Supplementary Figures and Tables

Insights into the karyotype and genome evolution of haplogyne spiders indicate a polyploid origin of lineage with holokinetic chromosomes

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Supplementary Figure 1. Phylogeny of spiders and related arachnid orders. A compilation of hypotheses from two published studies^{19,56}.



Supplementary Figure 2. Mitosis and meiosis in holokinetic haplogyne spiders of the families Oonopidae and Dysderidae. Preparations were stained with Giemsa except **b** and **c** stained with DAPI. Unless otherwise specified, based on male preparations. Abbreviations and symbols: * (bivalent with two chiasmata), N (interkinesis nucleus), X (X chromosome). (a) Oonops ebenecus, Oonopidae (2n = 7, X0), diplotene consisting of three bivalents and an X chromosome, which is positively heteropycnotic; (**b**, **c**) *O*. *pulcher*. (**b**) Mitotic metaphase (2n = 7, X0), X chromosome is slightly longer than the other chromosomes; (c) Diplotene, note three bivalents and the positively heteropycnotic X chromosome; (d) Ischnothyreus sp., Oonopidae, late metaphase I (2n = 7, X0) after disintegration of chiasmata, consisting of three bivalents and a positively heteropycnotic X chromosome; (e, f) Kaemis sp., Dysderidae (Rhodinae). (e) Diakinesis (2n = 7, X0) consisting of three bivalents and an X chromosome exhibiting a low condensation; (f) two sister metaphases II, n = 4 (left) and n = 3 (right), separated by a dashed line. The X chromosome differs from the other chromosomes by tighter attachment of the chromatids and slightly positive heteropycnosis; (g) Dasumia crassitibialis, Dysderidae (Harpacteinae), spermatogonial metaphase (2n = 7, X0). The X chromosome exhibits a slightly precocious separation of the chromatids; (h) Harpactea hentschi, Dysderidae (Harpacteinae), female, oogonial metaphase (2n = 8); (i) H. hombergi, metaphase I (2n = 7, X0). Note three bivalents and an X chromosome univalent; (j) *H. lepida*, metaphase I (2n = 25, X0) consisting of 12 bivalents and a large X chromosome, which is positively heteropycnotic; (k) H. rubicunda, metaphase II plate (n = 4) and adjacent interkinesis nucleus containing a positively heteropycnotic X chromosome on the periphery. The X chromosome of the metaphase II plate is formed by a single chromatid only as a result of inverted meiosis of the sex chromosome; (1) Dysderocrates sp.n., Dysderidae (Dysderinae), spermatogonial metaphase (2n = 9, X0); the sex chromosome is considerably longer than the other chromosomes.



Supplementary Figure 3. Mitotic chromosomes of Caponiidae (Nopinae), females. Red dotted lines indicate chromosome contacts, green dotted lines overlapping of chromosomes. (**a**) *Nopsides ceralbonus*, oogonial mitosis (2n = 64). Below the same mitosis with indicated chromosome contacts and overlaps; (**b**) *Nops* sp., oogonial mitosis (2n = 60-62). Below the same mitosis with indicated chromosome contacts and overlaps.



Supplementary Figure 4. Female karyotype of *Caponia capensis* (Caponiidae), based on mitotic metaphase (2n = 136). The karyotype consists of 14 metacentric (nos 1-3, 5, 8-10, 13, 24, 45, 53, 55, 63, 68), 12 submetacentric (nos 4, 7, 12, 17, 18, 20, 21, 23, 28, 31, 46, 60), 16 subtelocentric (nos. 6, 11, 14-16, 19, 22, 25, 27, 30, 35-37, 41, 47, 51), and 26 acrocentric pairs (nos. 26, 29, 32-34, 38-40, 42-44, 48-50, 52, 54, 56-59, 61, 62, 64-67). The karyotype of this specimen also contains two tiny uneven chromosome fragments (F).

