

Josefin Stiller
Postdoc
Ecology and Evolution



Postadresse:
Universitetsparken 15, 2100 København Ø
E-mail: josefin.stiller@bio.ku.dk
Telefon: +45 35 32 74 60
Web: <http://www.bio.ku.dk>, josefinstiller.com

Kvalifikationer

Marine Biology, PhD, Scripps Institution of Oceanography
1 sep. 2012 → 4 aug. 2017

Organismic Biology and Evolution, M.Sc., Humboldt Universität zu Berlin
2009 → 2012

Biology, B.Sc., Freie Universität Berlin
2006 → 2009

Ansættelse

Adjunkt

Ecology and Evolution
Københavns Universitet
København Ø, Danmark
31 aug. 2017 → nu

Publikationer

A region of suppressed recombination misleads neoavian phylogenomics

Mirarab, S., Rivas-González, I., Feng, S., Stiller, Josefin, Fang, Q., Mai, U., Hickey, G., Chen, G., Brajuka, N., Fedrigo, O., Formenti, G., Wolf, J. B. W., Howe, K., Antunes, A., Schierup, M. H., Paten, B., Jarvis, E. D., KU, thw266 & Braun, E. L., 1 apr. 2024, I: Proceedings of the National Academy of Sciences. 121, 15, 10 s., e2319506121.

Complexity of avian evolution revealed by family-level genomes

Stiller, J., Feng, S., Chowdhury, A.-A., Rivas-González, I., Duchêne, D. A., Fang, Q., Deng, Y., Kozlov, A., Stamatakis, A., Claramunt, S., Nguyen, J. M. T., Ho, S. Y. W., Faircloth, B. C., Haag, J., Houde, P., Cracraft, J., Balaban, M., Mai, U., Chen, G., Gao, R. & 32 flere, Zhou, C., Xie, Y., Huang, Z., Cao, Z., Yan, Z., Ogilvie, H. A., Nakhleh, L., Lindow, Bent Erik Kramer, Morel, B., Fjeldså, Jon, Hosner, Peter Andrew, Rodrigues da Fonseca, Rute Andreia, Petersen, Bent, Tobias, J. A., Székely, T., Kennedy, J. D., Hart Reeve, A., Liker, A., Stervander, M., Antunes, A., Tietze, D. T., Bertelsen, Mads Frost, Lei, F., Rahbek, Carsten, Graves, G. R., Schierup, M. H., Warnow, T., Braun, E. L., Gilbert, M Thomas P, Jarvis, E. D., Mirarab, S. & KU, thw266, 1 apr. 2024, (E-pub ahead of print) I: Nature. 30 s.

ClockstarX: Testing Molecular Clock Hypotheses With Genomic Data

Duchene, David, Duchêne, S., Stiller, Josefin, Heller, Rasmus & Ho, S. Y. W., 2024, I: Genome Biology and Evolution. 16, 4, 7 s., evae064.

Xyloplax princealberti (Asteroidea, Echinodermata): A New Species That Is Not Always Associated with Wood Falls

Payne, C. Y., Tilic, E., Boschen-Rose, R. E., Gannon, A., Stiller, Josefin, Hiley, A. S., Grupe, B. M., Mah, C. L. & Rouse, G. W., 2023, I: Diversity. 15, 12, 21 s., 1212.

ClockstarX: testing molecular clock hypotheses with genomic data

Duchene, David, Duchêne, S., Stiller, Josefin, Heller, Rasmus & Ho, S. Y. W., 2023, bioRxiv, 15 s.

Confusion will be my epitaph: genome-scale discordance stifles phylogenetic resolution of Holothuroidea

Koch, N. M., Tilic, E., Miller, A. K., Stiller, Josefin & Rouse, G. W., 2023, I: Proceedings of the Royal Society B: Biological Sciences. 290, 2002, 11 s., 20230988.

Evolution of the germline mutation rate across vertebrates

Bergeron, Lucie Adrienne, Besenbacher, S., Zheng, J., Li, P., Bertelsen, Mads Frost, Quintard, B., Hoffman, J. I., Li, Z., Leger, J. S., Shao, C., Stiller, Josefin, Gilbert, M Thomas P, Schierup, M. H. & KU, thw266, 2023, I: Nature. 615, s. 285-291

Molecular exploration of fossil eggshell uncovers hidden lineage of giant extinct bird

Grealy, A., Miller, G. H., Phillips, M. J., Clarke, S. J., Fogel, M., Patalwala, D., Rigby, P., Hubbard, A., Demarchi, B., Collins, Matthew James, Mackie, Meaghan, Sakalauskaite, J., Stiller, Josefin, Clarke, J. A., Legendre, L. J., Douglass, K., Hansford, J., Haile, J. & Bunce, M., 2023, I: Nature Communications. 14, 14 s., 914.

