Leishmania RNA virus exacerbates Leishmaniasis by subverting innate immunity via TLR3-mediated NLRP3 inflammasome inhibition

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Supplementary Material (Figures and Tables)



Supplementary Figure 1. Generation of the clone 40 (*L.g.***-).** (**a**) Schematics of clone 40 generation (*L.g.*-). (**b**) PCR for LRV product (150 bp) and *Leishmania* G6PD (183 bp) in both clones (*L.g.*- and *L.g.*+). (**c,d**) Confocal microscopy in 8×10^6 fixed and permeabilized promastigotes from the WT strain and its LRV

negative clone 40. Parasites were stained for nuclei (DAPI) and dsRNA (J2 antibody). Scale bar: 5μ M. BF: Bright field. (**e**) The growth of both clones was followed in Schneider's insect medium and parasite concentration was determined daily by manual counting in Neubauer's chamber. The results are shown as mean \pm SD.



Supplem. Figure 2 de Carvalho et al.

Supplementary Figure 2. Gating strategy in flow-cytometric analysis.

Schematics of gating strategy demonstrating how true BMDMs were gated for subsequent analysis of infected cells, cell death and caspase-1 staining. BMDMs were initially gated to exclude debris and doublets (FSC-A/FSC-H). Then, true BMDMs were gated according to their granularity and size (SSC-A/FSC-A). Next, cells were gated according to the objective/staining in each experiment of the current study.



Supplementary Figure 3. LRV attenuates inflammasome activation by *L.g.* (a) C57BL/6 BMDMs were left unprimed or primed with LPS (500 ng/mL) for 4 hours, and then infected with SP Promastigotes of *L.g.* clones at MOI 10. (b) LPS-primed (500 ng/mL) BMDMs were infected with three different MOI of SP Promastigotes of *L.g.*- or *L.g.*+. (c) Cells were primed for 4h with either LPS (500 ng/mL), PAM(3)CSK(4) (300 ng/mL) or TNF- α (10 ng/mL), and then infected for 24h with *L.g.*- or *L.g.*+. (d) BMDMs from different mouse strains were primed with LPS and infected for 24h with *L.g.* clones, or treated with 20 µM of Nigericin (positive control). After 24 hours, supernatants were collected and ELISA for IL-1β was performed in cell-free supernatants. One representative of at least two independent experiments performed with technical replicates is shown. The results are shown as mean ± SD. Statistical analysis was performed by unpaired Student's *t test*, and *P*<0.05 (*) was considered statistically significant.



Supplem. Figure 4 de Carvalho et al.

Supplementary Figure 4. LRV induces transcription of different

inflammatory genes. C57BL/6 BMDMs were infected with *L.g.*- or *L.g.*+ for 6 (**a,c,e,g**) or 24 hours (**b,d,f,h**). qPCR for *ll1b* (**a,b**), *Tnfa* (**c,d**), *ll12* (**e,f**) and *lfnb* (**g,h**) was performed. Poly:IC (5 μ g/mL) was used as a positive control. One representative of two independent experiments performed with technical replicates is shown. The results are shown as mean ± SD. Statistical analysis was performed by unpaired Student's *t test*, and *P*<0.05 (*) was considered statistically significant.

Supplem. Figure 5 de Carvalho et al.



Supplementary Figure 5. LRV does not interfere with the generation of second signals by *L.g.* (a-c) C57BL/6 BMDMs were infected with either *L.g.*- or *L.g.*+ for 90 minutes. Then, a fluorescent dye staining total (a,b) or mitochondrial (c) ROS was added for additional 30 minutes. Cells were harvested and analyzed by FACS. (d) Cells were incubated with APG-2 dye and 12 hours after infection, levels of intracellular potassium were determined by a High Content Screening Confocal equipment. The results are shown as mean \pm SD. Statistical analysis was performed by unpaired Student's *t test*, and *P*<0.05 (*) was considered statistically significant. One representative of two independent experiments performed with technical replicates is shown.





