

Archibald Lab publications (January 2025)

188. Blais, C., Colp, M. J., Sarre, L. A., de Mendoza, A. & **Archibald, J. M.** 2024. Epigenetic silencing and host genome dynamics determine the fate of giant viral endogenizations in *Acanthamoeba*. Submitted. Biorxiv pre-print doi: 10.1101/2024.10.31.621330.

187. Colp, M. J., Blais, C., Curtis, B. A., & **Archibald, J. M.** 2024. Fate of artificial transgenes in *Acanthamoeba castellanii*. Submitted. Biorxiv pre-print doi: 10.1101/2024.10.29.620921.

186. Chung, D., Brask, N., Matar, S., Gallot-Lavallée, L., Pringle, E. Duguay, B., Blais, C., Slamovits, C. H., Leyland, B., Rest, J. S., Collier, J. L., McCormick, C., & **Archibald, J. M.** 2024. Persistent mirusvirus infection in the marine protist *Aurantiochytrium*. Submitted. Research Square preprint: doi: 10.21203/rs.3.rs-5686297/v1.

185. Sibbald, S. J., Lawton, M., Maclean, C., Roger, A. J., & **Archibald, J. M.** Pangenome biology and evolution in harmful algal-bloom-forming pelagophyte algae. Biorxiv pre-print doi: 10.1101/2024.10.30.620910.

184. Richards, T. A., Eme, L., **Archibald, J. M.**, Leonard, G., Coelho, S. M., de Mendoza, A., Dessimoz, C., Dolezal, P., Fritz-Laylin, L. K., Gabaldon, T., Hampl, V., Kops, G. J. P. L., Leger, M. M., Lopez-Garcia, P., McInerney, J. O., Moreira, D., Munoz-Gomez, A., Richter, D. J., Ruiz-Tillo, I., Santoro, A. E., Sebe-Pedros, A., Snel, B., Stairs, C. W., Tromer, E. C., van Hooff, J. J. E., Wickstead, B., Williams, T. A., Roger, A. J., Dacks, J. B., & Wideman, J. G. 2024. Consensus view: reconstructing the last common ancestor of all eukaryotes. *PLOS Biol.* 22 (11): e3002917.

183. LaRoche, J. & Archibald, J. M. 2024. Marine microbiology: how to evolve a nitrogen-fixing organelle. *Curr. Biol.* 34, R826-R829.

182. Schvarcz, C. R., Stancheva, R., Turk-Kubo, K. A., Wilson, S. T., Zehr, J. P., Edwards, K. F., Steward, G. F., **Archibald, J. M.**, Oatley, G., Sinclair, E., Aunin, E., Gettle, N., Santos, C., Paulini, M., McKenna, V., O'Brien, R., Niu, H., Wellcome Sanger Institute Tree of Life Management, Samples and Laboratory Team, Wellcome Sanger Institute Scientific Operations: Sequencing Operations, Wellcome Sanger Institute Tree of Life Core Informatics Team, EBI Aquatic Symbiosis Genomics Data Portal Team, Aquatic Symbiosis Genomics Project Leadership. 2024. The genome sequences of the marine diatom *Epithemia pelagica* strain UHM3201 (Schvarcz, Stancheva & Steward, 2022) and its nitrogen-fixing, endosymbiotic cyanobacterium. *Wellcome Open Res.* 9:232.

181. Kantor, E. J. H., Robicheau, B., Tolman, J., **Archibald, J. M.**, and LaRoche, J. 2024. Targeted metagenomics reveals pangenomic diversity of the nitroplast (UCYN-A) and its algal host plastid. *ISME Comm.* 4(1): ycae150.

180. Bougon, J., Kadijk, E.C., Gallot-Lavallée, L., Curtis, B.A., Landers, M., **Archibald, J.M.** & Khapersky, D. A. 2024. Influenza A virus NS1 effector domain is required for PA-X mediated host shutoff in infected cells. *J. Virol.* 98, e01901-23.