Range-wide population genomics of common seadragons shows secondary contact over a former barrier and insights on illegal capture

Stiller, Josefin, Wilson, N. G. & Rouse, G., 2023, I: BMC Biology. 21, 17 s., 129.

The European Reference Genome Atlas: piloting a decentralised approach to equitable biodiversity genomics

Mc Cartney, A. M., Formenti, G., Mouton, A., Panis, D. D., Marins, L. S., Leitão, H. G., Diedericks, G., Kirangwa, J., Morselli, M., Salces-Ortiz, J., Escudero, N., Iannucci, A., Natali, C., Svardal, H., Fernández, R., Pooter, T. D., Joris, G., Strazisar, M., Wood, J., Herron, K. E. & 30 flere, Seehausen, O., Watts, P. C., Shaw, F., Davey, R. P., Minotto, A., Fernández, J. M., Böhne, A., Alegria, C., Alioto, T., Alves, P. C., Amorim, I. R., Aury, J., Backstrom, N., Baldrian, P., Baltrunaite, L., Barta, E., Bed'Hom, B., Belser, C., Bergsten, J., Bertrand, L., Bilandžija, H., Binzer-Panchal, M., Bista, I., Blaxter, M., Borges, P. A., Dias, G. B., Bosse, M., Garg, S., Madsen, O. & Stiller, Josefin, 2023, 51 s. (bioRxiv).

Whole-genomes from the extinct Xerces Blue butterfly can help identify declining insect species

de-Dios, T., Fonsere, Claudia, Renom, P., Stiller, Josefin, Llovera, L., Uliano-Silva, M., Sánchez-Gracia, A., Wright, C., Lizano, E., Caballero, B., Navarro, A., Civit, S., Robbins, R. K., Blaxter, M., Marquès-Bonet, T., Vila, R. & Lalueza-Fox, C., 2023, (Acceptor/In press) I: eLife. 19 s.

Ancient proteins resolve controversy over the identity of *Genyornis* eggshell

Demarchi, B., Stiller, Josefin, Grealy, A., Mackie, Meaghan, Deng, Y., Gilbert, M Thomas P, Clarke, J., Legendre, L. J., Boano, R., Sicheritz-Pontén, Thomas, Magee, J., KU, thw266, Bunce, M., Collins, Matthew James & Miller, G., 2022, I: PNAS. 119, 43, 9 s., e2109326119.

Confusion will be my epitaph: Genome-scale discordance stifles phylogenetic resolution of Holothuroidea

Koch, N. M., Tilic, E., Miller, A. K., Stiller, Josefin & Rouse, G. W., 2022, bioRxiv, 42 s.

Epistatic Effects Between Amino Acid Insertions and Substitutions Mediate Toxin resistance of Vertebrate Na⁺, K⁺-ATPases

Mohammadi, S., Özdemir, H. İ., Ozbek, P., Sumbul, F., Stiller, Josefin, Deng, Y., Crawford, A. J., Rowland, H., Storz, J., Andolfatto, P. & Dobler, S., 2022, I: Molecular Biology and Evolution. 39, 12, 13 s., msac258.

Phylogenomic analyses of mud dragons (Kinorhyncha)

Herranz, Maria, Stiller, Josefin, Worsaae, Katrine & Sørensen, Martin Vinther, 2022, I: Molecular Phylogenetics and Evolution. 168, 10 s., 107375.

Phylogenomic analysis of Syngnathidae reveals novel relationships, origins of endemic diversity and variable diversification rates

Stiller, Josefin, Short, G., Hamilton, H., Saarman, N., Longo, S., Wainwright, P., Rouse, G. W. & Simison, W. B., 2022, I: BMC Biology. 20, 1, 75.

Phylogenomics resolves ambiguous relationships within Aciculata (Errantia, Annelida)

Tilic, E., Stiller, Josefin, Campos, E., Pleijel, F. & Rouse, G. W., 2022, I: Molecular Phylogenetics and Evolution. 166, 10 s., 107339.

Multiple origins of a frameshift insertion in a mitochondrial gene in birds and turtles

Andreu-Sánchez, S., Chen, W., Stiller, Josefin & KU, thw266, 2021, I: *GigaScience*. 10, 1, 11 s., g1aa161.

