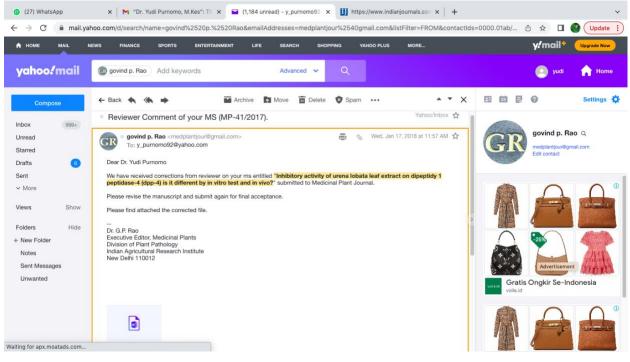
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ad ed	 govind p. Rao <medplantjour@gmail.com To: y_purnomo92@yahoo.com</medplantjour@gmail.com Dear Dr. Y. Purnomo Your ms entitled 'Inhibitory activity of Urena lob no. Is MP-41/2017 for future correspondence. We will inform you the decision of the ms at earlier To: G.P. Rao Executive Editor, Medicinal Plants Division of Plant Pathology Indian Agricultural Research Institute New Delhi 110012 	pata leaf extract on Dipeptidy	l Peptidase-4 (DPP-4): is	it different by <i>in vitr</i> o test and <i>ir</i>	📑 Tue, Jul 11, 2017 at 11:54 AM 🏠
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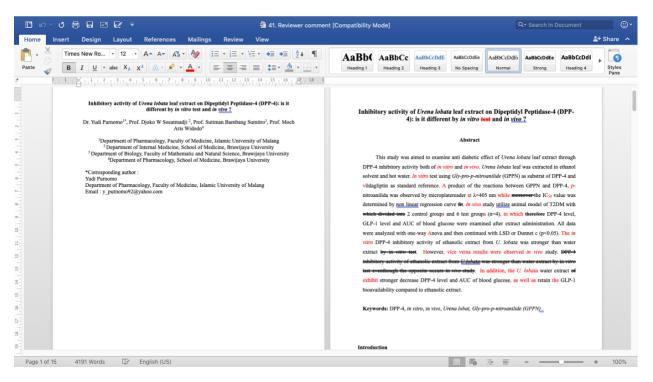
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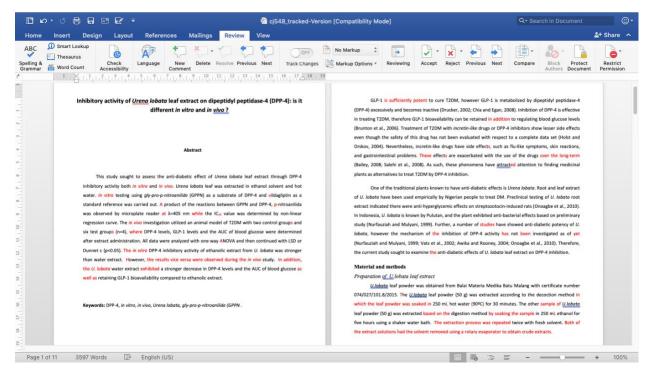
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			Abstract								
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			betic effect of Urena lobata l		1		Formatted	Lansnel, Edget of			
	inhibitory activity b	both in vitro and in vivo. Un	ena lobata leaf was extracted i	in ethanol solvent and	hot	THE REAL PROPERTY AND	Deleted: of				
	water, In vitro test	ting using gly-pro-p-nitroanil	ide (GPPN) as a substrate of D	OPP-4 and vildagliptin	as a	Ron Zahoruk	Formatted	+			
	standard reference	was carried out. A product	of the reactions between GPP	N and DPP-4, p-nitroar	ilida 🔪	Ron Zahoruk	Deleted: Gly				
	was observed by r	microplate reader at $\bar{\lambda}$ =405	nm while the IC50 value was	determined by non-li	near	Ron Zahoruk	Formatted	+			
	regression curve. T	he in vivo investigation utilize	ed an animal model of T2DM w	ith two control groups	and	Ron Zahoruk	Deleted: nonon-linea	r regression curve			
	six test groups (n=	4), where DPP-4 levels, GLP-	1 levels and the AUC of blood	glucose were determ	ined	Ron Zahoruk	Formatted	4			
	after extract admin	istration. All data were analy	zed with one-way ANOVA and I	then continued with LS	Dor	Ron Zahoruk	Deleted: Anova NOVA	and then			
	Dunnet c (p<0.05).	The in vitro DPP-4 inhibitory	activity of ethanolic extract fr	om <i>U. lobata</i> was stro	neer						
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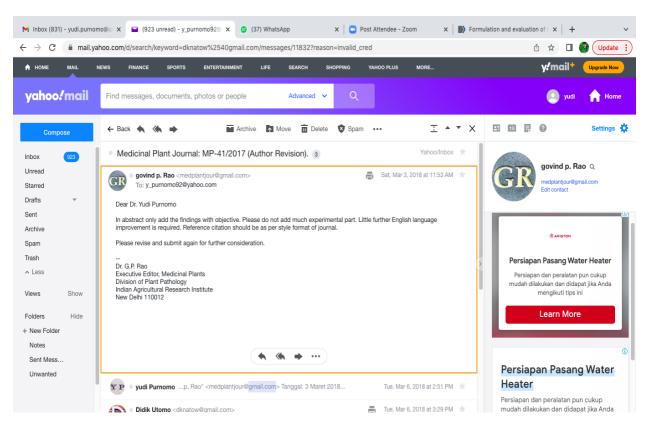
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Reviewer comments (English Editing) :

