

SUPPLEMENTARY INFORMATION

Molecular characterization of *Schellackia* parasites in an urban population of sand lizards (*Lacerta agilis*) from Berlin, Germany

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Veith et al., Supplemental Table S1

Table S1: Oligonucleotides for amplification of 18S rRNA of *Schellackia* parasites

Primer	Sequence 5'- 3'	Author
Hep600F1	TCG TAG TTG GAT TTC TGT CG	MEGÍA-PALMA et al., 2013
Hep1600R	AAA GGG CAG GGA CGT AAT CGG	MEGÍA-PALMA et al., 2013

Veith et al., Supplemental Table S2

Table S2: Gene accession numbers of sequences included in phylogenetic analysis

Type	GenBank Nr	Host species	Author	Locality
<i>Schellackia</i> sp. BerLa	ON046638	<i>Lacerta agilis</i>	Current study	Germany: Berlin
<i>Schellackia</i> sp. BerLa	ON046639	<i>Lacerta agilis</i>	Current study	Germany: Berlin
<i>Schellackia</i> sp.	KY046254	<i>Chelonia mydas</i>	DE GOUVEA PEDROSO et al., 2020	Australia
<i>Schellackia</i> sp. Ls-C	MK512382	<i>Ixodes ricinus</i> fed on <i>Lacerta schreiberi</i>	ZECHMEISTEROVÁ et al., 2019	Spain
<i>Schellackia</i> sp.	KY707337	<i>Lacerta viridis</i>	Kočíková et al., 2018	Slovakia: Zadiel
<i>Schellackia</i> sp. P1	MG775262	<i>Podarcis guadarramae</i>	MEGÍA-PALMA et al., 2018	Spain: Madrid, Segovia, Cuenca, Huesca
<i>Schellackia</i> sp. P1a	MG775263	<i>Podarcis guadarramae</i>	MEGÍA-PALMA et al., 2018	Spain: Guadarrama Mountains
<i>Schellackia</i> sp. P1b	MG775264	<i>Podarcis muralis</i>	MEGÍA-PALMA et al., 2018	Spain: Huesca
<i>Schellackia</i> sp. P2	MG775265	<i>Podarcis muralis</i>	MEGÍA-PALMA et al., 2018	Spain: Madrid
<i>Schellackia</i> sp. P3	MG775266	<i>Podarcis muralis</i>	MEGÍA-PALMA et al., 2018	Spain: Leon, Madrid, Segovia, Chafarinas Islands, Toledo, Lerida
<i>Schellackia</i> sp. PS1	MG775267	<i>Psammmodromus algirus</i>	MEGÍA-PALMA et al., 2018	Spain: Segovia, Madrid, Toledo, Valencia, and Huelva
<i>Schellackia</i> sp. Z1	MG775268	<i>Zootoca vivipara</i>	MEGÍA-PALMA et al., 2018	Spain: Huesca, Irun
<i>Schellackia</i> sp. Z2	MG775269	<i>Zootoca vivipara</i>	MEGÍA-PALMA et al., 2018	Spain: Huesca
<i>Schellackia</i> sp. IB244	MG775270	<i>Iberolacerta cyreni</i>	MEGÍA-PALMA et al., 2018	Spain: Madrid
<i>Schellackia</i> sp. IB28	MG775271	<i>Iberolacerta monticola</i>	MEGÍA-PALMA et al., 2018	Spain: Asturias, Leon, Pyrenees Mountains
<i>Schellackia</i> sp.	KJ189384	<i>Podarcis hispanicus</i>	MAIA et al., 2014	Portugal: Geres

<i>Schellackia</i> sp.	KJ189383	<i>Podarcis bocagei</i>	MAIA et al., 2014	Portugal: Geres
<i>Schellackia</i> sp.	KJ189382	<i>Podarcis bocagei</i>	MAIA et al., 2014	Portugal: Geres
<i>Schellackia bolivari</i> Ae-M	KJ131415	<i>Acanthodactylus erythrurus</i>	MEGÍA-PALMA et al., 2014	Morocco
<i>Schellackia bolivari</i> Ae-S	KJ131416	<i>Acanthodactylus erythrurus</i>	MEGÍA-PALMA et al., 2014	Spain: Madrid
<i>Schellackia</i> sp. 1 JM 2013 Ph-B4	JX984676	<i>Podarcis hispanicus</i>	MEGÍA-PALMA et al., 2013	Spain
<i>Schellackia</i> sp.	MG775272	<i>Timon lepidus</i>	MEGÍA-PALMA et al., 2013	Spain: Segovia
<i>Schellackia</i> sp. LS-A	JX984674	<i>Lacerta schreiberi</i>	MEGÍA-PALMA et al., 2013	Spain: Segovia
<i>Schellackia</i> sp. LS-B	JX984675	<i>Lacerta schreiberi</i>	MEGÍA-PALMA et al., 2013	Spain: Segovia
<i>Schellackia orientalis</i> TKso	KC788221	<i>Takydromus sexlineatus</i>	MEGÍA-PALMA et al., 2013	-
<i>Lankesterella</i> sp. DD4	MF167548	<i>Dipsosaurus dorsalis</i>	MEGÍA-PALMA et al., 2017	USA
<i>Lankesterella</i> sp. DD1	MF167547	<i>Dipsosaurus dorsalis</i>	MEGÍA-PALMA et al., 2017	USA
<i>Lankesterella</i> sp. US1	MF167549	<i>Uta stansburiana</i>	MEGÍA-PALMA et al., 2017	USA
<i>Goussia</i> sp.	FJ009243	<i>Bufo bufo</i>	JIRKŮ et al., 2009	Czech Republic
<i>Goussia noelleri</i>	FJ009241	<i>Rana dalmatina</i>	JIRKŮ et al., 2009	Czech Republic
<i>Goussia neglecta</i>	FJ009242	<i>Pelophylax esculentus</i>	JIRKŮ et al., 2009	Czech Republic

Veith et al., Supplemental Table S3

Table S3: *Lacerta agilis* captures and *Schellackia* sp. PCR screening (18S rRNA) results

Results	Females	Males	Subadults	Total
negative	34	18	18	70
positive	4	6	3	13
Total	38	24	21	83

Veith et al., Supplemental Table S4

Table S4: Comparison of sporozoite sizes of *Schellackia* sp. of *L. agilis* of this study with *Schellackia* sporozoites of *L. schreiberi* and *P. hispanicus*

Sample	Host	N	Sporozoite sizes				Locality
			Length (µm)		Width (µm)		
			Mean (± SD)	Range	Mean (± SD)	Range	
BerLa*	<i>Lacerta agilis</i>	24	5.9 (± 0.7)	4.2 - 7.0	3.7 (± 0.7)	2.4 - 5.0	Germany (Berlin)
Ls-A**	<i>Lacerta schreiberi</i>	64	5.3 (± 0.6)	4.0 - 6.8	3.4 (± 0.5)	2.3 - 4.7	Spain: Segovia
Ls-B**	<i>Lacerta schreiberi</i>	24	5.6 (± 0.8)	4.7 - 8.5	3.3 (± 0.6)	2.2 - 4.4	Spain: Segovia
1 JM 2013 Ph-B4**	<i>Podarcis hispanicus</i>	5	5.9 (± 0.7)	5.1 - 6.8	3.0 (± 0.4)	2.6 - 3.3	Spain: Segovia

*source: this study; **source: Megia Palma et al. 2013

Supplemental References

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