

TABLE S3: Comparative measurements of the present male *Spauligodon turpanoeremius* sp. nov., *S. turpanoscincus* sp. nov. and those species of *Spauligodon* described previously.

| Parameters species         | Host species                       | Site of infection | Body size                   | Cephalic end                    | Lateral alae | Esophagus length | Esophageal bulb size  | Location from anterior end |                | Caudal alae    | Caudal papillae                                                                | Spicule length              | Tail length                                                 | References                   |
|----------------------------|------------------------------------|-------------------|-----------------------------|---------------------------------|--------------|------------------|-----------------------|----------------------------|----------------|----------------|--------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------|------------------------------|
|                            |                                    |                   |                             |                                 |              |                  |                       | Nerve ring                 | Excretory pore |                |                                                                                |                             |                                                             |                              |
| <i>Spauligodon aloisei</i> | <i>Podarcis sicula</i>             | Large intestine   | 1318.0-1571.0 × 110.0-169.0 | —                               | Present      | 152.0-251.0      | — × 58.0-79.0         | 87.0-154.0                 | 268.0-443.0    | Narrow         | Mammiliiform                                                                   | Absent                      | 333.0-494.0 (Filiform, 1-4 spines)                          | Casanova et al. 2003         |
| <i>S. anolis</i>           | <i>Anolis cristatellus</i>         | Rectum            | 926.0 × 76.0                | —                               | Present      | 144.0            | 43.0 × 44.0           | —                          | 270.0          | —              | —                                                                              | Absent                      | — (Filiform, aspinose)                                      | Chitwood 1934                |
| <i>S. aspiculus</i>        | <i>Tarentola annularis</i>         | Small intestine   | 980.0-1961.0 × 124.0-186.0  | —                               | Present      | 231.0-353.0      | 52.0-79.0 × 54.0-87.0 | 68.0-98.0                  | 629.0-832.0    | Very slight    | Mammiliiform                                                                   | Absent                      | 143.0-292.0 (Filiform, aspinose)                            | Abdel-Ghaffar et al. 2020    |
| <i>S. atlanticus</i>       | <i>Gallotia atlantica</i>          | Intestine         | —                           | 6 equal labial plates           | Present      | —                | —                     | —                          | —              | Bursa          | 1: Small spherical<br>2: Slightly larger<br>3: Larger, Prominent, pedunculated | Absent                      | — (Filiform, aspinose)                                      | Jorge et al. 2013            |
| <i>S. auziensis</i>        | <i>Tarentola mauritanica</i>       | Rectum            | 1272.0-2650.0 × —           | 6 small lips, 6 small papillaes | Present      | —                | —                     | —                          | —              | Borad, hyaline | 1: Short stem<br>2: Thick bifurcate stalk<br>3: Short stem                     | — (Short, thin, curved end) | — (Filiform, smooth)                                        | Seurat 1917                  |
| <i>S. bintangensis</i>     | <i>Cyrtodactylus bintangrendah</i> | Large intestine   | 1250.0-1910.0 × 128.0-204.0 | —                               | Present      | 250.0-311.0      | 55.0-70.0 × 55.0-76.0 | 104.0-128.0                | 336.0-448.0    | Bursa          | Conspicuous, mamilliform                                                       | Absent                      | 383.0-459.0 (Filiform, aspinose)                            | Bursey et al. 2014           |
| <i>S. biydeensis</i>       | <i>Homopholis wahlbergii</i>       | Large intestine   | 2360.0 × 220.0              | Mouth opening hexagonal         | Present      | 260.0            | 70.0 × 80.0           | 60.0                       | 650.0          | Narrow         | Conspicuous, mamilliform, large                                                | Absent                      | 400.0 (4 spines)                                            | Hering-Hagenbeck et al. 2002 |