Supplementary Figure 6. TLR3, TRIF, IFN- β and NLRP3 are required for LRV-mediated parasite survival. (a,b) C57BL/6 BMDMs were infected with metacyclic parasites from either *L.g.*- or *L.g.*+ at a MOI of 1. After 1h of infection, cells were washed and replaced with fresh medium containing either Poly:IC (5 µg/mL) (I) or IFN- β (1000 U/mL), and left for 48 hours in culture. The results are shown as mean ± SD. Statistical analysis was performed by unpaired Student's *t test*, and *P*<0.05 (*) was considered statistically significant. One representative of two independent experiments performed with technical replicates is shown.



Supplementary Figure 7. LRV does not alter the transcription of inflammasome components. C57BL/6 BMDMs were infected with *L.g.*- or *L.g.*+. After 6 (**a-c**) or 24h of infection (**d-f**), total RNA was extracted. Levels of *NIrp3* (**a,d**), *Asc* (**b,e**) and *casp1* (**c,f**) transcripts were determined by qPCR analysis. Poly:IC (5 μ g/mL) was used as a positive control. The results are shown as mean ± SD. One representative of two independent experiments performed with technical replicates is shown.



Supplementary Figure 8. LRV exacerbates *L.g.* infection via ASC, CASP1 and TLR3 *in vivo*. (a-d) C57BL/6 (a), $Asc^{-/-}$ (b), $Casp1^{-/-}$ (c) and $Tlr3^{-/-}$ (d) mice were injected with 10⁶ Stationary-phase promastigotes of *L.g.*- or *L.g.*+ (n = 4-5

mice per group), and ear thicknesses were followed weekly (**a-d**). 4 weeks after infection, parasite titers were determined in the ear (**e**) and draining lymph node (**f**) from all mice used in this experiment. The results are shown as mean (**e**,**f**) or mean \pm SD (**a**,**b**,**c**,**d**) from data obtained from two independent experiments performed with biological replicates. Statistical analysis was performed by two-way ANOVA with Bonferroni's multiple comparison test. *P*<0.05 (*) was considered statistically significant.

