

Washington University in St. Louis

## Washington University Open Scholarship

---

Biology Department Bibliographies

Biology

---

9-9-2024

### Biology Department Publications: 2008

Sam Lindgren

Washington University in St. Louis, lindgrens@wustl.edu

Follow this and additional works at: [https://openscholarship.wustl.edu/bio\\_biblio](https://openscholarship.wustl.edu/bio_biblio)



Part of the [Biology Commons](#)

---

#### Recommended Citation

Lindgren, Sam, "Biology Department Publications: 2008" (2024). *Biology Department Bibliographies*. 9. [https://openscholarship.wustl.edu/bio\\_biblio/9](https://openscholarship.wustl.edu/bio_biblio/9)

This Bibliography is brought to you for free and open access by the Biology at Washington University Open Scholarship. It has been accepted for inclusion in Biology Department Bibliographies by an authorized administrator of Washington University Open Scholarship. For more information, please contact [digital@wumail.wustl.edu](mailto:digital@wumail.wustl.edu).

## Biology Department Publications: 2008

- Allen, G. E. (2008a). Carson, Hampton Lawrence. In *New Dictionary of Scientific Biography* (pp. 59–64). Gale.
- Allen, G. E. (2008b). Genetics, history of. In J. H. Moore (Ed.), *Encyclopedia of Race and Racism* (pp. 34–40). Macmillan.
- Allen, G. E. (2008c). Hamburger, Viktor. In *New Dictionary of Scientific Biography* (pp. 216–225). Gale.
- Allen, G. E. (2008d). Rebel with two causes: Hans driesch. In O. Harman & M. R. Dietrich (Eds.), *Rebels, mavericks, and heretics in biology* (pp. 37–64). Yale University Press.
- Aponte, J. C., Estevez, Y., Gilman, R. H., Lewis, W. H., Rojas, R., Sauvain, M., Vaisberg, A. J., & Hammond, G. B. (2008). Anti-infective and cytotoxic compounds present in *blepharodon nitidum*. *Planta Medica*, 74(4), 407–410. <https://doi.org/10.1055/s-2008-1034330>
- Aponte, J. C., Vaisberg, A. J., Rojas, R., Caviedes, L., Lewis, W. H., Lamas, G., Sarasara, C., Gilman, R. H., & Hammond, G. B. (2008). Isolation of cytotoxic metabolites from targeted peruvian amazonian medicinal plants. *Journal of Natural Products*, 71(1), 102–105. <https://doi.org/10.1021/np070560c>
- Arkus, K. A. J., & Jez, J. M. (2008). An integrated protein chemistry laboratory: Chlorophyll and chlorophyllase. *Biochemistry and Molecular Biology Education*, 36(2), 125–128. <https://doi.org/10.1002/bmb.20156>

## 2 Biology Department Publications: 2008

Baker, D. V., & Beck, K. G. (2008). The weed tunnel: Building an experimental wind tunnel.

*Weed Technology*, 22(3), 549–552. <https://doi.org/10.1614/WT-07-162.1>

Bawa, K. S., Balachander, G., & Raven, P. (2008). A case for new institutions. *Science*,

319(5860), 136. <https://doi.org/10.1126/science.1151835>

Beachy, R. N. (2008). Plant biotechnology and agriculture: Is there a role for public sector scientists? [Meeting abstract]. *Phytopathology*, 98, S3.

Beachy, R. N., Fedoroff, N. V., Goldberg, R. B., & McHughen, A. (2008). The burden of proof:

A response to Rosi-Marshall et al. *Proceedings of the National Academy of Sciences*, 105, E9–E11.

Beck, J. B., Schmutts, H., & Schaal, B. A. (2008). Native range genetic variation in *Arabidopsis*

*thaliana* is strongly geographically structured and reflects pleistocene glacial dynamics.

*Molecular Ecology*, 17(3), 902–915. <https://doi.org/10.1111/j.1365-294X.2007.03615.x>

Bekaert, S., Storozhenko, S., Mehrshahi, P., Bennett, M. J., Lambert, W., Gregory, J. F.,

Schubert, K., Hugenholtz, J., Van Der Straeten, D., & Hanson, A. D. (2008). Folate biofortification in food plants. *Trends in Plant Science*, 13(1), 28–35.

<https://doi.org/10.1016/j.tplants.2007.11.001>

Bercovici, S., Geiger, D., Shlush, L., Skorecki, K., & Templeton, A. (2008). Panel construction

for mapping in admixed populations via expected mutual information. *Genome Research*, 18(4), 661–667. <https://doi.org/10.1101/gr.073148.107>

Berg, R. H., & Beachy, R. N. (2008). Fluorescent protein applications in plants. *Methods in Cell*

*Biology*, 85, 153–177. [https://doi.org/10.1016/S0091-679X\(08\)85008-X](https://doi.org/10.1016/S0091-679X(08)85008-X)

