

## Assoc. Prof. Matjaž Kuntner (PhD Biology)

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**Google Scholar:** <https://scholar.google.si/citations?user=iisP7MkAAAAJ&hl=en&oi=ao>  
**Research Gate:** [https://www.researchgate.net/profile/Matjaz\\_Kuntner](https://www.researchgate.net/profile/Matjaz_Kuntner)  
**Publons:** <https://publons.com/author/315784/matjaz-kuntner#profile>

### Education

Ph.D. (2005 Biology)	George Washington University, USA
Additional graduate courses (1999-2004)	University of Maryland, USA; University of Costa Rica
B. S. (1998 Biology)	University of Ljubljana, Slovenia
Additional undergraduate courses (1994)	University of North Carolina at Chapel Hill, USA

### Appointments & Titles

- 2018 (March)-2020 (December): Director, National Institute of Biology, Ljubljana, Slovenia
- 2017-2022: Associate Professor, University of Ljubljana, Slovenia
- 2017-2022: Visiting Professor, College of Life Sciences, Hubei University, Wuhan, China
- 2017-present: Research Counselor, National Institute of Biology, Ljubljana, Slovenia
- 2016-2017: Fulbright visiting scholar, Smithsonian Institution, Washington, DC, USA
- 2015-present: Research Counselor, ZRC SAZU, Ljubljana, Slovenia
- 2008-2017: Biological Institute Chair, ZRC SAZU, Ljubljana, Slovenia
- 2013-present: Governing Board member, Postgraduate School ZRC SAZU, Ljubljana, Slovenia
- 2011-2015: Governing Board member, University of Nova Gorica, Slovenia
- 2011-2014: Adjunct Professor, College of Life Sciences, Hubei University, Wuhan, China
- 2012-2017: Assistant Professor, University of Ljubljana, Slovenia
- 2007-present: Research Associate, Smithsonian Institution, Washington, DC, USA
- 2006-2008: Marie Curie Fellow, ZRC SAZU, Ljubljana, Slovenia
- 2005-2007: Research Collaborator, Smithsonian Institution, Washington, DC, USA
- 1999-2005: Pre-doctoral Fellow, Smithsonian Institution, Washington, DC, USA
- 1999-2001: Assistant Researcher, ZRC SAZU, Ljubljana, Slovenia

### Grants (contributed to raising ~ 27.4 Million €)

- 2020-2023 As institute director, acquired and signed a grant to build the *Biotechnological Hub of the National Institute of Biology combined from the European Regional Development Fund and by the Ministry of Education, Science and Sport of the Republic of Slovenia* (€20.8 Million)
- 2019-2022 collaborator (PI M. Gregorič): ARRS-Slovenian Research Agency (J1-1703) "Towards working protocols for the use of eDNA from spider webs" (€300,000)
- 2019-2021 PI: ARRS-Slovenian Research Agency bilateral grant Slovenia-USA BI-US/19-21-038): "Reviewing the evolution of female biased, extreme sexual size dimorphism" (3,000€)
- 2018-2021 PI: ARRS-Slovenian Research Agency (J1-9163) "Evolutionary dead ends: The perils of extreme phenotypes" (€300,000)
- 2018-2019 PI: ARRS-Slovenian Research Agency P1-0236 basic research program "Biodiversity: Patterns, processes, predictions, and conservation" (4.16 FTE, ca. 1,450,000€)
- 2018-2020 PI: ARRS-Slovenian Research Agency bilateral grant Slovenia-China (BI-CN/18-20-022): "Biogeography of primitively segmented spiders: integrating taxonomic and phylogenomic research" (ca. 10,000€)
- 2017-2021 collaborator (PIs T. Blackledge, J. Garb, I. Agnarsson): NSF-National Science Foundation USA (IOS-1656460) "Collaborative Research: Comparative analyses of structural designs underlying functional performance of the toughest spider silk" (\$903,385)
- 2017-2020 collaborator (PI M. Virant-Doberlet): ARRS-Slovenian Research Agency "Vibrational communication networks: from insects to plants" (€300,000)
- 2017-2018 PI: ARRS-Slovenian Research Agency bilateral grant Slovenia-USA (BI-U3117-18-011): "Phylogenomic, biogeographic, and evolutionary research trends in arachnology" (3,225€)
- 2015-2016 PI: ARRS-Slovenian Research Agency bilateral grant Slovenia-USA (BI-US/15-16) "Biology of spiders in the phylogenomic era" (3,500€)
- 2014-2018 PI: ARRS-Slovenian Research Agency "Young Researcher" graduate student funding (1 FTE, ca. 100,000€)

