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### *Supplementary Data*

## First report of *Plectropomus pessuliferus* from Indian Peninsula with species delimitation analysis based on COI gene

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## Supplementary Tables

Table S1 — Details of sequences used in the species delimitation analysis and maximum likelihood tree along with their K2P distance with recent study

Species Name	Accession number	Collection localities	Citations	<i>Plectropomus pessuliferus</i> MW881247.1 India (Current study) (K2P distance)
<i>Plectropomus leopardus</i>	JX675030.1	Andaman India	Sachithanandam <i>et al.</i> <sup>27</sup>	0.7 %
<i>Plectropomus leopardus</i>	MF537262.1	India	–	0.3 %
<i>Plectropomus leopardus</i>	MF185602.1	–	Qu <i>et al.</i> <sup>28</sup>	2.0 %
<i>Plectropomus leopardus</i>	MF185603.1	–	Qu <i>et al.</i> <sup>28</sup>	2.0 %
<i>Plectropomus leopardus</i>	KM658703.1	Australia	Ma <i>et al.</i> <sup>29</sup>	0.8 %
<i>Plectropomus leopardus</i>	KM881528.1	Australia	Ma <i>et al.</i> <sup>29</sup>	2.0 %
<i>Plectropomus leopardus</i>	KM226309.1	India	Basheer <i>et al.</i> <sup>30</sup>	0.3 %
<i>Plectropomus leopardus</i>	KM226310.1	India	Basheer <i>et al.</i> <sup>30</sup>	0.3 %
<i>Plectropomus leopardus</i>	KM077933.1	New Caledonia	Schoelinck <i>et al.</i> <sup>31</sup>	0.8 %
<i>Plectropomus leopardus</i>	MG253533.1	–	He <i>et al.</i> <sup>32</sup>	1.0 %
<i>Plectropomus leopardus</i>	MG253528.1	–	–	1.0 %
<i>Plectropomus leopardus</i>	DQ107921.1	Australia	Mohan <i>et al.</i> <sup>33</sup>	0.8 %
<i>Plectropomus leopardus</i>	KY950381.1	Indonesia	–	1.9 %
<i>Plectropomus leopardus</i>	KY950376.1	Indonesia	–	1.8 %
<i>Plectropomus leopardus</i>	JQ513304.1	Australia	Xiaopeng <i>et al.</i> <sup>34</sup>	0.9 %
<i>Plectropomus leopardus</i>	KU722934.1	Malaysia	–	1.8 %
<i>Plectropomus leopardus</i>	KU668636.1	–	–	1.8 %
<i>Plectropomus leopardus</i>	KU943477.1	Taiwan	–	1.5 %
<i>Plectropomus leopardus</i>	KJ130973.1	Philippines	Alcantara & Yambot <sup>35</sup>	1.9 %
<i>Plectropomus leopardus</i>	KR863513.1	Malaysia	Aziz <i>et al.</i> <sup>36</sup>	1.8 %
<i>Plectropomus leopardus</i>	JF750763.1	China	Sachithanandam <i>et al.</i> <sup>37</sup>	2.3 %
<i>Plectropomus leopardus</i>	MK777629.1	Vietnam	Thu <i>et al.</i> <sup>38</sup>	1.7 %
<i>Plectropomus leopardus</i>	KC970497.1	Phillipines	Alcantara & Yambot <sup>35</sup>	1.4 %
<i>Plectropomus leopardus</i>	KP194932.1	Australia	–	1.2 %
<i>Plectropomus leopardus</i>	JF952815.1	Japan	Sachithanandam <i>et al.</i> <sup>37</sup>	1.8 %
<i>Plectropomus leopardus</i>	JN021314.1	USA	Sachithanandam <i>et al.</i> <sup>37</sup>	1.7 %
<i>Plectropomus leopardus</i>	JN313058.1	Indonesia	–	1.8 %
<i>Plectropomus leopardus</i>	GU673949.1	Indonesia	Sachithanandam <i>et al.</i> <sup>37</sup>	1.8 %
<i>Plectropomus leopardus</i>	GU674047.1	Indonesia	Sachithanandam <i>et al.</i> <sup>37</sup>	1.7 %
<i>Plectropomus leopardus</i>	MN708944.1	Vietnam	–	1.7 %
<i>Plectropomus leopardus</i>	MN708945.1	Vietnam	–	2.1 %
<i>Plectropomus leopardus</i>	JX675031.1	India	Sachithanandam <i>et al.</i> <sup>27</sup>	0.7 %
<i>Plectropomus leopardus</i>	JX675033.1	India	Sachithanandam <i>et al.</i> <sup>27</sup>	0.7 %
<i>Plectropomus leopardus</i>	JQ513300.1	–	–	1.5 %
<i>Plectropomus leopardus</i>	EU595233.1	China	Mohan <i>et al.</i> <sup>33</sup>	2.2 %
<i>Plectropomus leopardus</i>	JQ513292.1	–	–	1.9 %
<i>Plectropomus leopardus</i>	MF537263.1	India	–	0.7 %

Contd ...