Supplem. Table 1

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21L. guyanensisRondônia, BrazilCLPOSITIVE22L. braziliensisRondônia, BrazilCLNEGATIVE23L. braziliensisRondônia, BrazilCLNEGATIVE24Leishmania spp.Rondônia, BrazilCLNEGATIVE25L. braziliensisRondônia, BrazilCLNEGATIVE26L. braziliensisRondônia, BrazilCLNEGATIVE27Leishmania spp.Rondônia, BrazilMCLNEGATIVE28L. braziliensisRondônia, BrazilMCLPOSITIVE29Leishmania spp.Rondônia, BrazilMCLPOSITIVE30Leishmania spp.Rondônia, BrazilCLNEGATIVE31Leishmania spp.Rondônia, BrazilCLNEGATIVE33L. guyanensisRondônia, BrazilCLNEGATIVE34Leishmania spp.Rondônia, BrazilCLNEGATIVE35L. braziliensisRondônia, BrazilMCLNEGATIVE36L. braziliensisRondônia, BrazilMCLNEGATIVE37L. braziliensisRondônia, BrazilMCLPOSITIVE38Leishmania spp.Rondônia, BrazilMCLPOSITIVE39L. braziliensisRondônia, BrazilCLNEGATIVE39L. braziliensisRondônia, BrazilCLNEGATIVE40L. braziliensisRondônia, BrazilCLNEGATIVE41Leishmania spp.Rondônia, BrazilCLNEGATIVE <td>20</td> <td>L. braziliensis</td> <td>Rondônia, Brazil</td> <td>CL</td> <td>POSITIVE</td>	20	L. braziliensis	Rondônia, Brazil	CL	POSITIVE
22L. braziliensisRondônia, BrazilCLNEGATIVE23L. braziliensisRondônia, BrazilCLNEGATIVE24Leishmania spp.Rondônia, BrazilCLNEGATIVE25L. braziliensisRondônia, BrazilCLNEGATIVE26L. braziliensisRondônia, BrazilCLNEGATIVE27Leishmania spp.Rondônia, BrazilMCLNEGATIVE28L. braziliensisRondônia, BrazilMCLPOSITIVE29Leishmania spp.Rondônia, BrazilMCLPOSITIVE30Leishmania spp.Rondônia, BrazilCLNEGATIVE31Leishmania spp.Rondônia, BrazilCLNEGATIVE32L. braziliensisRondônia, BrazilCLNEGATIVE33L. guyanensisRondônia, BrazilCLNEGATIVE34Leishmania spp.Rondônia, BrazilCLNEGATIVE35L. braziliensisRondônia, BrazilCLNEGATIVE36L. braziliensisRondônia, BrazilCLNEGATIVE37L. braziliensisRondônia, BrazilCLNEGATIVE38Leishmania spp.Rondônia, BrazilCLNEGATIVE39L. braziliensisRondônia, BrazilCLNEGATIVE39L. braziliensisRondônia, BrazilCLNEGATIVE40L. braziliensisRondônia, BrazilCLNEGATIVE41Leishmania spp.Rondônia, BrazilCLNEGATIVE	21	L. guyanensis	Rondônia, Brazil	CL	POSITIVE
23L. braziliensisRondônia, BrazilCLNEGATIVE24Leishmania spp.Rondônia, BrazilCLNEGATIVE25L. braziliensisRondônia, BrazilCLNEGATIVE26L. braziliensisRondônia, BrazilMCLNEGATIVE27Leishmania spp.Rondônia, BrazilMCLNEGATIVE28L. braziliensisRondônia, BrazilMCLPOSITIVE29Leishmania spp.Rondônia, BrazilMCLPOSITIVE30Leishmania spp.Rondônia, BrazilCLNEGATIVE31Leishmania spp.Rondônia, BrazilCLNEGATIVE32L. braziliensisRondônia, BrazilCLNEGATIVE33L. guyanensisRondônia, BrazilCLNEGATIVE34Leishmania spp.Rondônia, BrazilMCLNEGATIVE35L. braziliensisRondônia, BrazilMCLNEGATIVE36L. braziliensisRondônia, BrazilMCLPOSITIVE37L. braziliensisRondônia, BrazilMCLPOSITIVE38Leishmania spp.Rondônia, BrazilCLNEGATIVE39L. braziliensisRondônia, BrazilCLNEGATIVE40L. braziliensisRondônia, BrazilCLNEGATIVE41Leishmania spp.Rondônia, BrazilCLNEGATIVE42L. guyanensisRondônia, BrazilCLNEGATIVE43L. braziliensisRondônia, BrazilCLNEGATIVE </td <td>22</td> <td>L. braziliensis</td> <td>Rondônia, Brazil</td> <td>CL</td> <td>NEGATIVE</td>	22	L. braziliensis	Rondônia, Brazil	CL	NEGATIVE