- 2014-2017 PI: ARRS-Slovenian Research Agency (J1-6729) "Integrative research of sexual dimorphism evolution" (€300,000)
- 2014-2015 collaborator (PI G. Aljančič): Norway Grants "With Proteus we share dependence on ground water" (20,000€)
- 2013-2017 PI: ARRS-Slovenian Research Agency P1-0236 basic research program "Biodiversity: Patterns, processes, predictions, and conservation" (4.1 FTE, ca. 1,155,000€)
- 2013-2017 PI: ARRS-Slovenian Research Agency "Young Researcher" graduate student funding (1 FTE, ca. 100,000€)
- 2013-2014 collaborator (PI G. Aljančič): Critical Ecosystem Partnership Fund / BirdLife International & DOPPS "A survey of the distribution of *Proteus anguinus* by environmental DNA sampling" (38,000€)
- 2013-2014 PI: ARRS-Slovenian Research Agency bilateral grant Slovenia-USA (BI-US/13-14-039) "Selected topics in systematic and evolutionary biology of spiders" (5,000€)
- 2012 PI: ARRS-Slovenian Research Agency programme financing of Biological Institute (4 FTE, ca. 230,000€)
- 2012 PI: ARRS-Slovenian Research Agency infrastructural programme financing of Biological Institute (47,000€)
- 2012 PI: ARRS-Slovenian Research Agency small grant for international collaboration with Singapore (1,430€)
- 2011-2017 collaborator (PIs I. Agnarsson, G. Binford): NSF-National Science Foundation USA (DEB-1314749 - 1050187-1050253) "Collaborative Research: the generation of a biodiversity hotspot - paleobiogeography of the Caribbean inferred from multiple arachnid lineages with differing dispersal abilities" (\$833,000)
- 2011-2015 PI: ARRS-Slovenian Research Agency "Young Researcher" graduate student funding (1 FTE, ca. 100,000€)
- 2011-2012 co-PI (with I. Agnarsson) National Geographic Society (grant 2911) "Islands on islands: Biogeography of spider web parasites and their hosts in the Indian Ocean" (\$20,000)
- 2011-2012 PI: Swiss Contribution to EU (C1536-11T440013) "Towards permanent conservation of biodiversity: the case of spider fauna of Switzerland and Slovenia" (CHF50,000/€35,721)
- 2011 PI: ARRS-Slovenian Research Agency infrastructural programme financing of Biological Institute (59,000€)
- 2010 PI: ARRS-Slovenian Research Agency infrastructural programme financing of Biological Institute (86,500€)
- 2010 PI: ARRS-Slovenian Research Agency small grant for international collaboration with Singapore (1,430€)
- 2009-2013 PI: ARRS-Slovenian Research Agency "Young Researcher" graduate student funding (1 FTE, ca. 120,000€)
- 2009-2012 PI: ARRS-Slovenian Research Agency (J1-2063) "Phylogenetic systematics of Zygiellidae and its implications for spider evolution research" (€153,000)
- 2009-2012 PI: ARRS-Slovenian Research Agency bilateral grant Slovenia-USA (BI-US/09-12-016): "Sexual size dimorphism – its consequences for sexual and foraging biology in spiders" (4,000€)
- 2009-2010 co-PI (with I. Agnarsson and T. Blackledge): National Geographic Society (grant 8655-09) "Casting spider webs across Malagasy rivers: Extraordinary silk in giant orb webs" (\$23,750)
- 2009 PI: ARRS-Slovenian Research Agency infrastructural programme financing of Biological Institute (75,000€)
- 2006-2009 PI: ARRS-Slovenian Research Agency "Young Researcher" graduate student funding (1 FTE, ca. 100,000€)
- 2006-2008 PI: EU 6th FP, Marie Curie International Reintegration Grant (MIRG-CT-2005-036536): "Nephilid spider phylogenetics as a test for antagonistic coevolution of sexes" (€76,000)
- 2006-2007 PI: ARRS-Slovenian Research Agency bilateral grant Slovenia-USA: "Biodiversity, systematics and evolution of orb-weaving spiders" (4,000€)
- 2005-2007 postdoc: ARRS-Slovenian Research Agency Z1-7082 "Nephilid spider phylogeny as a test for antagonistic coevolution of sexes" (1 FTE, ca. 70,000€)
- 2005 collaborator (PI J. Coddington): Smithsonian Institution (BDG & Small Grants). Estimating Spider Biodiversity in a French Guiana Forest Plot (\$5,000)
- 2002 PI: Organization for Tropical Studies-Smithsonian Tropical Research Institution, USA-Panama. Mellon Foundation grant for fieldwork in Panama and Costa Rica (\$2,000)
- 2000 co-PI (with I. Agnarsson): Sallee Charitable Trust, USA. Student grant for fieldwork in South Africa and Madagascar (\$7,000)

### Awards

- Top new species of 2016 selected by Newsweek (<http://www.newsweek.com/2017/01/06/top-new-species-2016-535995.html>): The leaf spider, *Poltys* sp.
- Fulbright visiting scholar to USA (Smithsonian Institution) in academic year 2016/2017
- National Institute of Biology, Slovenia, 2015: Miroslav Zei Award for exceptional achievements
- Guinness Book of Records, 2012 edition: Darwin's bark spider *Caerostris darwini* Kuntner & Agnarsson 2010 with largest webs and toughest silk
- Top 10 species for 2011 selected by the International Institute for Species Exploration, Arizona State University (<http://species.asu.edu/Top10>): Darwin's bark spider *Caerostris darwini* Kuntner & Agnarsson 2010

- Top 10 new species of 2010 selected by the Time magazine ([http://www.time.com/time/specials/packages/article/0,28804,2035319\\_2034045\\_2034038,00.html](http://www.time.com/time/specials/packages/article/0,28804,2035319_2034045_2034038,00.html)): Darwin's bark spider *Caerostris darwini* Kuntner & Agnarsson 2010
- Guinness Book of Records, 2011 edition: Largest orbweaver *Nephila komaci* Kuntner & Coddington 2009
- Top 10 species for 2010 selected by the International Institute for Species Exploration, Arizona State University (<http://species.asu.edu/Top10>): *Nephila komaci* Kuntner & Coddington 2009
- International Congress of Arachnology, South Africa, March 2001: Best Student Paper in Systematics
- Organization for Tropical Studies, USA, 2001. Tuition award for OTS 2001-3: Tropical Biology – An Ecological Approach, June-August 2001
- National Science Foundation, USA, 1999-2003. Graduate student fellowship from a PEET grant in Araneoid Spider Systematics (to Hormiga and Coddington)
- George Washington University, USA, 1999-2004. Tuition award for doctoral study