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Supplementary Figure 5. Chromosomes of monocentric haplogyne spiders used for the analysis of genome size. Unless otherwise specified, based on male preparations. Abbreviations: P (precocious separation of homologous chromosomes of a bivalent), S (sex chromosome trivalent), X (sex chromosome X), Y (sex chromosome Y), S (sex chromosome trivalent). (a) Sahastata nigra, Filistatidae, female, oogonial metaphase (2n = 28); (b) Andorahano ansieae, Filistatidae $(2n = 25, X_1X_2Y)$, spermatogonial metaphase containing a tiny Y chromosome. Inset: sex chromosome trivalent in metaphase I. Two large X chromosomes pair achiasmatically by their ends with a Y microchromosome (see schematic drawing); (c, d) *Paculla* sp., Pacullidae $(2n = 33, X_1X_2Y)$. (c) Spermatogonial metaphase without any microchromosome, which implies a relatively large size of the Y chromosome; (d) Metaphase I comprising 15 bivalents and a sex chromosome trivalent formed by two X chromosomes and a Y chromosome. In contrast to the previous species, the sex chromosome trivalent is highly condensed. Schematic drawing shows supposed pairing of sex chromosomes in the trivalent; (e) *Scytodes* sp. 1, spermatogonial metaphase (2n = 19, X0) containing a large metacentric X chromosome.



Supplementary Table 1. Collection data of specimens used.

| Taxon | Locality | GPS | | |
|-----------------------------------|---|---------------------------|--|--|
| Taxa with holokinetic chromosomes | | | | |
| Dysderidae (Dysderinae) | | | | |
| Dysdera erythrina | Břežanské údolí valley, Prague-Zbraslav, Czech Republic | 49°58'06.3"N 14°24'17.0"E | | |
| Dysderocrates storkani | Ivine Vodice, Velebit Mts., Croatia | 44°20'11.6"N 15°32'11.8"E | | |
| Dysderocrates sp. | forest along the road from Pentalofos to Eptachori, Macedonia, Greece | 40°12'42.4"N 21°03'48.3"E | | |
| Harpactocrates sp. | breeding (Spain) | - | | |
| Dysderidae (Harpacteinae) | | | | |
| Dasumia crassitibialis | Nahal Kziv valley, Upper Galilee, Israel | 33°02'29.4"N 35°10'54.4"E | | |
| Harpactea cecconii | Agios Georgios near Akamas peninsula, Cyprus | 34°54'29.5"N 32°19'59.5"E | | |
| H. hentschi | gorge along the road from Olympiada to Kryovrysi, Olympos Mts., Thessaly, Greece | 39°59'32.6"N 22°17'11.7"E | | |
| H. hombergi | Břežanské údolí valley, Prague-Zbraslav, Czech | 49°58'06.3"N 14°24'17.0"E | | |
| H. lepida | Republic Kamenné, Trojačka Mt., Beskydy Mts., Czech Republic | 49°30'20.5"N 18°00'20.2"E | | |
| H. rubicunda | Břežanské údolí valley, Prague-Zbraslav, Czech Republic | 49°58'06.3"N 14°24'17.0"E | | |
| Dysderidae (Rhodinae) | | | | |
| <i>Kaemis</i> sp. | Camping Can Cervera near Montseny town, Montseny Mts., Spain | 41°46'12.5"N 2°24'15.1"E | | |
| Oonopidae | | | | |
| Gamasomorpha lutzi | Luquillo, Puerto Rico, USA | 18°19'23.0"N 65°44'18.7"W | | |
| Ischnothyreus sp. | Luquillo, Puerto Rico, USA | 18°19'23.0"N 65°44'18.7"W | | |
| Oonops ebenecus | Luquillo, Puerto Rico, USA | 18°19'23.0"N 65°44'18.7"W | | |
| O. pulcher | Antwerpen, Belgium | 51°11'59.9"N 4°28'05.1"E | | |
| | Turnhout, Belgium | 51°19'02.6"N 4°56'54.6"E | | |
| Orsolobidae | | | | |
| Afrilobus sp. | <i>Eucalyptus</i> , 15 km ENE of Louwsberg on R69 road, KwaZulu-Natal, Republic of South Africa | 31°08'01.0"S 25°38'06.0"E | | |
| Azanialobus sp. | Hogsback, Eastern Cape, Republic of South Africa | 32°36'12.9"S 26°56'20.3"E | | |
| Segestriidae | | | | |
| Ariadna sp. | near Okahandja (on B1 road), Namibia | 22°05'38.6"S 16°57'10.0"E | | |