| <i>S. bonairensis</i>      | <i>Gonatodes antillensis</i>       | Large intestine   | 790.0-1170.0 × 140.0-204.0  | —                               | Present      | 205.0-238.0      | 43.0-55.0 × 46.0-58.0 | 61.0-87.0                  | 281.0-408.0    | Borad          | Mammiliiform                                                                   | Absent                      | 293.0-434.0 (Filiform, 2 large spines, 1 or 2 small spines) | Bursey and Goldberg 2012     |
| <i>S. californiensis</i>   | <i>Coleonyx variegatus</i>         | Large intestine   | 2590.0 × 188.0              | —                               | Present      | 397.0            | 49.0 × 59.0           | 39.0                       | 600.0          | Indistinct     | Mammiliiform, short stem                                                       | Absent                      | 310.0 (Filiform)                                            | Read and Amrein 1953         |

|                        |                                     |                        |                             |   |         |                       |                       |             |             |                |                                                                 |                                       |                                            |                            |
|------------------------|-------------------------------------|------------------------|-----------------------------|---|---------|-----------------------|-----------------------|-------------|-------------|----------------|-----------------------------------------------------------------|---------------------------------------|--------------------------------------------|----------------------------|
| <i>S. caxiuana</i>     | <i>Thecadactylus rapicauda</i>      | Large intestine        | 1250.0-1440.0 × 90.0-140.0  | — | Present | 190.0-230.0           | 30.0-50.0 × 30.0-60.0 | 40.0-120.0  | 290.0-470.0 | Well developed | Mammiliiform, short stem                                        | Absent                                | 80.0-230.0 (Filiform, 1-3 spines)          | Neves et al. 2025          |
| <i>S. caymanensis</i>  | <i>Anolis cristatellus</i>          | —                      | 720.0-980.0 × —             | — | Present | —                     | —                     | —           | —           | Borad          | Mammiliiform, pedunculated                                      | Absent                                | — (Filiform, 1-3 spines)                   | Bursey and Goldberg 1998   |
| <i>S. cubensis</i>     | <i>Tarentola americana</i>          | Large intestine        | 1760.0-2180.0 × —           | — | Present | 305.0-310.0           | — × 77.0-88.0         | 35.0        | 473.0-609.0 | Narrow         | 1: Mammiliiform<br>2: Pedunculated<br>3: Elongated              | Absent                                | 122.0-140.0 (Filiform, aspinose)           | Read and Amrein 1953       |
| <i>S. extenuatus</i>   | <i>Timon Lepidus</i>                | Small intestine caecum | 2400.0-2775.0 × 190.0-230.0 | — | Present | 265.0-325.0           | —                     | 130.0       | 660.0       | Narrow, Short  | 1: Large, sessile<br>2: Large conical tubercle<br>3: Short stem | 70.0 (Single, Short)                  | 420.0-480.0 (Filiform, aspinose)           | Seurat 1917                |
| <i>S. geckonis</i>     | <i>Ptychozoon kuhli</i>             | Large intestine        | 1560.0-1840.0 × 153.0-204.0 | — | Present | 455.0-512.0           | 61.0-73.0 × 52.0-67.0 | 55.0-67.0   | 536.0-663.0 | Bursa          | Mammiliiform                                                    | 76.0-92.0 (Single)                    | 204.0-281.0 (Filiform, aspinose)           | Bursey et al. 2016         |
| <i>S. gehyrae</i>      | <i>Gehyra oceanica</i>              | Large intestine        | 1300.0-2000.0 × 80.0-150.0  | — | Present | 107.0-213.0           | 48.0-60.0 × 43.0-57.0 | 66.0-91.0   | 268.0-587.0 | Narrow         | 1: Sessile<br>2: Larger<br>3: Pedunculate                       | 58.0-70.0 (Single)                    | 135.0-170.0 (Filiform, aspinose)           | Bursey and Goldberg 1996   |
| <i>S. giganticus</i>   | <i>Sceloporus graciosus</i>         | Large intestine        | 3020.0-3240.0 × 211.0-215.0 | — | Present | 314.0-360.0           | 66.0-73.0 × 53.0-69.0 | —           | 768.0-792.0 | Well developed | Mammiliiform                                                    | Absent                                | 382.0-399.0 (Filiform, 2 spines)           | Read and Amrein 1953       |
| <i>S. goldbergi</i>    | <i>Sonora semiannulata</i>          | Rectum                 | 1840.0-2470.0 × 91.0-114.0  | — | Present | 237.0-265.0           | 51.0-68.0 × 48.0-68.0 | 114.0-137.0 | 357.0-510.0 | Narrow         | 1: Sessile<br>2: Smaller<br>3: Pedunculate                      | 77.0-91.0 (Single, weakly sclerified) | 112.0-131.0 (Filiform, 3-7 spines)         | Bursey and Mcallister 1996 |