## Outreach

- Editorial Board, *Diversity* (2020-present): <https://www.mdpi.com/journal/diversity/editors>
- Editorial Review Board, *Journal of Biogeography* (2018-present)
- Academic Editor, *PLOS ONE* (2014-present): <http://www.plosone.org/static/edboard>
- Associate Editor for Behavioral and Evolutionary Ecology, *Frontiers in Ecology and Evolution* (2013-2018): [http://www.frontiersin.org/Behavioral\\_and\\_Evolutionary\\_Ecology/editorialboard](http://www.frontiersin.org/Behavioral_and_Evolutionary_Ecology/editorialboard)
- Specialty editor GEN Araneae, *ZooKeys* (2012-present): <https://zookeys.pensoft.net/editors/>
- Associate Editor for Systematics and Taxonomy, *Journal of Arachnology* (2011-2014)
- Editorial board member: *ISRN Zoology* (2010-2011); *International Journal of Applied Zoology* (2005-2011); *Hacquetia* (2005-present); *Phylonyms: a companion to the PhyloCode* (CRC Press, Boca Raton, FL)
- Organizer, 27<sup>th</sup> European Congress of Arachnology, 2-7 September 2012, Ljubljana, Slovenia
- Memberships: International Society of Arachnology (Council member 2007-2013 and National correspondent for Slovenia 1999-present; European Society of Arachnology (Council member 2009-2014); IUCN Species Survival Commission; Society for the Study of Evolution; American Arachnological Society
- Grant reviews, international: European Union (The Energy and Environment Solutions initiative), The US National Science Foundation; The National Geographic Society, Macquarie University Research Fellowships; Grant Agency - Academy of Sciences of the Czech Republic
- Academic peer reviewing for (alphabetical): *Acta Entomologica Slovenica*; *Acta Oecologica*; *The American Naturalist*; *Animal Behaviour*; *Arachnology*; *Arachnology Letters*; *Arthropod Systematics and Phylogeny*; *Behavioral Ecology*; *Behavioral Ecology and Sociobiology*; *Biodiversity Data Journal*; *Biological Journal of the Linnean Society*; *Biology Letters*; *BMC Evolutionary Biology*; *Breviora*; *Bulletin de la Société entomologique de France*; *Bulletin of Entomological Research*; *Canadian Journal of Zoology*; *Cladistics*; *Current Biology*; *Ecography*; *Ecology and Evolution*; *Environmental Conservation*; *Environmental Entomology*; *Ethology*; *Ethology, Ecology and Evolution*; *European Journal of Taxonomy*; *Evolution*; *Evolutionary Ecology*; *Evolution & Development*; *Frontiers in Neuroscience, section Evolutionary Psychology and Neuroscience*; *Genes*; *Global Ecology and Biogeography*; *Historical Biology*; *Heredity*; *Insect Systematics and Evolution*; *Invertebrate Reproduction and Development*; *Invertebrate Systematics*; *ISRN Zoology*; *Journal of Animal Ecology*; *Journal of Arachnology*; *Journal of Biogeography*; *Journal of Ethology*; *Journal of Evolutionary Biology*; *Journal of Experimental Zoology Part A: Ecological Genetics and Physiology*; *Journal of Heredity*; *Journal of Tropical Ecology*; *Journal of Zoological Systematics and Evolutionary Research*; *Journal of Zoology*; *Mitochondrial DNA*; *Molecular Biology and Evolution*; *Molecular Ecology*; *Molecular Ecology Resources*; *Molecular Phylogenetics and Evolution*; *National Geographic Magazine*; *Natura Sloveniae*; *Naturwissenschaften*; *PeerJ*; *PLoS ONE*; *Proceedings of the Royal Society B*; *Records of the Australian Museum*; *Revista Ibérica de Aracnología*; *Royal Society Open Science*; *Scientific Reports*; *Spider Families of the World*; *Springer (Biodiversity Conservation and Phylogenetic Systematics)*; *Systematics and Biodiversity*; *Systematic Biology*; *ZooKeys*; *Zoologica Scripta*; *Zoological Journal of the Linnean Society*; *Zoologischer Anzeiger*; *Zootaxa*

## Research Group (Double institutional EZ Lab - <http://ezlab.zrc-sazu.si/>)

- Dr. Matjaž Kuntner, principal investigator
- Dr. Simona Kralj-Fišer, co-principal investigator, postdoc 2009-2013, researcher 2013-today
- Dr. Matjaž Gregorič, co-principal investigator, postdoc 2015-2019, PhD student 2008-2013
- Dr. Klemen Čandek, postdoc 2019-today, PhD student 2013-2018
- Tjaša Lokovšek, research assistant 2008-today
- Mohammed Javad Malekhosseini, PhD student 2016-2019, University of Ljubljana
- Eva Turk, PhD student 2017-2021, University of Ljubljana
- ALUMNI: Dr. Shakira Quiñones Lebrón, PhD student 2014-2020; Dr. Ren-Chung Cheng, PhD student 2011-2016, postdoc 2016; Prof. Ingi Agnarsson, EZ research associate 2007-2009; Rebeka Šiling, undergraduate student 2011-2012; Urška Pristovšek, undergraduate student 2011-2013; Nina Vidergar, research assistant



2011-2012; Klavdija Šuen, undergraduate student 2011-2014; Xin Xu, PhD student at Hubei University 2011-2015

### *International Collaboration (ongoing)*

- Ingi Agnarsson, University of Vermont, USA
- Paul Babb, University of Pennsylvania, USA
- Jason Bond, University of California Davis, USA
- Ren-Chung Cheng, National Chung Hsing University, Taiwan
- Jonathan Coddington, Smithsonian Institution, USA
- Mark Elgar, University of Melbourne, Australia
- Charles Haddad, University of Free State, South Africa
- Chris Hamilton, University of Idaho, USA
- Eileen Hebets, University of Nebraska, USA
- Henrik Krehenwinkel, Trier University, Germany
- Daiqin Li, National University of Singapore, Singapore
- Jutta Schneider, University of Hamburg, Germany
- Yong-Chao Su, Kaohsiung Medical University, Taiwan
- Benjamin Voight, University of Pennsylvania, USA
- Xin Xu, Hunan Normal University, China