Table S1 — Details of sequences used in the species delimitation analysis and maximum likelihood tree along with their K2P distance with recent study (*Contd ...*)

Species Name	Accession number	Collection localities	Citations	<i>Plectropomus pessuliferus</i> MW881247.1 India (Current study) (K2P distance)
<i>Plectropomus leopardus</i>	MN708946.1	Vietnam	–	1.6 %
<i>Plectropomus pessuliferus pessuliferus</i>	KM658726.1	–	Ma <i>et al.</i> <sup>29</sup>	0.5 %
<i>Plectropomus pessuliferus pessuliferus</i>	KM658727.1	–	Ma <i>et al.</i> <sup>29</sup>	0.5 %
<i>Plectropomus pessuliferus pessuliferus</i>	KM658730.1	–	Ma <i>et al.</i> <sup>29</sup>	0.5 %
<i>Plectropomus pessuliferus</i>	KM658731.1	–	Ma <i>et al.</i> <sup>29</sup>	0.7 %
<i>Plectropomus pessuliferus pessuliferus</i>	KM656854.1	–	Ma <i>et al.</i> <sup>29</sup>	0.3 %
<i>Plectropomus pessuliferus pessuliferus</i>	KM658728.1	–	Ma <i>et al.</i> <sup>29</sup>	0.3 %
<i>Plectropomus pessuliferus pessuliferus</i>	KM658729.1	–	Ma <i>et al.</i> <sup>29</sup>	0.3 %
<i>Plectropomus pessuliferus</i>	MK340678.1	Bangladesh	Habib <i>et al.</i> <sup>39</sup>	0.8 %
<i>Plectropomus pessuliferus marisrubri</i>	KM656855.1	USA	Ma <i>et al.</i> <sup>29</sup>	9.8 %
<i>Plectropomus pessuliferus marisrubri</i>	KM658733.1	USA	Ma <i>et al.</i> <sup>29</sup>	9.8 %
<i>Plectropomus pessuliferus marisrubri</i>	KM658732.1	USA	Ma <i>et al.</i> <sup>29</sup>	9.8 %
<i>Plectropomus pessuliferus marisrubri</i>	KM658734.1	USA	Ma <i>et al.</i> <sup>29</sup>	9.7 %
<i>Plectropomus pessuliferus marisrubri</i>	KM658735.1	USA	Ma <i>et al.</i> <sup>29</sup>	9.7 %
<i>Plectropomus pessuliferus marisrubri</i>	KM658736.1	USA	Ma <i>et al.</i> <sup>29</sup>	9.7 %
(P. l x P. m) x P. l	MG253515.1	Australia	He <i>et al.</i> <sup>1</sup>	1.1 %
(P. l x P. m)	MG253522.1	Australia	He <i>et al.</i> <sup>1</sup>	1.0 %
(P. l x P. m)	MG253523.1	Australia	He <i>et al.</i> <sup>1</sup>	1.0 %
(P. l x P. m)	MG253524.1	Australia	He <i>et al.</i> <sup>1</sup>	1.0 %
(P. l x P. m)	MG253525.1	Australia	He <i>et al.</i> <sup>1</sup>	1.0 %
(P. l x P. m)	MG253526.1	Australia	He <i>et al.</i> <sup>1</sup>	1.0 %
(P. l x P. m)	MG253527.1	Australia	He <i>et al.</i> <sup>1</sup>	1.0 %
(P. l x P. m) x P. m)	MG253516.1	Australia	He <i>et al.</i> <sup>1</sup>	1.0 %
(P. l x P. m) x P. m)	MG253517.1	Australia	He <i>et al.</i> <sup>1</sup>	1.0 %
(P. l x P. m) x P. m)	MG253518.1	Australia	He <i>et al.</i> <sup>1</sup>	1.6 %
(P. l x P. m) x P. m)	MG253519.1	Australia	He <i>et al.</i> <sup>1</sup>	1.0 %
(P. l x P. m) x P. m)	MG253520.1	Australia	He <i>et al.</i> <sup>1</sup>	1.1 %
(P. l x P. m) x P. m)	MG253521.1	Australia	He <i>et al.</i> <sup>1</sup>	1.0 %
(P. l x P. m) x P. l	MG253508.1	Australia	He <i>et al.</i> <sup>1</sup>	1.0 %
(P. l x P. m) x P. l	MG253509.1	Australia	He <i>et al.</i> <sup>1</sup>	1.0 %