| Segestria bavarica | cliffs, Šárka valley, Prague, Czech Republic | 50°05'43.2"N 14°19'15.1"E |
|---|--|----------------------------|
| S. senoculata | road from Hodslavice to Valašské Meziříčí (forest between the road and Hostašovice railway station), Czech Republic | 49°31'14.8"N 18°00'51.0"E |
| Taxa with monokinetic chromosomes | | |
| Caponiidae (Caponiinae) | | |
| Caponia capensis | Benfontein Nature Reserve, Free State, Republic of South Africa | 28°49'11.6"S 24°50'10.6"E |
| | De Hoop Nature Reserve, Western Cape, Republic of South Africa | 34°27'12.2"S 20°24'15.7"E |
| C. hastifera | Erfenis Dam Nature Reserve, Free State, Republic of South Africa | 28°30'27.8"S 26°48'24.3"E |
| | Hopefield farm, Bloemfontein district, Free State, Republic of South Africa | 28°51'47.5"S 26°09'45.0"E |
| C. natalensis | Ndumo Game Reserve, KwaZulu-Natal, Republic of South Africa | 26°54'23.9"S 32°19'11.1"E |
| Caponiidae (Nopinae) | | |
| Nops aff. variabilis | Neiva, Colombia | 2°55'05.8"N 75°17'45.0"W |
| Nops sp. | coffee-banana plantation with montane rainforest remains, Villa Las Neblinas, Constanza, Cordillera Central, La Vega Province, Dominican Republic | 19°00'22.7"N 70°32'18.6"W |
| Nopsides ceralbonus | San Dionisio canyon, Sierra de la Laguna Mts., Baja California Sur State, Mexico | 23°32'56.5"N 109°49'49.7"W |
| Tarsonops sp. | along river, La Purísima, Baja California Sur State, Mexico | 26°11'16.7"N 112°06'23.4"W |
| Diguetidae | | |
| Diguetia albolineata | breeding stock, Spiderpharm Ltd., Yarnell, AZ, USA | |
| Filistatidae (Filistatinae) | | |
| Filistata insidiatrix | acropolis of Rhodes town, Rhodes, Greece | 36°26'23.0"N 28°12'41.0"E |
| Kukulcania aff. hibernalis | La Purísima, Baja California Sur State, Mexico | 26°11'16.7"N 112°06'23.4"W |
| Sahastata nigra | Jahel, Arava valley, Israel | 30°04'53.3"N 35°07'55.6"E |
| Filistatidae (Prithinae) | | |
| Andoharano ansieae | Sachsenheim Guest Farm, westward from Etosha, Namibia | 18°44'53.5"S 17°15'22.9"E |
| Pacullidae <i>Paculla</i> sp. | Kuala Belalong Field Studies Centre, Temburong National Park, Brunei | 4°32'38.9"N 115°09'40.5"E |
| Pholcidae | | |
| Pholcus phalangioides | Prague, Czech Republic | 50°04'17.8"N 14°25'26.2"E |

| Scytodidae | | |
|----------------------|---|---------------------------|
| Scytodes sp. 1 | Adullam Nature Reserve, Nehusha, Israel | 31°37'49.6"N 34°57'03.0"E |
| Scytodes sp. 2 | Essaouira, Morocco | 31°31'42.1"N 9°44'28.9"W |
| Sicariidae | | |
| Hexophthalma sp. | approx. 20 km NE from Hentiesbaai (on B2 road), Namibia | 21°56'14.5"S 14°24'28.7"E |
| Loxosceles rufescens | Midreshet Ben-Gurion, Israel | 30°50'59.3"N 34°47'11.7"E |

Supplementary Table 2. Caponiidae, karyotype data of *Caponia capensis* and *Tarsonops* sp. Abbreviations: a - acrocentric chromosomes (light blue background), CI - centromeric index, m - metacentric chromosomes (brown background), morphology - chromosome morphology, n - number of plates evaluated, pair - number of pair, RCL - relative chromosome length, SD - standard deviation, sm - submetacentric chromosomes (reddish background), st - subtelocentric chromosomes (dark blue background).