24Leishmania spp.Rondônia, BrazilCLNEGATIVE25L. braziliensisRondônia, BrazilCLNEGATIVE26L. braziliensisRondônia, BrazilMCLNEGATIVE27Leishmania spp.Rondônia, BrazilMCLNEGATIVE28L. braziliensisRondônia, BrazilMCLPOSITIVE29Leishmania spp.Rondônia, BrazilMCLPOSITIVE30Leishmania spp.Rondônia, BrazilMCLPOSITIVE31Leishmania spp.Rondônia, BrazilCLNEGATIVE32L. braziliensisRondônia, BrazilCLNEGATIVE33L. guyanensisRondônia, BrazilCLNEGATIVE34Leishmania spp.Rondônia, BrazilCLNEGATIVE35L. guyanensisRondônia, BrazilMCLPOSITIVE36L. braziliensisRondônia, BrazilMCLPOSITIVE37L. braziliensisRondônia, BrazilMCLPOSITIVE38Leishmania spp.Rondônia, BrazilCLNEGATIVE39L. braziliensisRondônia, BrazilCLNEGATIVE40L. braziliensisRondônia, BrazilCLNEGATIVE41Leishmania spp.Rondônia, BrazilCLNEGATIVE42L. guyanensisRondônia, BrazilCLNEGATIVE43L. braziliensisRondônia, BrazilCLNEGATIVE43L. braziliensisRondônia, BrazilCLNEGATIVE <td>23</td> <td>L. braziliensis</td> <td>Rondônia, Brazil</td> <td>CL</td> <td>NEGATIVE</td>	23	L. braziliensis	Rondônia, Brazil	CL	NEGATIVE
25L. braziliensisRondônia, BrazilCLNEGATIVE26L. braziliensisRondônia, BrazilMCLNEGATIVE27Leishmania spp.Rondônia, BrazilCLNEGATIVE28L. braziliensisRondônia, BrazilMCLPOSITIVE29Leishmania spp.Rondônia, BrazilMCLPOSITIVE30Leishmania spp.Rondônia, BrazilMCLPOSITIVE31Leishmania spp.Rondônia, BrazilCLNEGATIVE32L. braziliensisRondônia, BrazilCLNEGATIVE33L. guyanensisRondônia, BrazilCLNEGATIVE34Leishmania spp.Rondônia, BrazilMCLNEGATIVE35L. guyanensisRondônia, BrazilMCLNEGATIVE36L. braziliensisRondônia, BrazilMCLPOSITIVE37L. braziliensisRondônia, BrazilMCLPOSITIVE38Leishmania spp.Rondônia, BrazilCLNEGATIVE39L. braziliensisRondônia, BrazilCLNEGATIVE40L. braziliensisRondônia, BrazilCLPOSITIVE41Leishmania spp.Rondônia, BrazilCLNEGATIVE42L. guyanensisRondônia, BrazilCLNEGATIVE43L. braziliensisRondônia, BrazilCLNEGATIVE43L. braziliensisRondônia, BrazilCLNEGATIVE43L. braziliensisRondônia, BrazilCLNEGATIVE <td>24</td> <td>Leishmania spp.</td> <td>Rondônia, Brazil</td> <td>CL</td> <td>NEGATIVE</td>	24	Leishmania spp.	Rondônia, Brazil	CL	NEGATIVE
26L. braziliensisRondônia, BrazilMCLNEGATIVE27Leishmania spp.Rondônia, BrazilCLNEGATIVE28L. braziliensisRondônia, BrazilMCLPOSITIVE29Leishmania spp.Rondônia, BrazilMCLPOSITIVE30Leishmania spp.Rondônia, BrazilMCLPOSITIVE31Leishmania spp.Rondônia, BrazilCLNEGATIVE32L. braziliensisRondônia, BrazilCLNEGATIVE33L. guyanensisRondônia, BrazilCLPOSITIVE34Leishmania spp.Rondônia, BrazilMCLNEGATIVE35L. braziliensisRondônia, BrazilMCLNEGATIVE36L. braziliensisRondônia, BrazilMCLPOSITIVE37L. braziliensisRondônia, BrazilMCLPOSITIVE38Leishmania spp.Rondônia, BrazilCLNEGATIVE39L. braziliensisRondônia, BrazilCLNEGATIVE40L. braziliensisRondônia, BrazilCLPOSITIVE41Leishmania