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177. **Archibald, J.M.** 2024. Symbiotic revolutions at the interface of genomics and microbiology. *PLOS Biol.* 22:e3002581.
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173. [Zhang, X.](#), Hu, Y., Cheng, Z. & **Archibald, J. M.** 2023. HSDecipher: A pipeline for comparative genomic analysis of highly similar duplicate genes in eukaryotic genomes. *STAR Protocols.* 4, 102014.
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169. Kim, J. I., Jo, B. Y., Park, M. G., Yoo, Y. D., Shin, W., & **Archibald, J. M.** 2022. Evolutionary dynamics and lateral gene transfer in raphidophycean plastid genomes. *Frontiers Plant Sci.* 13, doi:10.3389/fpls.2022. 896138.

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167. Lawniczak, M. K. N., Durbin, R., Flicek, P., Lindblad-Toh, K., Wei, X., **Archibald, J. M.**, Baker, W. J., Belov, K., Blaxter, M. L., Marques Bonet, T., Childers, A. K., Coddington, J. A., Crandall, K. A., Crawford, A. J., Davey, R. P., Di Palma, F., Fang, Q., Haerty, W., Hall, N., Hoff, K. J., Howe, K., Jarvis, E. D., Johnson W. E., Johnson, R. N., Kersey, P. J., Liu, X., Lopez, J. V., Myers, E. W., Pettersson, O. V., Phillippy, A. M., Poelchau, M. F., Pruitt, K. D., Rhie, A., Castilla-Rubio, J. C., Sahu, S. K., Salmon, N. A., Soltis, P. S., Swarbreck, D., Thibaud-Nissen, F., Wang, S., Wegrzyn, J. L., Zhang, G., Zhang, H., Lewin, H. A., Richards, S. 2022. Standards recommendations for the Earth BioGenome Project. *Proc. Natl. Acad. Sci. USA*. 119, 4 e2115636118.

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165. Lewin, H. A., Richards, S., Lieberman Aiden, E., Allende, M. L., **Archibald, J. M.**, Bálint, M., Barker, K. B., Baumgartner, B., Belov, K., Bertorelle, G., Blaxter, M.L., Cai, J., Caperello, N. D., Carlson, K., Castilla-Rubio, J. C., Chaw, S. M., Chen, L., Childers, A. K., Coddington, J. A., Conde, D. A., Corominas, M., Crandall, K. A., Crawford, A. J., DiPalma, F., Durbin, R., Ebenezer, T. E., Edwards, S. V., Fedrigo, O., Flicek, P., Formenti, G., Gibbs, R. A., Gilbert, M. T. P., Goldstein, M. M., Graves, J. M., Greely, H. T., Grigoriev, I. V., Hackett, K. J., Hall, N., Haussler, D., Helgen, K. M., Hogg, C. J., Isobe, S., Jakobsen, K. S., Janke, A., Jarvis, E. D., Johnson, W. E., Jones, S. J. M., Karlsson, E. K., Kersey, P. J., Kim, J. H., Kress, W. J., Kuraku, S., Lawniczak, M. K. N., Leebens-Mack, J. H., Li, X., Lindblad-Toh, K., Liu, X., Lopez, J. V., Marques-Bonet, T., Mazard, S., Mazet, J. A. K., Mazzoni, C. J., Myers, E. W., O'Neill, R. J., Paez, S., Park, H., Robinson, G. E., Roquet, C., Ryder, O. A., Sabir, J. S. M., Shaffer, H. B., Shank, T. M., Sherkow, J. S., Soltis, P. S., Tang, B., Tedersoo, L., Uliano-Silva, M., Wang, K., Wei, X., Wetzler, R., Wilson, J. L., Xu, X., Yang, H., Yoder, A. D., Zhang, G. 2022. The Earth BioGenome Project 2020: starting the clock. *Proc. Natl. Acad. Sci. USA*. 119, 4 e2115636118.

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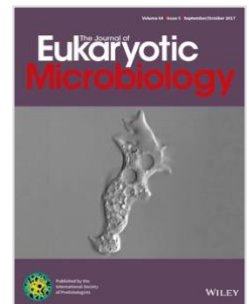
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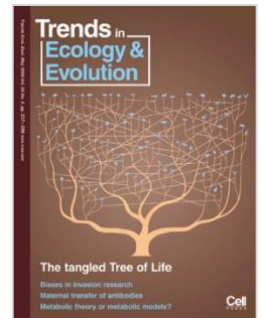
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