Using UCEs to track the influence of sea-level change on leafy seadragon populations

Stiller, Josefin, Rodrigues da Fonseca, Rute Andreia, Alfaro, M. E., Faircloth, B. C., Wilson, N. G. & Rouse, G. W., 2021, I: *Molecular Ecology*. s. 1364-1380

An Indo-Pacific Humpback Dolphin Genome Reveals Insights into Chromosome Evolution and the Demography of a Vulnerable Species

Zhang, P., Zhao, Y., Li, C., Lin, M., Dong, L., Zhang, R., Liu, M., Li, K., Zhang, H., Liu, X., Zhang, Y., Yuan, Y., Liu, H., Seim, I., Sun, S., Du, X., Chang, Y., Li, F., Liu, S., Lee, S. M. Y. & 13 flere, Wang, K., Wang, D., Wang, X., McGowen, M. R., Jefferson, T. A., Olsen, Morten Tange, Stiller, Josefin, KU, thw266, Xu, X., Yang, H., Fan, G., Liu, X. & Li, S., 2020, I: *iScience*. 23, 10, 52 s., 101640.

Dense sampling of bird diversity increases power of comparative genomics

Feng, S., Stiller, J., Deng, Y., Armstrong, J., Fang, Q., Hart Reeve, A., Xie, D., Chen, G., Guo, C., Faircloth, B. C., Petersen, B., Wang, Z., Zhou, Q., Diekhans, M., Chen, W., Andreu-Sánchez, S., Margaryan, A., Howard, J. T., Parent, C., Pacheco, G. & 130 flere, Sinding, Mikkel Holger Strander, Puetz, Lara Christine, Cavill, Emily Louisa, Ribeiro, Á. M., Eckhart, L., Fjeldså, Jon, Hosner, Peter Andrew, Brumfield, R. T., Christidis, L., Bertelsen, Mads Frost, Sicheritz-Pontén, Thomas, Tietze, D. T., Robertson, B. C., Song, G., Borgia, G., Claramunt, S., Lovette, I. J., Cowen, S. J., Njoroge, P., Dumbacher, J. P., Ryder, O. A., Fuchs, J., Bunce, M., Burt, D. W., Cracraft, J., Meng, G., Hackett, S. J., Ryan, P. G., Jønsson, Knud Andreas, Jamieson, I. G., Rodrigues da Fonseca, Rute Andreia, Braun, E. L., Houde, P., Mirarab, S., Suh, A., Hansson, B., Ponnikas, S., Sigeman, H., Stervander, M., Frandsen, P. B., van der Zwan, H., van der Sluis, R., Visser, C., Balakrishnan, C. N., Clark, A. G., Fitzpatrick, J. W., Bowman, R., Chen, N., Cloutier, A., Sackton, T. B., Edwards, S. V., Foote, D. J., Shakya, S. B., Sheldon, F. H., Vignal, A., Soares, A. E. R., Shapiro, B., González-Solís, J., Ferrer-Obiol, J., Rozas, J., Riutort, M., Tigano, A., Friesen, V., Dalén, L., Urrutia, A. O., Székely, T., Liu, Y., Campana, M. G., Corvelo, A., Fleischer, R. C., Rutherford, K. M., Gemmel, N. J., Dussex, N., Mouritsen, H., Thiele, N., Delmore, K., Liedvogel, M., Franke, A., Hoepfner, M. P., Krone, O., Fudickar, A. M., Milá, B., Ketterson, E. D., Fidler, A. E., Friis, G., Parody-Merino, Á. M., Battley, P. F., Cox, M. P., Lima, N. C. B., Prosdocimi, F., Parchman, T. L., Schlinger, B. A., Loiselle, B. A., Blake, J. G., Lim, H. C., Day, L. B., Fuxjager, M. J., Baldwin, M. W., Braun, M. J., Wirthlin, M., Dikow, R. B., Ryder, T. B., Camenisch, G., Keller, L. F., Dacosta, J. M., Hauber, M. E., Louder, M. I. M., Witt, C. C., McGuire, J. A., Mudge, J., Megna, L. C., Carling, M. D., Wang, B., Taylor, S. A., Del-Rio, G., Aleixo, A., Vasconcelos, A. T. R., Mello, C. V., Weir, J. T., Haussler, D., Li, Q., Yang, H., Wang, J., Lei, F., Rahbek, Carsten, Gilbert, M Thomas P, Graves, G. R., Jarvis, E. D., Paten, B. & KU, thw266, 2020, I: *Nature*. 587, 7833, s. 252-257