| <i>S. hemidactylus</i> | <i>Hemidactylus frenatus</i>        | Large intestine        | 1630.0-1950.0 × 260.0-310.0 | — | Present | 116.0-142.0           | 57.0-63.0 × 66.0-68.0 | 47.0-63.0   | 383.0-408.0 | Well developed | Mammiliiform, short stem                                        | Absent                                | 306.0-320.0 (Filiform, aspinose)           | Bursey and Goldberg 1996   |
| <i>S. laevicauda</i>   | <i>Hemidactylus bowringi</i> et al. | Rectum                 | 1850.0 × 300.0              | — | Present | 1/5 of length of body | —                     | —           | —           | Narrow         | 1: Long<br>2: Longer<br>3: Longer                               | 70.0 (Single, weekly chitinized)      | 1/6 of length of body (Filiform, aspinose) | Seurat 1914                |
| <i>S. lamothei</i>     | <i>Sceloporus minor</i>             | Stomach intestine      | 1750.0-2200.0 × 84.0-150.0  | — | Present | 169.0-268.0           | 65.0-78.0 × 56.0-84.0 | 85.0-110.0  | 370.0-530.0 | Bursa          | 1: Short stem<br>2: Pedunculated<br>3: Smaller                  | 55.0-96.0 (Single)                    | 380.0-565.0 (Filiform, 1-5 spines)         | Monks et al. 2008          |

|                          |                                                     |                 |                                |                                                                |         |             |                            |             |              |                   |                                                                                         |                                                                             |                                       |                                 |
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| <i>S. latasticola</i>    | <i>Latastia longicaudata</i>                        | Intestine       | 1350.0-1980.0 ×<br>134.0-153.0 | —                                                              | Present | 268.0-317.0 | 52.0-61.0 ×<br>52.0-64.0   | 107.0-128.0 | 383.0-536.0  | Borad             | Mammiliform                                                                             | 52.0-61.0<br>(Single, weakly<br>Sclerotized, sharply pointed<br>distal end) | 134.0-189.0<br>(Filiform, aspinose)   | Bursey and Goldberg<br>2011     |
| <i>S. loboi</i>          | <i>Liolaemus capillitas</i>                         | Large intestine | 1020.0-3360.0 ×<br>250.0-760.0 | —                                                              | Present | 210.0-310.0 | 60.0-110.0 ×<br>70.0-120.0 | 100.0-170.0 | 440.0-1030.0 | Bursa             | Mammiliform, sessile, small                                                             | Absent                                                                      | 340.0-600.0<br>(Filiform, 3-7 spines) | Ramallo et al. 2002             |
| <i>S. mearnsi</i>        | <i>Streptosaurus mearnsi</i>                        | Intestine       | 1440.0-1610.0 ×<br>130.0-160.0 | —                                                              | Present | 156.0-208.0 | 59.0-65.0 ×<br>65.0        | —           | 520.0-560.0  | Large, rounded    | 1: Pedunculate<br>2: Elongated<br>3: Short stem                                         | 75.0-80.0<br>(Single, distinctly<br>chitinized)                             | 195.0-1260.0<br>(Filiform, aspinose)  | Edgerly 1952                    |
| <i>S. molopoensis</i>    | <i>Pachydactylus capensis</i>                       | Large intestine | 1920.0-2040.0 ×<br>140.0-160.0 | Mouth opening<br>hexagonal                                     | Present | 190.0-200.0 | 50.0-60.0 ×<br>60.0-70.0   | 70.0-120.0  | 540.0-590.0  | Narrow            | Mammiliform, pedunculated                                                               | 60.0<br>(Single, weakly sclerotized)                                        | 170.0-240.0<br>(Filiform, 6-9 spines) | Hering-Hagenbeck et<br>al. 2002 |
| <i>S. nicolauensis</i>   | <i>Tarentola bocagei</i>                            | Intestine       | 936.6-1329.8 ×<br>36.7-46.8    | —                                                              | Present | 108.7-160.1 | 26.0-42.0 ×<br>26.0-37.8   | 63.4-125.2  | 212.0-452.5  | Very slight       | 1: Spherical pedunculated<br>2: Thick, large peduncles<br>3: Smaller                    | Absent                                                                      | 56.4-87.1<br>(Filiform, aspinose)     | Jorge et al. 2012               |
| <i>S. occidentalis</i>   | <i>Gallotia caesaris</i><br><i>Gallotia galloti</i> | Intestine       | —                              | 6 equal labial plates                                          | Present | —           | —                          | —           | —            | Bursa             | 1: Middle-sized spherical<br>pedunculated<br>2: Larger, elongated<br>3: Large prominent | Absent                                                                      | —<br>(Filiform, aspinose)             | Jorge et al. 2013               |