### *Publications* (\*denotes first incl. shared, or senior authorship)

- 1) Agnarsson, I. & **\*Kuntner, M.** 2020. *Araneae*. Pp. 613–616 in *Phylonyms: A Companion to the PhyloCode* (K. de Queiroz, P.D. Cantino, and J.A. Gauthier, eds.). CRC Press, Boca Raton, FL.
- 2) Agnarsson, I. & **\*Kuntner, M.** 2020. *Mesothelae*. Pp. 617–618 in *Phylonyms: A Companion to the PhyloCode* (K. de Queiroz, P.D. Cantino, and J.A. Gauthier, eds.). CRC Press, Boca Raton, FL.
- 3) Agnarsson, I. & **\*Kuntner, M.** 2020. *Araneomorphae*. Pp. 623–624 in *Phylonyms: A Companion to the PhyloCode* (K. de Queiroz, P.D. Cantino, and J.A. Gauthier, eds.). CRC Press, Boca Raton, FL.
- 4) Čandek, K., Agnarsson, I., Binford, G. & **\*Kuntner, M.** 2020. Caribbean golden orbweaving spiders maintain gene flow with North America. *Zoologica Scripta* 49:210-221. bioRxiv preprint first posted online Oct. 26, 2018; doi: <http://dx.doi.org/10.1101/454181>.
- 5) Čandek, K., Pristovšek Čandek, U. & **\*Kuntner, M.** 2020. Machine learning approaches identify male body size as the most accurate predictor of species richness. *BMC Biology*, <https://doi.org/10.1186/s12915-020-00835-y>
- 6) Kralj-Fišer, S., Schneider, J.M., **Kuntner, M.** & Garcia-Gonzalez, F. 2020. Sex-specific genetic architecture of behavioral traits in a spider. Preprint first posted on bioRxiv July 29, 2020; doi: <https://doi.org/10.1101/2020.07.28.224675>.
- 7) **\*Kuntner, M.** & Agnarsson, I. 2020. *Opisthothelae*. Pp. 619–620 in *Phylonyms: A Companion to the PhyloCode* (K. de Queiroz, P.D. Cantino, and J.A. Gauthier, eds.). CRC Press, Boca Raton, FL.
- 8) **Kuntner, M.** & Agnarsson, I. 2020. *Mygalomorphae*. Pp. 621–622 in *Phylonyms: A Companion to the PhyloCode* (K. de Queiroz, P.D. Cantino, and J.A. Gauthier, eds.). CRC Press, Boca Raton, FL.
- 9) **\*Kuntner, M.** & Coddington, J.A. 2020. Sexual size dimorphism: evolution and perils of extreme phenotypes in spiders. *Annual Review of Entomology* 65: 57–80.
- 10) Luo, Y., Goh, S.P., Li, D., Gonzaga, M.O., Santos, A.J., Tanikawa, A., Yoshida, H., Haddad, C.R., May-Collado, L.J., Gregorič, M., Turk, E., **Kuntner, M.** & Agnarsson, I. 2020. Global diversification of *Anelosimus* spiders driven by long distance overwater dispersal and Neogene climate oscillations. *Systematic Biology* 69: 1122-1136. <https://doi.org/10.1093/sysbio/syaa017>.
- 11) Turk, E., Čandek, K., Kralj-Fišer, S. & **\*Kuntner, M.** 2020. Biogeographic history of golden orbweavers: Chronology of a global conquest. *Journal of Biogeography* 47:1333-1344. Doi: 10.1111/jbi.13838.
- 12) Xu, X., **\*Kuntner, M.**, Bond, J.E., Ono, H., Ho, S.Y.W., Liu, F. Yu, L. & Li, D. 2020. Molecular species delimitation in the primitively segmented spider genus *Heptathela* endemic to Japanese islands. *Molecular Phylogenetics and Evolution* 151: <https://doi.org/10.1016/j.ympev.2020.106900>. Preprint first posted on bioRxiv Oct. 21, 2019; doi: <http://dx.doi.org/10.1101/812214>.
- 13) Fatemi, Y., Malek-Hosseini, M.J., Falniowski, A., Hofman, S., **Kuntner, M.** & Grego, J. 2019. Description of a new genus and species as the first gastropod species from caves in Iran. *Journal of Cave and Karst Studies* 81: 233-243. DOI:10.4311/2019LSC0105.
- 14) Garb, J.E., Haney, R.A., Schwager, E.E., Gregorič, M., **Kuntner, M.**, Agnarsson, I. & Blackledge, T.A. 2019. The transcriptome of Darwin's bark spider silk glands predicts proteins contributing to dragline silk toughness. *Communications Biology* 2:275. DOI:10.1038/s42003-019-0496-1.
- 15) **\*Kuntner, M.**, Hamilton, C.A., Cheng, R.-C., Gregorič, M., Lupše, N., Lokovšek, T., Lemmon, E., Lemmon, A., Agnarsson, I., Coddington, J.A., Bond, J.E. 2019. Golden Orbweavers Ignore Biological Rules: Phylogenomic and Comparative Analyses Unravel a Complex Evolution of Sexual Size Dimorphism. *Systematic Biology* 68(4): 555–572. bioRxiv preprint first posted online Jul. 13, 2018; doi: <http://dx.doi.org/10.1101/368233>.