Evolutionary History, Genomic Adaptation to Toxic Diet, and Extinction of the Carolina Parakeet

Gelabert, P., Sandoval-Velasco, M., Serres, A., de Manuel, M., Renom, P., Margaryan, A., Stiller, J., de-Dios, T., Fang, Q., Feng, S., Mañosa, S., Pacheco, G., Ferrando-Bernal, M., Shi, G., Hao, F., Chen, X., Petersen, B., Olsen, R-A., Navarro, A., Deng, Y. & 6 flere, Dalén, L., Marquès-Bonet, T., KU, thw266, Antunes, A., Gilbert, M Thomas P & Lalueza-Fox, C., 2020, I: *Current Biology*. 30, 1, s. 108-114, e1-e5

More is needed — Thousands of loci are required to elucidate the relationships of the ‘flowers of the sea’ (Sabellida, Annelida)

Tilic, E., Sayyari, E., Stiller, Josefin, Mirarab, S. & Rouse, G. W., 2020, I: *Molecular Phylogenetics and Evolution*. 9 s., 106892.

Progressive Cactus is a multiple-genome aligner for the thousand-genome era

Armstrong, J., Hickey, G., Diekhans, M., Fiddes, I. T., Novak, A. M., Deran, A., Fang, Q., Xie, D., Feng, S., Stiller, J., Genereux, D., Johnson, J., Marinescu, V. D., Alföldi, J., Harris, R. S., Lindblad-Toh, K., Haussler, D., Karlsson, E., Jarvis, E. D., Zhang, G. & 1 flere, Paten, B., 2020, I: *Nature*. 587, 7833, s. 246-251

Spaghetti to a Tree: A Robust Phylogeny for Terebelliformia (Annelida) Based on Transcriptomes, Molecular and Morphological Data

Stiller, Josefin, Tilic, E., Rousset, V., Pleijel, F. & Rouse, G. W., 2020, I: *Biology*. 9, 4, 28 s., 73.

Comparative Phylogenomics, a Stepping Stone for Bird Biodiversity Studies

Stiller, Josefin & KU, thw266, 2019, I: *Diversity*. 11, 7, 19 s., 115.

Between Hot Rocks and Dry Places: The Status of the Dixie Valley Toad

Forrest, M. J., Stiller, Josefin, King, T. L. & Rouse, G. W., jul. 2017, I: Western North American Naturalist. 77, 2, s. 162-175

Barriers to gene flow in common seadragons (Syngnathidae: *Phyllopteryx taeniolatus*)

Wilson, N. G., Stiller, Josefin & Rouse, G. W., 2017, I: Conservation Genetics. 18, 1, s. 53-66

Do ampharetids take sedimented steps between vents and seeps? Phylogeny and habitat-use of Ampharetidae (Annelida, Terebelliformia) in chemosynthesis-based ecosystems

Eilertsen, M. H., Kongsrud, J. A., Alvestad, T., Stiller, Josefin, Rouse, G. W. & Rapp, H. T., 2017, I: BMC Evolutionary Biology. 17, 15 s., 222.

First live records of the ruby seadragon (*Phyllopteryx dewysea*, Syngnathidae)

Rouse, G. W., Stiller, Josefin & Wilson, N. G., 2017, I: Marine Biodiversity Records. 10, 4 s., 2.

The Leafy Seadragon, *Phycodurus eques*, a Flagship Species with Low But Structured Genetic Variability

Stiller, Josefin, Wilson, N. G., Donnellan, S. & Rouse, G. W., 2017, I: Journal of Heredity. 108, 2, s. 152-162

A spectacular new species of seadragon (Syngnathidae)

Stiller, Josefin, Wilson, N. G. & Rouse, G., 2015, I: Royal Society Open Science. 2, 2, 12 s., 140458.

Phylogeny, biogeography and systematics of hydrothermal vent and methane seep *Amphisamytha* (Ampharetidae, Annelida), with descriptions of three new species

Stiller, Josefin, Rousset, V., Pleijel, F., Chevaldonne, P., Vrijenhoek, R. C. & Rouse, G. W., 2013, I: Systematics and Biodiversity. 11, 1, s. 35-65

Can insect egg deposition 'warn' a plant of future feeding damage by herbivorous larvae?

Beyaert, I., Köpke, D., Stiller, Josefin, Hammerbacher, A., Yoneya, K., Schmidt, A., Gershenzon, J. & Hilker, M., 2012, I: Proceedings of the Royal Society B: Biological Sciences. 279, 1726, s. 101-108