spp.Rondônia, BrazilCLNEGATIVE42L. guyanensisRondônia, BrazilCLNEGATIVE43L. braziliensisRondônia, BrazilCLNEGATIVE43L. braziliensisRondônia, BrazilCLNEGATIVE43L. braziliensisRondônia, BrazilCLNEGATIVE43L. braziliensisRondônia, BrazilCLNEGATIVE </td <td>25</td> <td>L. braziliensis</td> <td>Rondônia, Brazil</td> <td>CL</td> <td>NEGATIVE</td>	25	L. braziliensis	Rondônia, Brazil	CL	NEGATIVE
27Leishmania spp.Rondônia, BrazilCLNEGATIVE28L. braziliensisRondônia, BrazilMCLPOSITIVE29Leishmania spp.Rondônia, BrazilMCLPOSITIVE30Leishmania spp.Rondônia, BrazilCLNEGATIVE31Leishmania spp.Rondônia, BrazilCLNEGATIVE32L. braziliensisRondônia, BrazilCLNEGATIVE33L. guyanensisRondônia, BrazilCLNEGATIVE34Leishmania spp.Rondônia, BrazilMCLNEGATIVE35L. braziliensisRondônia, BrazilMCLNEGATIVE36L. braziliensisRondônia, BrazilMCLPOSITIVE37L. braziliensisRondônia, BrazilMCLPOSITIVE38Leishmania spp.Rondônia, BrazilCLNEGATIVE39L. braziliensisRondônia, BrazilCLNEGATIVE40L. braziliensisRondônia, BrazilCLPOSITIVE41Leishmania spp.Rondônia, BrazilCLNEGATIVE42L. guyanensisRondônia, BrazilCLNEGATIVE43L. braziliensisRondônia, BrazilCLNEGATIVE43L. braziliensisRondônia, BrazilCLNEGATIVE43L. braziliensisRondônia, BrazilCLNEGATIVE43L. braziliensisRondônia, BrazilCLNEGATIVE43L. braziliensisRondônia, BrazilCLNEGATIVE <td>26</td> <td>L. braziliensis</td> <td>Rondônia, Brazil</td> <td>MCL</td> <td>NEGATIVE</td>	26	L. braziliensis	Rondônia, Brazil	MCL	NEGATIVE
28L. braziliensisRondônia, BrazilMCLPOSITIVE29Leishmania spp.Rondônia, BrazilMCLPOSITIVE30Leishmania spp.Rondônia, BrazilCLNEGATIVE31Leishmania spp.Rondônia, BrazilCLNEGATIVE32L. braziliensisRondônia, BrazilCLPOSITIVE33L. guyanensisRondônia, BrazilCLPOSITIVE34Leishmania spp.Rondônia, BrazilMCLNEGATIVE35L. braziliensisRondônia, BrazilMCLNEGATIVE36L. braziliensisRondônia, BrazilMCLPOSITIVE37L. braziliensisRondônia, BrazilMCLPOSITIVE38Leishmania spp.Rondônia, BrazilCLNEGATIVE39L. braziliensisRondônia, BrazilCLNEGATIVE40L. braziliensisRondônia, BrazilCLPOSITIVE41Leishmania spp.Rondônia, BrazilCLNEGATIVE42L. guyanensisRondônia, BrazilCLNEGATIVE43L. braziliensisRondônia, BrazilCLNEGATIVE43L. braziliensisRondônia, BrazilCLNEGATIVE43L. braziliensisRondônia, BrazilCLNEGATIVE43L. braziliensisRondônia, BrazilCLNEGATIVE43L. braziliensisRondônia, BrazilCLNEGATIVE	27	Leishmania spp.	Rondônia, Brazil	CL	NEGATIVE
29Leishmania spp.Rondônia, BrazilMCLPOSITIVE30Leishmania spp.Rondônia, BrazilCLNEGATIVE31Leishmania spp.Rondônia, BrazilCLNEGATIVE32L. braziliensisRondônia, BrazilCLPOSITIVE33L. guyanensisRondônia, BrazilCLPOSITIVE34Leishmania spp.Rondônia, BrazilMCLNEGATIVE35L. braziliensisRondônia, BrazilMCLNEGATIVE36L. braziliensisRondônia, BrazilMCLPOSITIVE37L. braziliensisRondônia, BrazilCLNEGATIVE38Leishmania spp.Rondônia, BrazilCLNEGATIVE39L. braziliensisRondônia, BrazilCLNEGATIVE40L. braziliensisRondônia, BrazilCLPOSITIVE41Leishmania spp.Rondônia, BrazilCLPOSITIVE42L. guyanensisRondônia, BrazilCLNEGATIVE43L. braziliensisRondônia, BrazilCLNEGATIVE43L. braziliensisRondônia, BrazilCLNEGATIVE	28	L. braziliensis	Rondônia, Brazil	MCL	POSITIVE