| <i>S. ovifilus</i>       | <i>Diplodactylus stenodactylus</i>                  | Large intestine | 1097.0-1352.0 ×<br>131.0-194.0 | —                                                              | Present | 125.0-182.0 | 43.0-60.0 ×<br>43.0-60.0   | 74.0-120.0  | 306.0-408.0  | Narrow            | Mammiliform, sessile, small                                                             | 51.0-63.0<br>(Single, weakly sclerotized)                                   | 257.0-331.0<br>(Filiform, aspinose)   | Bursey and Goldberg<br>1999     |
| <i>S. oxkutzcabensis</i> | <i>Thecadactylus rapicaudus</i>                     | Rectum          | 1910.0-2140.0 ×<br>200.0       | —                                                              | Present | 275.0-350.0 | —                          | —           | 275.0-350.0  | Broad             | Mammiliform, large                                                                      | Absent                                                                      | —<br>(Filiform, aspinose)             | Chitwood 1938                   |
| <i>S. papuensis</i>      | <i>Cyrtodactylus epiroticus</i>                     | Large intestine | 1340.0-1760.0 ×<br>89.0-128.0  | —                                                              | Present | 238.0-275.0 | 43.0-61.0 ×<br>37.0-55.0   | 92.0-122.0  | 434.0-510.0  | Bursa             | Mammiliform                                                                             | Absent                                                                      | 146.0-183.0<br>(Filiform, aspinose)   | Bursey et al. 2017              |
| <i>S. persiensis</i>     | <i>Cyrtopodion Scabrum</i>                          | Large intestine | 1080.0-2340.0 ×<br>63.0-204.0  | Mouth opening<br>hexagonal, 6 equal<br>triangular labial flaps | Present | 237.0-338.0 | 47.0-65.0 ×<br>40.0-61.0   | 96.0-140.0  | 330.0-606.0  | Well<br>developed | Conspicuous, mamilliform,<br>equal                                                      | 40-44<br>(Single)                                                           | 92.0-254.0<br>(Filiform, aspinose)    | Pazoki and Rahimian<br>2014     |
| <i>S. sharpiloi</i>      | <i>Eremias argus</i>                                | Large intestine | 1630.0-3900.0 ×                | Mouth opening                                                  | Present | 208.0-310.0 | 72.0-87.0 ×                | 92.0-174.0  | 391.0-620.0  | Bursa             | Large caudal papillae                                                                   | Absent                                                                      | 270.0-367.0                           | Gu et al. 2026                  |

| Species                  |                                    | Host            |                                 | Location                                                  |         | Size          |                             | Shape         |               | Color          |                              | Texture                                                                            |                                    | Remarks                           |            |
|--------------------------|------------------------------------|-----------------|---------------------------------|-----------------------------------------------------------|---------|---------------|-----------------------------|---------------|---------------|----------------|------------------------------|------------------------------------------------------------------------------------|------------------------------------|-----------------------------------|------------|
| <i>S. tarentolae</i>     | <i>Tarentola delalandii</i>        | —               | 150.0-250.0                     | hexagonal, 6 trapezoidal labial flaps                     | Present | 200.0         | 54.0 × 42.0                 | 62.5          | 290.0         | Borad          | 1: Small, rounded            | Absent                                                                             | 90.0 (Filiform, smooth)            | Spaul 1926                        |            |
|                          |                                    |                 | 1100.0 × 60.0                   | —                                                         |         |               |                             |               |               |                | 2: Large finger-shaped       |                                                                                    |                                    |                                   | 3: Smaller |
| <i>S. tectipenis</i>     | <i>Gray lizard</i>                 | Intestine       | 1400.0-1600.0 × 135.0-200.0     | —                                                         | Present | 350.0-400.0   | —                           | —             | 400.0-450.0   | Bursa          | Mammiliform, pedunculated    | Absent                                                                             | 200.0-270.0 (Filiform, spiny)      | Gedoelst 1919                     |            |