- 16) Quiñones-Lebrón, S.G., Gregorič, M., **Kuntner, M.** & Kralj-Fišer, S. 2019. Small size does not confer male agility advantages in a sexually-size dimorphic spider. *PLoS ONE* 14(5): e0216036.
- 17) Tong, Y., Binford, G.J., Rheims, C.A., **Kuntner, M.**, Liu, J. & Agnarsson, I. 2019. Huntsmen of the Caribbean: Multiple tests of the GAARlandia hypothesis. *Molecular Phylogenetics and Evolution* 130:259-268.
- 18) Xu, X., Ono, H., **Kuntner, M.**, Liu, F. & Li, D. 2019. A taxonomic monograph of the liphistiid spider genus *Heptathela*, endemic to Japanese islands. *ZooKeys* 888: 1–50. <https://doi.org/10.3897/zookeys.888.34494>.
- 19) Zhan, Y., Jiang, H., Wu, Q., Zhang, H., Bai, Z., **Kuntner, M.** & Tu, L. 2019. Comparative morphology refines the conventional model of spider reproduction. *PLoS ONE* 14(7): e0218486. <https://doi.org/10.1371/journal.pone.0218486>.
- 20) Chamberland, L., McHugh, A., Kechejian, S., Binford, G.J., Bond, J.E., Coddington, J., Dolman, G., Hamilton, C.A., Harvey, M.S., **Kuntner, M.** & Agnarsson, I. 2018. From Gondwana to GAARlandia: Evolutionary history and biogeography of ogre-faced spiders (*Deinopis*). *Journal of Biogeography* 45:2442-2457. DOI: 10.1111/jbi.13431.
- 21) Čandek, K., Agnarsson, I., Binford, G. & **\*Kuntner, M.** 2018. Biogeography of the Caribbean *Cyrtognatha* spiders. *Scientific Reports* 9:397.
- 22) Čandek, K., Agnarsson, I., Binford, G. & **\*Kuntner, M.** 2018. Global biogeography of *Tetragnatha* spiders reveals multiple colonization of the Caribbean. bioRxiv preprint first posted online Oct. 25, 2018; doi: <http://dx.doi.org/10.1101/452227>.
- 23) Khalaji-Pirbalouty, V., Fatemi, Y., Malek-Hosseini, M. J. & **\*Kuntner, M.** 2018. A new species of *Stenasellus* Dollfus, 1897 from Iran, with a key to the western Asian species (Crustacea, Isopoda, Stenasellidae). *ZooKeys* 766: 39-50.
- 24) **\*Kuntner, M.**, Agnarsson, I. 2018. Diversity of tropical spiders. *Frontiers for Young Minds* 6:64. doi: 10.3389/frym.2018.00064.
- 25) Turk, E., **Kuntner, M.** & Kralj-Fišer, S. 2018. Cross-sex genetic correlation does not extend to sexual size dimorphism in spiders. *The Science of Nature* 105 (1-2), 1.
- 26) **\*Xu, X., \*Kuntner, M.**, Liu, F., Chen, J. & Li, D. 2018. Formation of rivers and mountains drives diversification of primitively segmented spiders in continental East Asia. *Journal of Biogeography* 45:2080-2091. DOI: 10.1111/jbi.13403 **\*Joint first authors.**
- 27) Babb, P.L., Lahens, N.F., Correa-Garhwal, S.M., Nicholson, D.N., Kim, E.J, Hogenesch, J.B., **Kuntner, M.**, Higgins, L., Hayashi, C.Y., Agnarsson, I. & Voight, B.F. 2017. The *Nephila clavipes* genome highlights the diversity of spider silk genes and their complex expression. *Nature Genetics* 49: 895–903; doi:10.1038/ng.3852.
- 28) Gorički, Š., Stanković, D., Snoj, A., **Kuntner, M.**, Jeffery, W.R., Trontelj, P., Pavićević, M., Grizelj, Z., Năpăruș-Aljančić, M. & Aljančić, G. 2017. Environmental DNA in subterranean biology: range extension and taxonomic implications for *Proteus*. *Scientific Reports* 7, 45054; doi: 10.1038/srep45054.
- 29) Kralj-Fišer, S., Hebets, E. & **\*Kuntner, M.** 2017. Different patterns of behavioral variation across and within species of spiders with differing degrees of urbanization. *Behavioral Ecology and Sociobiology* 71: DOI 10.1007/s00265-017-2353-x.
- 30) **\*Kuntner, M.** 2017. Nephilidae. In: Ubick, D., Paquin, P., Cushing, P.E. and Roth, V. (eds) *Spiders of North America: an identification manual*, 2nd Edition. American Arachnological Society, Keene, New Hampshire, USA, pp 191-192.
- 31) **\*Kuntner, M.**, Rudolf, E. & Cardoso, P. 2017. Nephilidae (37 species chapters). The IUCN Red List of Threatened Species 2017: e.T78591749A78595495 etc.
- 32) Năpăruș-Aljančić, M., Gorički, Š., Stanković, D., **Kuntner, M.**, & Aljančić, G. 2017. GIS analysis to assess the groundwater habitat pollution of black proteus. *Natura Sloveniae* 19: 47-49.
- 33) Xu, X., Liu, F., Ono, H., Chen, J., **\*Kuntner, M.** & Li, D. 2017. Targeted sampling in Ryukyus facilitates species delimitation of the primitively segmented spider genus *Ryuthela* (Araneae: Mesothelae: Liphistiidae). *Zoological Journal of the Linnean Society* 181: 867-909.
- 34) Xu, X., Liu, F., **Kuntner, M.** & Li, D. 2017. Four new species of the primitively segmented spider genus *Qionghela* from Hainan island, China (Mesothelae, Liphistiidae). *ZooKeys* 714:1-11; DOI: 10.3897/zookeys.714.19858.
- 35) Agnarsson, I., Gotelli, N.J., Agostini, D. & **\*Kuntner, M.** 2016. Limited role of character displacement in the coexistence of congeneric *Anelosimus* spiders in a Madagascan montane forest. *Ecography* 39: 743-753. doi: 10.1111/ecog.01930
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- Kuntner, M.,** Rudolf, E. & Cardoso, P. 2017. *Nephila inaurata*. The IUCN Red List of Threatened Species 2017: e.T89292381A89292888. Downloaded on 16 May 2017.
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- Kuntner, M.,** Rudolf, E. & Cardoso, P. 2017. *Nephilingis cruentata*. The IUCN Red List of Threatened Species 2017: e.T80274336A80274370. Downloaded on 16 May 2017.
- Kuntner, M.,** Rudolf, E. & Cardoso, P. 2017. *Nephilingis dodo*. The IUCN Red List of Threatened Species 2017: e.T80274377A80274414. Downloaded on 16 May 2017.
- Kuntner, M.,** Rudolf, E. & Cardoso, P. 2017. *Nephilingis livida*. The IUCN Red List of Threatened Species 2017: e.T80274449A89263739. Downloaded on 16 May 2017.