30Leishmania spp.Rondônia, BrazilCLNEGATIVE31Leishmania spp.Rondônia, BrazilCLNEGATIVE32L. braziliensisRondônia, BrazilCLPOSITIVE33L. guyanensisRondônia, BrazilMCLNEGATIVE34Leishmania spp.Rondônia, BrazilMCLNEGATIVE35L. braziliensisRondônia, BrazilMCLPOSITIVE36L. braziliensisRondônia, BrazilMCLPOSITIVE37L. braziliensisRondônia, BrazilCLNEGATIVE38Leishmania spp.Rondônia, BrazilCLNEGATIVE39L. braziliensisRondônia, BrazilCLNEGATIVE40L. braziliensisRondônia, BrazilCLPOSITIVE41Leishmania spp.Rondônia, BrazilCLNEGATIVE42L. guyanensisRondônia, BrazilCLNEGATIVE43L. braziliensisRondônia, BrazilCLNEGATIVE43L. braziliensisRondônia, BrazilCLNEGATIVE	29	Leishmania spp.	Rondônia, Brazil	MCL	POSITIVE
31Leishmania spp.Rondônia, BrazilCLNEGATIVE32L. braziliensisRondônia, BrazilCLPOSITIVE33L. guyanensisRondônia, BrazilMCLNEGATIVE34Leishmania spp.Rondônia, BrazilMCLNEGATIVE35L. braziliensisRondônia, BrazilMCLPOSITIVE36L. braziliensisRondônia, BrazilMCLPOSITIVE37L. braziliensisRondônia, BrazilCLNEGATIVE38Leishmania spp.Rondônia, BrazilCLNEGATIVE39L. braziliensisRondônia, BrazilCLNEGATIVE40L. braziliensisRondônia, BrazilCLPOSITIVE41Leishmania spp.Rondônia, BrazilCLPOSITIVE42L. guyanensisRondônia, BrazilCLNEGATIVE43L. braziliensisRondônia, BrazilCLNEGATIVE43L. braziliensisRondônia, BrazilCLNEGATIVE	30	Leishmania spp.	Rondônia, Brazil	CL	NEGATIVE
32L. braziliensisRondônia, BrazilCLPOSITIVE33L. guyanensisRondônia, BrazilMCLNEGATIVE34Leishmania spp.Rondônia, BrazilCLNEGATIVE35L. braziliensisRondônia, BrazilMCLPOSITIVE36L. braziliensisRondônia, BrazilMCLPOSITIVE37L. braziliensisRondônia, BrazilMCLPOSITIVE38Leishmania spp.Rondônia, BrazilCLNEGATIVE39L. braziliensisRondônia, BrazilCLPOSITIVE40L. braziliensisRondônia, BrazilCLPOSITIVE41Leishmania spp.Rondônia, BrazilCLNEGATIVE42L. guyanensisRondônia, BrazilCLNEGATIVE43L. braziliensisRondônia, BrazilCLNEGATIVE43L. braziliensisRondônia, BrazilCLNEGATIVE	31	Leishmania spp.	Rondônia, Brazil	CL	NEGATIVE
33L. guyanensisRondônia, BrazilMCLNEGATIVE34Leishmania spp.Rondônia, BrazilCLNEGATIVE35L. braziliensisRondônia, BrazilMCLPOSITIVE36L. braziliensisRondônia, BrazilMCLPOSITIVE37L. braziliensisRondônia, BrazilCLNEGATIVE38Leishmania spp.Rondônia, BrazilCLNEGATIVE39L. braziliensisRondônia, BrazilCLPOSITIVE40L. braziliensisRondônia, BrazilCLPOSITIVE41Leishmania spp.Rondônia, BrazilCLNEGATIVE42L. guyanensisRondônia, BrazilCLNEGATIVE43L. braziliensisRondônia, BrazilCLNEGATIVE43L. braziliensisRondônia, BrazilCLNEGATIVE	32	L. braziliensis	Rondônia, Brazil	CL	POSITIVE