| | Caponia capensis (n = 2) | | | | | | Tarsonops sp. $(n = 1)$ | | | | |
|------|--------------------------|-----------------|------------|------|-----------------|-----------------|-------------------------|------|------|------|------------|
| Pair | CI±SD | RCL±SD | Morphology | Pair | CI±SD | RCL±SD | Morphology | Pair | CI | RCL | Morphology |
| 1 | 1.27±0.45 | 3.81±0.20 | m | 40 | 9.76±0.36 | 1.08±0.25 | а | 1 | 1.10 | 3.31 | m |
| 2 | 1.34±0.32 | 3.49±0.53 | m | 41 | 3.68±0.34 | 1.05±0.38 | st | 2 | 1.23 | 3.06 | m |
| 3 | 1.14±0.28 | 3.21±0.36 | m | 42 | 9.68±0.25 | 1.01±0.26 | а | 3 | 1.39 | 2.91 | m |
| 4 | 2.36±0.19 | 3.04±0.25 | sm | 43 | 8.71±0.42 | 1.02±0.33 | а | 4 | 1.27 | 2.90 | m |
| 5 | 1.41±0.37 | 2.86±0.29 | m | 44 | 8.10±0.31 | 1.02 ± 0.22 | а | 5 | 1.32 | 2.83 | m |
| 6 | 3.51±0.24 | 2.84±0.38 | st | 45 | 1.43±0.19 | 0.96 ± 0.30 | m | 6 | 2.13 | 2.42 | sm |
| 7 | 2.04±0.54 | 2.77±0.53 | sm | 46 | 2.65±0.28 | 0.98±0.19 | sm | 7 | 3.49 | 2.30 | st |
| 8 | 1.37 ± 0.40 | 2.76 ± 0.27 | m | 47 | 3.47 ± 0.46 | 0,94±0.57 | st | 8 | 1.07 | 2.27 | m |
| 9 | 1.62±0.33 | 2.73±0.45 | m | 48 | 8.60±0.35 | 0.93±0.41 | a | 9 | 1.37 | 2.22 | m |
| 10 | 1.35±0.10 | 2.56 ± 0.63 | m | 49 | 8.19±0.16 | 0.93±0.52 | a | 10 | 1.25 | 1.96 | m |
| 11 | 3.53±0.63 | 2.37 ± 0.47 | st | 50 | 9.06±0.44 | 0.91 ± 0.27 | а | 11 | 1.09 | 1.70 | m |
| 12 | 1.85±0.22 | 2.35 ± 0.34 | sm | 51 | 3.57 ± 0.20 | 0.89±0.12 | st | 12 | 1.15 | 1.66 | m |
| 13 | 1.41 ± 0.41 | 2.21±0.41 | m | 52 | 9.89±0.52 | 0.86 ± 0.44 | а | 13 | 1.27 | 1.59 | m |
| 14 | 3.22±0.63 | $2.20{\pm}0.28$ | st | 53 | 1.35 ± 0.36 | $0.82{\pm}0.64$ | m | 14 | 2.18 | 1.51 | sm |
| 15 | 3.32±0.67 | 2.04 ± 0.35 | st | 54 | 9.10±0.12 | 0.82 ± 0.37 | а | 15 | 2.70 | 1.47 | sm |
| 16 | 3.30±0.54 | $2.00{\pm}0.18$ | st | 55 | 1.25 ± 0.27 | 0.78 ± 0.28 | m | 16 | 2.90 | 1.46 | sm |