| <i>S. timbavatiensis</i> | <i>Pachydactylus turneri</i>       | Large intestine | 1740.0-2050.0 × 120.0-140.0     | Mouth opening hexagonal, 6 equal triangular labial flaps  | Present | 260.0-350.0   | 70.0-80.0 × 70.0-80.0       | 120.0-150.0   | 560.0-650.0   | Borad          | 1: Pedunculated              | 80.0 (Single, weakly sclerotized)                                                  | 170.0-240.0 (Filiform, aspinose)   | Hering-Hagenbeck and Boomker 1998 |            |
|                          |                                    |                 |                                 |                                                           |         |               |                             |               |               | 2: Smaller     | 3: Conspicuou, pedunculated  |                                                                                    |                                    |                                   |            |
| <i>S. vietnamensis</i>   | <i>Gekko ulikovskii</i>            | Large intestine | 1290.0-1638.0 × 128.0-179.0     | —                                                         | Present | 220.0-262.0   | 52.0-61.0 × 52.0-67.0       | 110.0-128.0   | 446.0-587.0   | Narrow         | 1: Conspicuous, pedunculate  | Absent                                                                             | 100.0-122.0 (Filiform, aspinose)   | Binh et al. 2007                  |            |
|                          |                                    |                 |                                 |                                                           |         |               |                             |               |               | 2: Smaller     | 3: Short stem                |                                                                                    |                                    |                                   |            |
| <i>S. xenosauri</i>      | <i>Xenosaurus platyceps</i>        | Large intestine | 1180.0-1470.0 × 179.0-217.0     | —                                                         | Present | 214.0-256.0   | 61.0-73.0 × 61.0-79.0       | 98.0-122.0    | 357.0-510.0   | Narrow         | Mammiliform                  | 34.0-40.0 (Single, poorly sclerotized, sharply pointed distal end)                 | 306.0-357.0 (Filiform, 2-4 spines) | Bursey et al. 2007                |            |
| <i>S. zweifeli</i>       | <i>Lepidodactylus novaeguineae</i> | Large intestine | 1020.0-1350.0 × 107.0-146.0     | —                                                         | Present | 119.0-122.0   | 37.0-49.0 × 40.0-49.0       | 61.0-73.0     | 256.0-354.0   | Narrow         | Mammiliform, sessile, small  | 43.0-52.0 (Single, weakly Sclerotized, sharply pointed distal end)                 | 244.0-293.0 (Filiform, 3-5 spines) | Bursey et al. 2005                |            |
| <i>S. turpanoeremius</i> | <i>Eremias roborowskii</i>         | Intestine       | 1892.71-2908.41 × 174.97-389.67 | Mouth opening rounded, 6 irregular labial flaps           | Present | 242.98-341.66 | 74.15-118.02 × 67.02-108.83 | 101.61-117.40 | 479.92-782.58 | Bursa          | 1: Short stem                | 60.16-94.67 (Single, sabre-shaped, proximally robust and distally pointed)         | 198.58-316.82 (Filiform, aspinose) | Present study                     |            |
|                          |                                    |                 |                                 |                                                           |         |               |                             |               |               | 2: Smaller     | 3: Pedunculated              |                                                                                    |                                    |                                   |            |
| <i>S. turpanoscincus</i> | <i>Teratoscincus roborowskii</i>   | Intestine       | 1035.68-1738.97 × 54.70-150.23  | Mouth opening hexagonal, 6 equal trapezoidal labial flaps | Present | 129.93-210.39 | 36.01-59.53 × 38.22-59.32   | 42.68-66.96   | 224.13-394.07 | Well developed | 1: Short stem                | 48.30 - 56.05 (Single, dart-shaped, pointed at both ends, thickened in the middle) | 152.83-276.96 (Filiform, aspinose) | Present study                     |            |
|                          |                                    |                 |                                 |                                                           |         |               |                             |               |               | 2: Larger      | 3: Conspicuous, pedunculated |                                                                                    |                                    |                                   |            |

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