34Leishmania spp.Rondônia, BrazilCLNEGATIVE35L. braziliensisRondônia, BrazilMCLPOSITIVE36L. braziliensisRondônia, BrazilMCLPOSITIVE37L. braziliensisRondônia, BrazilCLNEGATIVE38Leishmania spp.Rondônia, BrazilCLNEGATIVE39L. braziliensisRondônia, BrazilCLPOSITIVE40L. braziliensisRondônia, BrazilCLPOSITIVE41Leishmania spp.Rondônia, BrazilCLPOSITIVE42L. guyanensisRondônia, BrazilCLNEGATIVE43L. braziliensisRondônia, BrazilCLPOSITIVE43L. braziliensisRondônia, BrazilCLPOSITIVE	33	L. guyanensis	Rondônia, Brazil	MCL	NEGATIVE
35L. braziliensisRondônia, BrazilMCLPOSITIVE36L. braziliensisRondônia, BrazilMCLPOSITIVE37L. braziliensisRondônia, BrazilCLNEGATIVE38Leishmania spp.Rondônia, BrazilCLNEGATIVE39L. braziliensisRondônia, BrazilCLPOSITIVE40L. braziliensisRondônia, BrazilCLPOSITIVE41Leishmania spp.Rondônia, BrazilCLNEGATIVE42L. guyanensisRondônia, BrazilCLNEGATIVE43L. braziliensisRondônia, BrazilCLNEGATIVE43L. braziliensisRondônia, BrazilCLPOSITIVE	34	Leishmania spp.	Rondônia, Brazil	CL	NEGATIVE
36L. braziliensisRondônia, BrazilMCLPOSITIVE37L. braziliensisRondônia, BrazilCLNEGATIVE38Leishmania spp.Rondônia, BrazilCLNEGATIVE39L. braziliensisRondônia, BrazilCLPOSITIVE40L. braziliensisRondônia, BrazilCLPOSITIVE41Leishmania spp.Rondônia, BrazilCLNEGATIVE42L. guyanensisRondônia, BrazilCLNEGATIVE43L. braziliensisRondônia, BrazilCLNEGATIVE	35	L. braziliensis	Rondônia, Brazil	MCL	POSITIVE
37L. braziliensisRondônia, BrazilCLNEGATIVE38Leishmania spp.Rondônia, BrazilCLNEGATIVE39L. braziliensisRondônia, BrazilCLPOSITIVE40L. braziliensisRondônia, BrazilCLPOSITIVE41Leishmania spp.Rondônia, BrazilCLNEGATIVE42L. guyanensisRondônia, BrazilCLNEGATIVE43L. braziliensisRondônia, BrazilCLNEGATIVE	36	L. braziliensis	Rondônia, Brazil	MCL	POSITIVE
38 Leishmania spp. Rondônia, Brazil CL NEGATIVE 39 L. braziliensis Rondônia, Brazil CL POSITIVE 40 L. braziliensis Rondônia, Brazil CL POSITIVE 41 Leishmania spp. Rondônia, Brazil CL NEGATIVE 42 L. guyanensis Rondônia, Brazil CL NEGATIVE 43 L. braziliensis Rondônia, Brazil CL POSITIVE	37	L. braziliensis	Rondônia, Brazil	CL	NEGATIVE
39 L. braziliensis Rondônia, Brazil CL POSITIVE 40 L. braziliensis Rondônia, Brazil CL POSITIVE 41 Leishmania spp. Rondônia, Brazil CL NEGATIVE 42 L. guyanensis Rondônia, Brazil CL NEGATIVE 43 L. braziliensis Rondônia, Brazil CL POSITIVE	38	Leishmania spp.	Rondônia, Brazil	CL	NEGATIVE
40 L. braziliensis Rondônia, Brazil CL POSITIVE 41 Leishmania spp. Rondônia, Brazil CL NEGATIVE 42 L. guyanensis Rondônia, Brazil CL NEGATIVE 43 L. braziliensis Rondônia, Brazil CL POSITIVE	39	L. braziliensis	Rondônia, Brazil	CL	POSITIVE
41Leishmania spp.Rondônia, BrazilCLNEGATIVE42L. guyanensisRondônia, BrazilCLNEGATIVE43L. braziliensisRondônia, BrazilCLPOSITIVE	40	L. braziliensis	Rondônia, Brazil	CL	POSITIVE
42L. guyanensisRondônia, BrazilCLNEGATIVE43L. braziliensisRondônia, BrazilCLPOSITIVE	41	Leishmania spp.	Rondônia, Brazil	CL	NEGATIVE
43 <i>L. braziliensis</i> Rondônia, Brazil CL POSITIVE	42	L. guyanensis	Rondônia, Brazil	CL	NEGATIVE
	43	L. braziliensis	Rondônia, Brazil	CL	POSITIVE