| 17 | 2.59±0.38 | 1.99±0.22 | sm | 56 | 8.78 ± 0.42 | 0.78 ± 0.44 | а | 17 | 3.15 | 1.40 | st |
| 18 | 1.97±0.21 | $1.89{\pm}0.32$ | sm | 57 | 9.60 ± 0.49 | 0.76 ± 0.36 | а | 18 | 2.11 | 1.36 | sm |
| 19 | 4.59±0.37 | 1.83 ± 0.27 | st | 58 | 8.18±0.33 | 0.75 ± 0.27 | а | 19 | 1.46 | 1.31 | m |
| 20 | 2.41±0.24 | 1.75±0.34 | sm | 59 | 8.36±0.26 | 0.73±0.35 | а | 20 | 1.13 | 1.27 | m |
| 21 | 2.34±0.19 | 1.64±0.53 | sm | 60 | 2.64±0.45 | 0.67 ± 0.42 | sm | 21 | 1.57 | 1.25 | m |
| 22 | 3.49±0.30 | 1.60±0.39 | st | 61 | 9.82±0.39 | 0.66±0.19 | а | 22 | 1.26 | 1.19 | m |
| 23 | 2.61±0.27 | 1.58±0.24 | sm | 62 | 8.60±0.18 | 0.64±0.26 | а | 23 | 5.43 | 1.04 | st |
| 24 | 1.42 ± 0.34 | 1.53±0.31 | m | 63 | 1.26±0.50 | 0.63±0.35 | m | 24 | 1.28 | 0.94 | m |
| 25 | 3.38±0.43 | 1.51±0.16 | st | 64 | 9.30±0.42 | 0.60 ± 0.40 | а | 25 | 1.22 | 0.89 | m |
| 26 | 8.36±0.27 | 1.47 ± 0.44 | a | 65 | 8.16±0.21 | 0.58±0.31 | a | 26 | 2.25 | 0.85 | sm |
| 27 | 4.19±0.11 | 1.47±0.37 | st | 66 | 8.87±0.36 | 0.47 ± 0.28 | a | 27 | 2.54 | 0.84 | sm |
| 28 | 2.33±0.39 | 1.46±0.22 | sm | 67 | 9.63±0.48 | 0.43±0.39 | а | 28 | 4.95 | 0.81 | st |
| 29 | 9.10±0.21 | 1.40 ± 0.30 | a | 68 | 1.12±0.19 | 0.37 ± 0.22 | m | 29 | 2.54 | 0.66 | sm |
| 30 | 3.40±0.44 | 1.36±0.41 | st | | | | | 30 | 3.25 | 0.64 | st |
| 31 | 2.10±0.40 | 1.29±0.26 | sm | | | | | | | | |
| 32 | 8.57±0.35 | 1.27±0.29 | a | | | | | | | | |
| 33 | 8.63±0.52 | 1.25±0.44 | a | | | | | | | | |
| 34 | 9.32±0-37 | 1.23±0.58 | a | | | | | | | | |
| 35 | 3.64±0.54 | 1.21±0.15 | st | | | | | | | | |
| 36 | 3.78±0.28 | 1.19±0.22 | st | | | | | | | | |
| 37 | 3.55±0.33 | 1.15±0.42 | st | | | | | | | | |
| 38 | 8.78±0.47 | 1.15±0.39 | а | | | | | | | | |
| 39 | 8.63±0.39 | 1.09 ± 0.17 | a | | | | | | | | |