## Invited Seminars

- Kaohsiung Medical University, Kaohsiung, Taiwan (18.x.2018): "Golden Orbweavers Ignore Biological Rules: Phylogenomic and Comparative Analyses Unravel a Complex Evolution of Sexual Size Dimorphism"
- National Institute of Biology, Ljubljana, Slovenia (23.v.2018): "Raziskave evolucijske biologije pajkov"
- Hubei University, Wuhan, China (23.x.2017): "Spider phylogenomics reveals a complex evolution of sexual size dimorphism"
- University of Nebraska, Lincoln, NE, USA – Seminar for the School of Biological Sciences (1.xii.2016): "Biology of gigantism: Extreme phenotypes in sexually dimorphic spiders"
- University of Maryland, College Park, MD, USA – Entomology Colloquium (14.x.2016): "Biological correlates of sexual size dimorphism in spiders"
- Smithsonian Institution, National Museum of Natural History, Washington, DC, USA - Entomology Seminar (29.ix.2016): "Biology of gigantism: Extreme phenotypes in sexually dimorphic spiders"
- Museum für Naturkunde, Berlin, Germany (9.v.2016): "Extreme female-biased sexual size dimorphism in spiders: A convergent evolutionary research agenda"
- Evolutionary Biology Seminar, University of Potsdam, Germany (9.v.2016): "Extreme female-biased sexual size dimorphism in spiders: A convergent evolutionary research agenda"
- Plenary lecture, 3rd Conference of Asian Society of Arachnology, Amravati, India (16.xi.2015): "Sexual dimorphism in spiders and its biological correlates"
- Hubei University, Wuhan, China (22.iv.2014): "The power of systematics"
- Slovene Natural History Museum, Ljubljana, Slovenia (20.ii.2014): "Evolutionary dwarves and giants among spiders (in Slovene)"
- Dresdener Zoologische Kolloquien, Senckenberg Museum fuer Naturkunde Dresden, Germany (13.xi.2013): "Online Sex: Evolution of spider behaviors"
- Biodiversity and Integrated Pest Management, Manado, Indonesia (4.vii.2013): "The impact of global changes on spider biodiversity"
- Plenary lecture, 19th International Congress of Arachnology, Kenting, Taiwan (27.vi.2013): "A model spider lineage: Reconstructing its past and predicting its future"
- Scientific Research Centre, Slovenian Academy of Sciences and Arts, Ljubljana, Slovenia (4.vi.2013): "Z Darwinom okoli sveta: Raziskovanje kot potovanje". Round table with V. Likar, B. Telban, A. Hodalič
- National Institute of Biology, Ljubljana, Slovenia (13.xi.2012): "Biology of model spider groups: Reconstructing the past and predicting the future (in Slovene)"
- University of Puerto Rico, Rio Piedras, Puerto Rico (14.iii.2012): "Spider Diversity Research in the Global Change Era"
- Ljubljana, Slovenia, open air public lecture as part of the EU-wide Night of the Researchers (23.ix.2011): "Charles Darwin and evolution (in Slovene)" (see [http://www.zaznanost.si/?page\\_id=663](http://www.zaznanost.si/?page_id=663))
- Hubei University, Wuhan, China (14.vi.2011): "Evolution and Biological Consequences of Sexual Size Dimorphism in Spiders"
- Xishuangbanna Tropical Botanical Garden (Chinese Academy of Science), Yunnan, China (30.xii.2010): "Webs, Sex and Systematics: Fascinating Biology of Nephilid Spiders"
- Amravati University, India (27.ix.–2.xii.2010): Lectures and demonstrations at National Symposium/Workshop of Arachnology, Melghat Tiger Reserve, Maharashtra.
- Café Open, Ljubljana, Slovenia (3.x.2010): "Evolucija ali/in kreacionizem – pogled biologa" (public lecture available at <http://open.si/?p=4420>)
- Raziskovalni tabor študentov biologije, Most na Soči, Slovenia (25.vii.2010): "Evolucijske oboroževalne tekme pajkov velikanov"
- Znanstveni večeri Univerze v Novi Gorici, Zemono, Slovenia (22.iv.2010): "Evolucijske oboroževalne tekme pajkov velikanov"
- Hiša eksperimentov, Ljubljana, Slovenia (21.iv.2010): "Evolucijske oboroževalne tekme pajkov velikanov"
- Zborovanje učiteljev zgodovine, Črnomelj, Slovenia (16.iv.2010): "Pomen teorije evolucije in trenutne evolucijske raziskave v Sloveniji"
- TEDxMaribor, Maribor, Slovenia (2.ii.2010): Live video lecture on giant spiders titled "Ekstremni spolni dimorfizem pri pajkih gigantih", available at [http://videlectures.net/tedx2010\\_kuntner\\_pajki/](http://videlectures.net/tedx2010_kuntner_pajki/); <http://www.tedxmaribor.com/>
- University of Malaya, Kuala Lumpur, Malaysia (8.i.2010): "Webs, Sex and Systematics: Evolutionary Arms Race in Nephilid Spiders"
- Tunghai University, Taichung, Taiwan (16.xii.2009): "Webs, Sex and Systematics: Evolutionary Arms Race in Nephilid Spiders"
- Bern University, Institute of Ecology and Evolution, together with the Natural History Museum Bern, Switzerland (13.x.2009), Lecture series in ecology and evolution: "Webs, Sex and Systematics: Evolutionary Arms Race in Nephilid Spiders"
- Slovenian Academy of Sciences and Arts, Ljubljana, Slovenia (22.v.2009), Darwinov Dan: "Evolucija gigantizma in spolnega antagonizma pri pajkih"

- Scientific Research Centre, Slovenian Academy of Sciences and Arts, Ljubljana, Slovenia (19.v.2009), Historični Seminar: “Darwin in evlucijska misel 150 let kasneje – ob 200-letnici Darwinovega rojstva in 150-letnici izida Nastanka vrst”
- University of Puerto Rico, Rio Piedras, Puerto Rico (2009): “Webs, Sex and Systematics: Evolutionary Arms Race in Nephilid Spiders”
- Swedish Museum of Natural History, Department of Entomology, Stockholm, Sweden (2008): “Webs, Sex and Systematics: Evolutionary Arms Race in Nephilid Spiders”
- Oxford University, Jesus College, UK (2007): Leading discussion “What expertise will we need?” during EDIT (European Distributed Institute of Taxonomy) workshop “Taxonomy in Europe in the 21st Century”
- National Parks, Singapore (2007): “Sexually Antagonistic Coevolution in Nephilid Spiders and the Importance of Taxonomy in Addressing Evolutionary Questions”
- National University of Singapore, Department of Biological Sciences, Singapore (2007): “Sexually Antagonistic Coevolution in Nephilid Spiders”
- University of Nova Gorica, School for Environmental Sciences, Gorizia, Italy (2007): “Evolutionary Arms Race? Phylogenetics and Sexual Biology of Nephilid Spiders”
- Smithsonian Institution, National Museum of Natural History, Washington, DC, USA (2005): “Evolutionary Arms Race: Systematics and Biology of Nephilid Spiders”
- Plenary lecture, 22nd European Colloquium of Arachnology, Blagoevgrad, Bulgaria (2005): “Systematics and Evolution of Nephilid Spiders”
- George Washington University, Washington, DC, USA (2004): “Systematics and Evolution of Nephilid Spiders”
- Royal Museum for Central Africa, Tervuren, Belgium (2003): “Measuring Biodiversity” (with J. Coddington)
- La Selva Biological Station, Costa Rica (2003): “Estimating biodiversity from local to phylogenetic scales” (with J. Coddington)
- Scientific Research Centre, Slovenian Academy of Sciences and Arts, Ljubljana, Slovenia (1999): “Spider Biodiversity in Guyana”