English edited of manuscript:



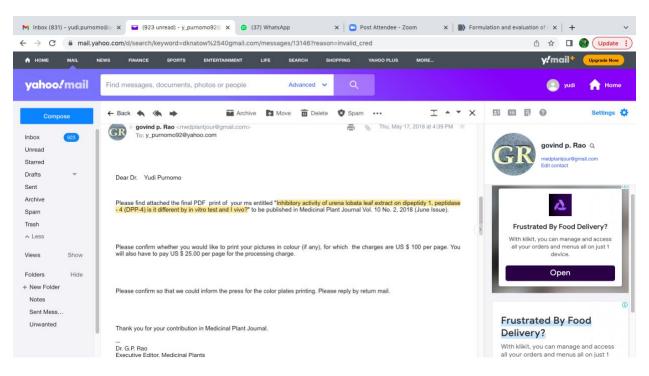
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Abstract revised :

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Editor comments :



Galley proof correction :



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Medicinal Plants Internet of Pla	s Medicinal Plants - International Journal of Phytomedicines and Related Industries Year : 2018, Volume : 10, Issue : 2 First page : (99) Last page : (105) Print ISSN : 0975-4261. Online ISSN : 0975-6892. Article DOI : <u>10.5958/0975-6892.2018.00016.3</u>							
egistration	Inhibitory activity of Urena lobata leaf extract on dipeptidyl peptidase-4 (DPP-4): Is it dif	ferent	in vitro					
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ims & Scope uthor Guidelines thics &	Purnomo Yudi ¹ Soeatmadji DjokoW ² , Sumitro Sutiman Bambang ³ , Widodo Moch Aris ⁴ ¹ Department of Pharmacology, Faculty of Medicine, Islamic University of Malang, Jalan MT Haryono No. 193, Malang, 65144, East Java, Indonesia							
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Alerts	⁴ Department of Pharmacology, Faculty of Medicine, Brawijaya University, Jalan Veteran, Malang, 65145, East Java, Indonesia							
Article Submission	*Corresponding author e-mail: <u>y_purnomo92@yahoo.com</u>							
	Online published on 25 May, 2018.							
FREE Sample Issue	Abstract							
Trial Access	This study was aimed to compare the anti diabetic effect of <i>Urena lobata</i> leaf extract through DPP-4 inhibitory activity by <i>in vitro</i> and <i>in vivo</i> . <i>Urena lobata</i> leaf extract through DPP-4 inhibitory activity by <i>in vitro</i> and <i>in vivo</i> . <i>Urena lobata</i> leaf extnant through DPP-4 inhibitory activity by <i>in vitro</i> and <i>in vivo</i> . <i>Urena lobata</i> leaf extnant through on the strain of <i>Girporo-p-nitroanilide</i> (GPPN) as substrate of DPP-4 and them was observed by microplate reader at A=405 nm furthermore the IC ₆₀ value was determined. <i>In vivo</i> study utilize an animal model of diabetes with 2 co groups (n=4), in which DPP-4 level, GLP-1 level and AUC of blood glucose were examined after extract administration. The <i>in vitro</i> DPP-4 inhibitory activity of <i>lobata</i> is higher than water extract with the IC ₅₀ value of 1654, 64 and 6489, 88 µg/ml respectively. However, the water extract of <i>U. lobata</i> exhibits stronger (60–70%), compared to ethanolic extract (40–60%) <i>in vivo</i> study as well as the AUC of blood glucose were reduced by 50–60%, and 20–50%, respectively. Me could be retained more by the water extract of <i>U. lobata</i> administration (3–7 fold) compared to ethanolic extract (25 fold) due to the reducing of DPP-4 activity of the retained more by the water extract of <i>U. lobata</i> administration (3–7 fold) compared to ethanolic extract (25 fold) due to the reducing of DPP-4 activity of the retained more by the water extract of <i>U. lobata</i> administration (3–7 fold) compared to ethanolic extract (25 fold) due to the reducing of DPP-4 activity of the retained more by the water extract of <i>U. lobata</i> administration (3–7 fold) compared to ethanolic extract (25 fold) due to the reducing of DPP-4 activity of the retained more by the water extract of <i>U. lobata</i> administration (3–7 fold) compared to ethanolic extract (25 fold) due to the reducing of DPP-4 activity of the retained more by the water extract of <i>U. lobata</i> administration (3–7 fold) compared to ethanolic extract (25 fold) due to the reducing of DPP-4 activ	the reaction ntrol groups of ethanolic decrease DF eanwhile, G	ns product of and 6 test extract of <i>U</i> PP-4 level					
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