Supplementary Table 3. Summary of karyotype and genome data used for the preparation of Figure 4. Abbreviations: structure - chromosome structure (H - holokinetic; M - monocentric), 2C - DNA content of diploid chromosome complements in Mbp, 2C/2n - average chromosome size (i.e., genome size/chromosome number, Mbp/chromatid), GC - GC proportion (%).

| Species | Morphology | Clade | Clade number | 2n | 2C | GC | 2C/2n |
|----------------------------|------------|--|-----------------|--------------|---------|--------|---------|
| Filistata insidiatrix | M | Filistatidae | 1 | 34♀ | 8521.09 | 36.342 | 250.62 |
| Kukulcania aff. hibernalis | М | Filistatidae | 1 | 26 ₽ | 10259.4 | 32.257 | 394.591 |
| Sahastata nigra | М | Filistatidae | 1 | 28 ♀ | 11849.2 | 33.679 | 423.186 |
| Andorahano ansieae | М | Filistatidae | 1 | 24♀ | 5111.78 | 35.899 | 212.991 |
| Hexopthalma sp. | М | Scytodidae + Sicariidae | 2 | 20 ♀ | 2587.14 | 36.096 | 129.357 |
| Loxosceles rufescens | М | Scytodidae + Sicariidae | 2 | 22♀ | 10182.8 | 39.807 | 462.854 |
| Scytodes sp. 1 | М | Scytodidae + Sicariidae | 2 | 20 ♀ | 4551.01 | 42.579 | 227.55 |
| Scytodes sp. 2 | М | Scytodidae + Sicariidae | 2 | | 3057.96 | 39.826 | |
| Diguetia albolineata | М | Diguetidae + Pacullidae | 3 | 20 ♀ | 2954.35 | 43.542 | 147.717 |
| Paculla sp. | М | Pholeidae Diguetidae Pholeidae | 3 | 34♀ | 7658.65 | 40.583 | 225.255 |
| Pholcus phalangioides | М | Pholeidae Diguetidae Pholeidae | 3 | 26 ♀ | 1754.41 | 34.555 | 67.4774 |
| Caponia natalensis | М | Caponiidae | 4 | 158 ♀ | | | |
| Caponia capensis | М | Caponiidae | 4 | 136♀ | 38927.5 | | 286.232 |
| Caponia hastifera | М | Caponiidae | 4 | 136♀ | 47428.6 | 43.183 | 348.739 |
| Nops aff. variabilis | М | Caponiidae | 4 | 55♂ | 31121.4 | 42.246 | 565.844 |
| Nops sp. | М | Caponiidae | 4 | 6 2♀ | 32830 | 43.525 | 529.517 |
| Nopsides ceralbonus | М | Caponiidae | 4 | 6 4♀ | | | |
| Tarsonops sp. | М | Caponiidae | 4 | 60 ♀ | | | |
| Ariadna sp. | Н | Segestriidae | 5 | 8 ₽ | 16890.7 | 39.351 | 2111.33 |
| Segestria bavarica | Н | Segestriidae | 5 | 16 ₽ | 6251.37 | 38.488 | 390.711 |
| Segestria senoculata | Н | Segestriidae | 5 | 16 ₽ | 8043.74 | 38.94 | 502.734 |
| Gamasomorpha lutzi | Н | Oonopidae | 6 | 8 ♀ | | | |
| Ischnothyreus sp. | Н | Oonopidae | 6 | 8 ♀ | | | |
| Oonops ebenecus | Н | Oonopidae | 6 | 8♀ | | | |
| Oonops pulcher | Н | Oonopidae | 6 | 8♀ | 6920.37 | 36.693 | 865.046 |
| Afrilobus sp. | Н | Orsolobidae | 7 | 60 | | | |

| | | | Clade | | | | |
|------------------------|------------|--------------|--------|-------------|---------|--------|---------|
| Species | Morphology | Clade | number | 2n | 2C | GC | 2C/2n |
| Azanialobus sp. | Н | Orsolobidae | 7 | | 3581.92 | | |
| Dasumia crassitibialis | Н | Harpacteinae | 8 | 8♀ | 5824.28 | 37.088 | 728.036 |
| Harpactea cecconii | Н | Harpacteinae | 8 | 8♀ | | | |
| Harpactea hentschi | Н | Harpacteinae | 8 | 8♀ | 9567 | 39.335 | 1195.87 |
| Harpactea hombergi | Н | Harpacteinae | 8 | 8♀ | | | |
| Harpactea lepida | Н | Harpacteinae | 8 | 26♀ | 8223.23 | 39.106 | 316.278 |
| Harpactea rubicunda | Н | Harpacteinae | 8 | 8♀ | 6243.5 | 39.369 | 780.438 |
| Dysdera erythrina | Н | Dysderinae | 9 | 20 ♀ | 7644.37 | 39.25 | 382.218 |
| Dysderocrates storkani | Н | Dysderinae | 9 | 22♀ | | | |
| Dysderocrates sp. | Н | Dysderinae | 9 | 10 ♀ | 3137.16 | 36.458 | 313.716 |
| Harpactocrates sp. | Н | Dysderinae | 9 | 10 ♀ | | | |