### Teaching & Mentorship

- Oxford Brookes University, 2018-ongoing: Co-advisor, PhD thesis: S. Williams
- Hubei University, 23.x.2017: Guest lecture for graduate students "Scientific Writing: How to publish your research"
- Hubei University, 23.x.2017: Guest lecture for undergraduate course General Ecology
- University of Vermont, 1.ix.2017: Guest lecture for advanced undergraduate course Field Zoology
- University of Ljubljana, 2017-2021: Co-advisor, PhD thesis: E. Turk
- University of Ljubljana, 2016-ongoing: Advisor, PhD thesis: M.J. Malekhosseini
- National University of Singapore, 2015: External examiner, PhD candidature qualifying examination: Z. Chen
- University of Ljubljana, 2.vi.2015: Guest lecture for Biology masters module Functional Morphology
- University of Ljubljana, 2014-ongoing: Teaching BioSciences graduate course “Systematics and Evolution”
- University of Ljubljana, 2014-2020: Advisor, PhD thesis: S. Quiñones Lebrón
- University of Ljubljana, 2013-2018: Advisor, PhD thesis: K. Čandek
- University of Ljubljana, 2014: Committee member, PhD thesis: T. Delić
- University of Ljubljana, 2014: Committee member, PhD thesis: M. Lukić
- Hubei University, 10-23.iv.2014: Visiting professor for topical graduate module Systematics Fundamentals
- University of Ljubljana, 2012-2013: Advisor, MSc thesis: U. Pristovšek
- University of Ljubljana, 2011-2013: Advisor, MSc thesis: K. Čandek
- University of Ljubljana, 2011-2016: Advisor, PhD thesis: R.-C. Cheng
- University of Ljubljana, 25.v.2012: Guest lecture for Biology masters module Functional Morphology
- University of Puerto Rico, 12-16.iii.2012: Visiting professor for topical graduate module Global Change Biology
- University of Zagreb, 2012-2017: Co-advisor, PhD thesis: L. Katušić
- National University of Singapore, 2011: External examiner, PhD thesis: LM Yap
- National University of Singapore, 2011: Co-advisor, honours thesis: J Oh
- University of Western Australia, 2011: External examiner, PhD thesis: K. Edward
- National University of Singapore, 2011: Guest lecture for Behavioural Biology (LSM4253)
- National University of Singapore, 2010: External examiner, PhD candidature qualifying examination: SP Goh
- Amravati University, 27.xi.-2.xii.2010: Guest faculty at Indian National Symposium/Workshop of Arachnology
- University of Malaya, 2010-2011: Co-advisor, MSc thesis: NSM Dzarawi
- University of Ljubljana, 2010: Development of graduate course “Systematics and Evolution”, now titled “Systematic and Evolutionary Biology”
- University of Ljubljana, 2010-2012: Committee member, PhD thesis: M. Turjak
- Macquarie University, 2009: External examiner, PhD thesis: A. Harmer
- University of Western Australia, 2009: External examiner, PhD thesis: M. Rix
- University of Ljubljana, 2008-2013: Advisor, PhD thesis: M. Gregorič
- University of Ljubljana, 2006-2009: Co-advisor, PhD thesis: S. Kralj-Fišer



- Universidad de Costa Rica and Organization for Tropical Studies, OTS 2003-1: Tropical Biology - An Ecological Approach, resource person for diversity measurements and spider ecology, La Selva Biological Station, Costa Rica, February 2003
- George Washington University, 2003-04: Teaching assistant, Introductory Biology for science majors

### Newly Described Taxa

- **Species:** *Singafrotypa okavango* Kuntner and Hormiga, 2002; *Singafrotypa mandela* Kuntner and Hormiga, 2002; *Anelosimus andasibe* Agnarsson and Kuntner, 2005; *Anelosimus nazariani* Agnarsson and Kuntner, 2005; *Anelosimus sallee* Agnarsson and Kuntner, 2005; *Anelosimus salut* Agnarsson and Kuntner, 2005; *Anelosimus vondrona* Agnarsson and Kuntner, 2005; *Herennia agnarssoni* Kuntner, 2005; *Herennia deelemana* Kuntner, 2005; *Herennia etruscilla* Kuntner, 2005; *Herennia gagamba* Kuntner, 2005; *Herennia jernej* Kuntner, 2005; *Herennia milleri* Kuntner, 2005; *Herennia oz* Kuntner, 2005; *Herennia sonja* Kuntner, 2005; *Herennia tone* Kuntner, 2005; *Clitaetra irenae* Kuntner, 2006; *Heptathela aha* Xu, Ono, Kuntner, Liu and Li; *Heptathela crypta* Xu, Ono, Kuntner, Liu and Li; *Heptathela gayozan* Xu, Ono, Kuntner, Liu and Li; Liu and Li; *Heptathela kojima* Xu, Ono, Kuntner, Liu and Li; *Heptathela kubayama* Xu, Ono, Kuntner, Liu and Li; *Heptathela mae* Xu, Ono, Kuntner, Liu and Li; *Heptathela otoh*a Xu, Ono, Kuntner, Liu and Li; *Heptathela shuri* Xu, Ono, Kuntner, Liu and Li; *Heptathela sumiyo* Xu, Ono, Kuntner, Liu and Li; *Heptathela tokashiki* Xu, Ono, Kuntner, Liu and Li; *Heptathela uken* Xu, Ono, Kuntner, Liu and Li; *Heptathela unten* Xu, Ono, Kuntner, Liu and Li; *Nephila komaci* Kuntner and Coddington, 2009; *Caerostris darwini* Kuntner and Agnarsson, 2010; *Nephilengys dodo* Kuntner and Agnarsson, 2011; *Menneus darwini* Coddington, Kuntner and Opell, 2012; *Menneus samperi* Coddington, Kuntner and Opell, 2012; *Menneus aussie* Coddington, Kuntner and Opell, 2012; *Menneus bituberculatus* Coddington, Kuntner and Opell, 2012; *Menneus nemesio* Coddington, Kuntner and Opell, 2012; *Menneus quasimodo* Coddington, Kuntner and Opell, 2012; *Menneus wa* Coddington, Kuntner and Opell, 2012; *Anelosimus hookeri* Agnarsson, Kuntner and Jencik, 2015; *Anelosimus tita* Agnarsson, Kuntner and Jencik, 2015; *Anelosimus ata* Agnarsson, Kuntner and Jencik, 2015; *Anelosimus darwini* Agnarsson, Kuntner and Jencik, 2015; *Anelosimus wallacei* Agnarsson, Veve and Kuntner, 2015; *Anelosimus huxleyi* Agnarsson, Veve and Kuntner, 2015; *Anelosimus buffoni* Agnarsson, Kuntner and Jencik, 2015; *Anelosimus moramora* Agnarsson, Kuntner and Jencik, 2015; *Caerostris wallacei* Gregorič, Blackledge, Agnarsson and Kuntner, 2015; *Ganthela jianensis* Xu, Kuntner and Chen, 2015; *Ganthela qingyuanensis* Xu, Kuntner and Liu, 2015; *Ganthela wangjiangensis* Xu, Kuntner and Liu, 2015; *Ganthela xianyouensis* Xu, Kuntner and Chen, 2015; *Ryuthela henoko* Xu, Liu, Ono, Chen, Kuntner and Li, 2017; *Qionghela bawang* Xu, Liu, Kuntner and Li, 2017; *Qionghela jianfeng* Xu, Liu, Kuntner and Li, 2017; *Qionghela yini* Xu, Liu, Kuntner and Li, 2017; *Qionghela wuzhi* Xu, Liu, Kuntner and Li, 2017; *Ryuthela kisenbaru*; Xu, Liu, Ono, Chen, Kuntner and Li, 2017; *Ryuthela motobu* Xu, Liu, Ono, Chen, Kuntner and Li, 2017; *Ryuthela nago* Xu, Liu, Ono, Chen, Kuntner and Li, 2017; *Ryuthela shimojanai* Xu, Liu, Ono, Chen, Kuntner and Li, 2017; *Ryuthela unten* Xu, Liu, Ono, Chen, Kuntner and Li, 2017; *Ryuthela banna* Xu, Liu, Ono, Chen, Kuntner and Li, 2017; *Ryuthela hirakubo* Xu, Liu, Ono, Chen, Kuntner and Li, 2017; *Ryuthela yarabu* Xu, Liu, Ono, Chen, Kuntner and Li, 2017; *Heptathela aha* Xu, Ono, Kuntner, Liu & Li, 2019; *Heptathela crypta* Xu, Ono, Kuntner, Liu & Li, 2019; *Heptathela gayozan* Xu, Ono, Kuntner, Liu & Li, 2019; *Heptathela kojima* Xu, Ono, Kuntner, Liu & Li, 2019; *Heptathela kubayama* Xu, Ono, Kuntner, Liu & Li, 2019; *Heptathela mae* Xu, Ono, Kuntner, Liu & Li, 2019; *Heptathela otoh*a Xu, Ono, Kuntner, Liu & Li, 2019; *Heptathela shuri* Xu, Ono, Kuntner, Liu & Li, 2019; *Heptathela sumiyo* Xu, Ono, Kuntner, Liu & Li, 2019; *Heptathela tokashiki* Xu, Ono, Kuntner, Liu & Li, 2019; *Heptathela unten* Xu, Ono, Kuntner, Liu & Li, 2019; *Heptathela uken* Xu, Ono, Kuntner, Liu & Li, 2019.
- **Genera:** *Nephilingis* Kuntner, 2013; *Ganthela* Xu and Kuntner, 2015; *Qionghela* Xu and Kuntner, 2015.
- **Families:** Nephilidae (new rank) Kuntner, 2006.

