



1 Article

2 **Efficient production of industrially attractive**
3 **metabolites from *in vitro* cultures of *Isodon rugosus***
4 **(Wall. ex Benth.) Codd**

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22 **Supplementary Materials:**

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24 **Table S1:** Culture conditions and explant origin of the 12 *I. rugosus* callus used for the determination
25 of main phytochemicals, antioxidant and anti-aging activities

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27 **Table S2:** Pearson coefficient correlation linking the main phytochemicals accumulated in *I. rugosus*
28 callus extracts

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30 **Figure S1:** Comparison of DPPH antioxidant activity of extracts at different PGRs from stem-derived
31 callus culture (A) or leaf-derived callus culture (B).

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33 **Table S1.**

34 Culture conditions and explant origin of the 12 *I. rugosus* callus used for the determination of main
35 phytochemicals, antioxidant and anti-aging activities.
36

Sample	PGRs (mg/l)	Initial explant
Ir#1	TDZ (1.0)	Stem
Ir#2	TDZ (1.0)	Leaf
Ir#3	TDZ (2.0)	Stem
Ir#4	TDZ (2.0)	Leaf
Ir#5	TDZ (3.0)	Stem
Ir#6	TDZ (3.0)	Leaf
Ir#7	TDZ (1.0) + NAA (1.0)	Stem
Ir#8	TDZ (1.0) + NAA (1.0)	Leaf
Ir#9	TDZ (1.0) + NAA (2.0)	Stem
Ir#10	TDZ (1.0) + NAA (2.0)	Leaf
Ir#11	TDZ (1.0) + NAA (3.0)	Stem
Ir#12	TDZ (1.0) + NAA (3.0)	Leaf

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39 **Table S2.**

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Pearson coefficient correlation linking the main phytochemicals accumulated in *I. rugosus* callus extracts.

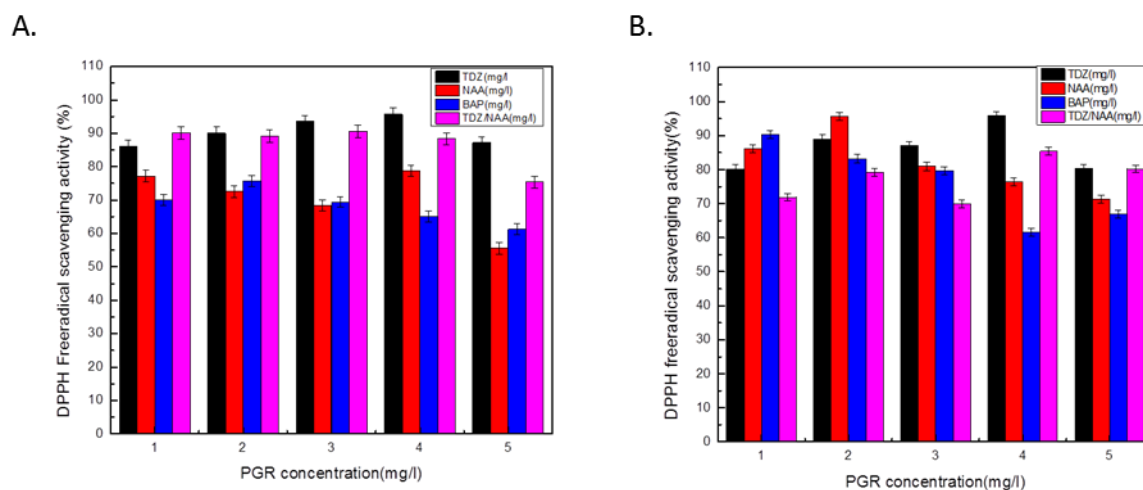
	CA	RA	BA	OA	PA
CA					
RA	0.506				
BA	-0.064	0.491			
OA	0.137	0.467	0.830**		
PA	0.263	0.525	0.520	0.718**	

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* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$

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46 **Figure S1**



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48 **Figure S1:** Comparison of DPPH antioxidant activity of extracts at different PGRs from stem-derived callus
49 culture (A) or leaf-derived callus culture (B).

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