Supplementary Table 1. Cervical brushes obtained from patients. The diagram shows the distribution of the samples tested in figure 1, according to the specie of the infecting parasite, place of Isolation, outcome of the disease (CL= Cutaneous Leishmaniasis; MCL = Mucocutaneous Leishmaniasis), and LRV status.

Supplem. Table 2 de Carvalho *et al.*

Collection Label	Specie	Place of Isolation	LRV Status
IOCL 3569 (299)	L. braziliensis	Rondônia, Brazil	POSITIVE
IOCL 3570 (303)	L. braziliensis	Rondônia, Brazil	POSITIVE
IOCL 3571 (304)	L. braziliensis	Rondônia, Brazil	POSITIVE
IOCL 3622 (476)	L. braziliensis	Rondônia, Brazil	POSITIVE
IOCL 3625 (313)	L. braziliensis	Rondônia, Brazil	POSITIVE
IOCL 3639 (390)	L. braziliensis	Rondônia, Brazil	POSITIVE
IOCL 3626 (314)	L. braziliensis	Rondônia, Brazil	NEGATIVE
IOCL 3642 (412)	L. braziliensis	Rondônia, Brazil	NEGATIVE
IOCL 3710 (666)	L. braziliensis	Rondônia, Brazil	POSITIVE
IOCL 3708 (667)	L. braziliensis	Rondônia, Brazil	NEGATIVE
IOCL 3714 (760)	L. braziliensis	Rondônia, Brazil	NEGATIVE
IOCL 3713 (767)	L. braziliensis	Rondônia, Brazil	NEGATIVE
IOCL 3711 (818)	L. braziliensis	Rondônia, Brazil	POSITIVE
IOCL 3712 (820)	L. braziliensis	Rondônia, Brazil	NEGATIVE
IOCL 3637 (384)	L. braziliensis	Rondônia, Brazil	POSITIVE
IOCL 3540 (268)	L. braziliensis	Rondônia, Brazil	POSITIVE
IOCL 3539 (271)	L. guyanensis	Rondônia, Brazil	POSITIVE
IOCL 3460 (391)	L. guyanensis	Rondônia, Brazil	NEGATIVE
IOCL 3546 (276)	L. braziliensis	Rondônia, Brazil	NEGATIVE
IOCL 3538 (251)	L. guyanensis	Rondônia, Brazil	NEGATIVE
IOCL 3549 (283)	L. braziliensis	Rondônia, Brazil	NEGATIVE
IOCL 3567 (291)	L. braziliensis	Rondônia, Brazil	POSITIVE
IOCL 3545 (275)	L. braziliensis	Rondônia, Brazil	POSITIVE

Supplementary Table 2. Clinical isolates obtained from patients. The diagram shows the distribution of the L.b. and L.g. parasites tested in figure 10, according to their International code, FIOCRUZ collection label and LRV status.