### Media Coverage & Interviews

**Knowable Magazine:** The ungentle joy of spider sex (28 Oct 2020; <https://knowablemagazine.org/article/living-world/2020/the-ungentle-joy-spider-sex>)

**Radio Slovenia International:** My Life, My Music (21 July 2020; <https://4d.rtvsllo.si/arhiv/my-life-my-music/174709303>)

**Tromba.si:** 21. stoletje bo stoletje bioloških znanosti. Interview for national science outlet (<http://www.tromba.si/prof-dr-matjaz-kuntner-direktor-nib-21-stoletje-bo-stoletje-bioloških-znanosti-2/>)

Metina Lista Top Publications Coverage July 2017: <https://metinalista.si/top-objave-julij-2017/>

Selected coverage of the 2017 *Nature Genetics* paper:

- **Science Daily** (<https://www.sciencedaily.com/releases/2017/05/170501112627.htm>)
- **POP TV** (<http://www.24ur.com/novice/znanost-in-tehnologija/odkritje-ki-bo-spremenilo-industrijsko-proizvodnjo-in-prineslo-izjemno-korist-medicini.html>)

Selected coverage of the 2016 *Journal of Arachnology* paper:

- **BBC World Service** Outside Source radio interview (18 Nov 2016, ca. at 50th min at <http://www.bbc.co.uk/programmes/p04fwwk2>)



- **Newsweek** (online at <http://www.newsweek.com/2016/12/23/spider-camouflages-itself-leaf-foliage-530668.html?rx=us>; printed edition 23 December 2016: pages 46-47)
- **New Scientist** (<https://www.newscientist.com/article/2113153-masquerading-spider-looks-like-living-and-dead-leaves-at-once/>)
- **Live Science** (<http://www.livescience.com/56910-leaf-mimicking-spider-found.html>)
- **National Geographic** (<http://news.nationalgeographic.com/2016/11/spiders-leaves-china-camouflage/>)
- **Focus** ([http://www.focus.de/wissen/videos/in-chinesischem-regenwald-kaum-zu-erkennen-biologe-entdeckt-laub-nachahmende-spinne\\_id\\_6239831.html](http://www.focus.de/wissen/videos/in-chinesischem-regenwald-kaum-zu-erkennen-biologe-entdeckt-laub-nachahmende-spinne_id_6239831.html))
- **Daily Mail** (<http://www.dailymail.co.uk/sciencetech/article-3945304/The-strange-spider-species-looks-just-like-LEAF-Arachnid-lurks-trees-remained-hidden-years.html>)
- **Mirror** (<http://www.mirror.co.uk/news/world-news/newly-discovered-camouflage-spider-hides-9337859>)
- **Fox News** (<http://www.foxnews.com/science/2016/11/18/newfound-spider-species-masquerades-as-dried-up-leaf.html>)
- **Motherboard** (<http://motherboard.vice.com/read/this-camouflaging-spider-will-make-you-forever-suspicious-of-dead-leaves>)
- **Real Clear Science** ([http://www.realclearscience.com/quick\\_and\\_clear\\_science/2016/11/16/this\\_spider\\_pretends\\_to\\_be\\_a\\_leaf.html](http://www.realclearscience.com/quick_and_clear_science/2016/11/16/this_spider_pretends_to_be_a_leaf.html))
- **Popular Mechanics** (<http://www.popularmechanics.com/science/animals/a23923/newly-discovered-spider-looks-just-like-a-leaf/>)
- **IFL Science** (<http://www.iflscience.com/plants-and-animals/new-species-spider-looks-like-leaf/>)

Selected coverage of the 2016 *Scientific Reports* paper:

- **The Washington Post** ([https://www.washingtonpost.com/news/speaking-of-science/wp/2016/05/06/its-better-to-give-these-male-spiders-perform-oral-sex-up-to-100-times-a-night/?postshare=31462537066386&tid=ss\\_tw](https://www.washingtonpost.com/news/speaking-of-science/wp/2016/05/06/its-better-to-give-these-male-spiders-perform-oral-sex-up-to-100-times-a-night/?postshare=31462537066386&tid=ss_tw))
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