*Contd ....*

Table S1 — Details of sequences used in the species delimitation analysis and maximum likelihood tree along with their K2P distance with recent study (*Contd ...*)

Species Name	Accession number	Collection localities	Citations	<i>Plectropomus pessuliferus</i> MW881247.1 India (Current study) (K2P distance)
(P. l x P. m) x P. l	MG253510.1	Australia	He <i>et al.</i> <sup>1</sup>	1.0 %
(P. l x P. m) x P. l	MG253511.1	Australia	He <i>et al.</i> <sup>1</sup>	1.0 %
(P. l x P. m) x P. l	MG253512.1	Australia	He <i>et al.</i> <sup>1</sup>	1.0 %
(P. l x P. m) x P. l	MG253513.1	Australia	He <i>et al.</i> <sup>1</sup>	1.0 %
(P. l x P. m) x P. l	MG253514.1	Australia	He <i>et al.</i> <sup>1</sup>	1.0 %
<i>Plectropomus maculatus</i>	KM658716.1	–	Ma <i>et al.</i> <sup>29</sup>	1.0 %
<i>Plectropomus maculatus</i>	KM658715.1	–	Ma <i>et al.</i> <sup>29</sup>	1.0 %
<i>Plectropomus maculatus</i>	MG253535.1	–	–	1.0 %
<i>Plectropomus maculatus</i>	MG253536.1	–	–	1.0 %
<i>Plectropomus maculatus</i>	JX123681.1	Andaman_India	Sachithanandam <i>et al.</i> <sup>27</sup>	2.7 %
<i>Plectropomus maculatus</i>	JX123683.1	Andaman_India	Sachithanandam <i>et al.</i> <sup>27</sup>	2.7 %
<i>Plectropomus maculatus</i>	DQ107913.1	Australia	–	5.3 %
<i>Plectropomus maculatus</i>	JN313061.1	Indonesia	Basheer <i>et al.</i> <sup>30</sup>	5.1 %
<i>Plectropomus maculatus</i>	KM656853.1	–	Ma <i>et al.</i> <sup>29</sup>	5.4 %
<i>Plectropomus maculatus</i>	MF185616.1	–	–	5.1 %
<i>Plectropomus maculatus</i>	KJ130974.1	Phillipines	Alcantara & Yambot <sup>35</sup>	5.9 %
<i>Plectropomus maculatus</i>	KJ594990.1	Phillipines	Alcantara & Yambot <sup>35</sup>	6.0 %
<i>Plectropomus maculatus</i>	HQ956485.1	Australia	Sachithanandam <i>et al.</i> <sup>37</sup>	0.8 %
<i>Plectropomus maculatus</i>	HQ956486.1	Australia	Sachithanandam <i>et al.</i> <sup>37</sup>	5.2 %
<i>Plectropomus maculatus</i>	JN313062.1	Indonesia	Sachithanandam <i>et al.</i> <sup>37</sup>	5.1 %
<i>Plectropomus maculatus</i>	GU673821.1	Indonesia	Disertasi <sup>40</sup>	5.2 %
<i>Plectropomus maculatus</i>	MN708949.1	Vietnam	Disertasi <sup>40</sup>	5.2 %
<i>Plectropomus maculatus</i>	MN708950.1	Vietnam	Disertasi <sup>40</sup>	5.5 %
<i>Plectropomus maculatus</i>	KU722935.1	Malysia	–	5.2 %
<i>Plectropomus maculatus</i>	DQ107911.1	Australia	Mohan <i>et al.</i> <sup>33</sup>	5.1 %
<i>Plectropomus maculatus</i>	DQ107910.1	Australia	Mohan <i>et al.</i> <sup>33</sup>	4.9 %
<i>Plectropomus maculatus</i>	FJ583869.1	Phillipines	Mohan <i>et al.</i> <sup>33</sup>	5.2 %
<i>Plectropomus maculatus</i>	KM658704.1	–	Ma <i>et al.</i> <sup>29</sup>	1.5 %
<i>Plectropomus maculatus</i>	MF185615.1	–	–	5.1 %
<i>Plectropomus maculatus</i>	MF185614.1	–	–	5.3 %
<i>Plectropomus maculatus</i>	KM658708.1	–	Ma <i>et al.</i> <sup>29</sup>	5.9 %

“–”: Not available; P. l.: *Plectropomus leopardus*; P.m.: *Plectropomus maculatus*; P.p: *Plectropomus pessuliferus*