### 3 Biology Department Publications: 2008

- Bergman, T. J., Phillips-Conroy, J. E., & Jolly, C. J. (2008). Behavioral variation and reproductive success of male baboons (*papio anubis* x *papio hamadryas*) in a hybrid social group. *American Journal of Primatology*, *70*(2), 136–147.  
<https://doi.org/10.1002/ajp.20467>
- Bollen, W. S., Gunn, B. M., Mo, H., Lay, M. K., & Curtiss, R. (2008). Presence of wild-type and attenuated salmonella enterica strains in brain tissues following inoculation of mice by different routes. *Infection and Immunity*, *76*(7), 3268–3272.  
<https://doi.org/10.1128/IAI.00244-08>
- Brudvig, L. A. (2008). Large-scale experimentation and oak regeneration. *Forest Ecology and Management*, *255*(7), 3017–3018. <https://doi.org/10.1016/j.foreco.2008.02.006>
- Brudvig, L. A., & Asbjornsen, H. (2008). Patterns of oak regeneration in a midwestern savanna restoration experiment. *Forest Ecology and Management*, *255*(7), 3019–3025.  
<https://doi.org/10.1016/j.foreco.2007.11.017>
- Brudvig, L. A., & Mabry, C. M. (2008). Trait-based filtering of the regional species pool to guide understory plant reintroductions in midwestern oak savannas, u.s.a. *Restoration Ecology*, *16*(2), 290–304. <https://doi.org/10.1111/j.1526-100X.2007.00317.x>
- Buchko, G. W., Robinson, H., Pakrasi, H. B., & Kennedy, M. A. (2008). Insights into the structural variation between pentapeptide repeat proteins: Crystal structure of Rfr23 from cyanothecce 51142. *Journal of Structural Biology*, *162*(1), 184–192.  
<https://doi.org/10.1016/j.jsb.2007.11.008>

#### 4 Biology Department Publications: 2008

- Burns, J. H. (2008). Demographic performance predicts invasiveness of species in the commelinaceae under high-nutrient conditions. *Ecological Applications*, 18(2), 335–346. <https://doi.org/10.1890/07-0568.1>
- Burns, J. H., Munguia, P., Nomann, B. E., Braun, S. J., Terhorst, C. P., & Miller, T. E. (2008). Vegetative morphology and trait correlations in 54 species of commelinaceae. *Botanical Journal of the Linnean Society*, 158(2), 257–268. <https://doi.org/10.1111/j.1095-8339.2008.00909.x>
- Carlson, B. A. (2008). Phantoms in the brain: Ambiguous representations of stimulus amplitude and timing in weakly electric fish. *Journal of Physiology-Paris*, 102(4–6), 209–222. <https://doi.org/10.1016/j.jphysparis.2008.10.010>
- Chalker, D. L. (2008a). Ciliate biology: Dynamin goes nuclear. *Current Biology*, 18(19), R923–925. <https://doi.org/10.1016/j.cub.2008.07.080>
- Chalker, D. L. (2008b). Dynamic nuclear reorganization during genome remodeling of tetrahymena. *Biochimica Et Biophysica Acta*, 1783(11), 2130–2136. <https://doi.org/10.1016/j.bbamcr.2008.07.012>
- Chen, H., Zhang, J., Neff, M. M., Hong, S.-W., Zhang, H., Deng, X.-W., & Xiong, L. (2008). Integration of light and abscisic acid signaling during seed germination and early seedling development. *Proceedings of the National Academy of Sciences of the United States of America*, 105(11), 4495–4500. <https://doi.org/10.1073/pnas.0710778105>
- Chen, M., Zhang, Y., & Blankenship, R. E. (2008). Nomenclature for membrane-bound light-harvesting complexes of cyanobacteria. *Photosynthesis Research*, 95(2–3), 147–154. <https://doi.org/10.1007/s11120-007-9255-0>

## 5 Biology Department Publications: 2008

- Cole, E. S., Anderson, P. C., Fulton, R. B., Majerus, M. E., Rooney, M. G., Savage, J. M., Chalker, D., Honts, J., Welch, M. E., Wentland, A. L., Zweifel, E., & Beussman, D. J. (2008). A proteomics approach to cloning fenestrin from the nuclear exchange junction of tetrahymena. *The Journal of Eukaryotic Microbiology*, 55(4), 245–256.  
<https://doi.org/10.1111/j.1550-7408.2008.00337.x>
- Collin-Osdoby, P., Uveges, T. E., Cabral, W. A., Goldberg, L., Gronowicz, G. A., Osdoby, P., & Marini, J. C. (2008). Increased osteoclasts in brtl mouse model for osteogenesis imperfecta are independent of decreased osteoblast matrix production and rankl/opg ratio, but are associated with increased osteoclast precursors in marrow [meeting abstract]. *Journal of Bone and Mineral Research*, 23, S292.
- Conroy, C. J., & Neuwald, J. L. (2008). Phylogeographic study of the california vole, *Microtus californicus*. *Journal of Mammalogy*, 89(3), 755–767. <https://doi.org/10.1644/07-MAMM-A-189R1.1>
- Dai, S., Wei, X., Alfonso, A. A., Pei, L., Duque, U. G., Zhang, Z., Babb, G. M., & Beachy, R. N. (2008). Transgenic rice plants that overexpress transcription factors RF2a and RF2b are tolerant to rice tungro virus replication and disease. *Proceedings of the National Academy of Sciences of the United States of America*, 105(52), 21012–21016.  
<https://doi.org/10.1073/pnas.0810303105>
- Damschen, E. I., Brudvig, L. A., Haddad, N. M., Levey, D. J., Orrock, J. L., & Tewksbury, J. J. (2008). The movement ecology and dynamics of plant communities in fragmented landscapes. *Proceedings of the National Academy of Sciences of the United States of America*, 105(49), 19078–19083. <https://doi.org/10.1073/pnas.0802037105>

6 Biology Department Publications: 2008

Dittmer, T. A., & Richards, E. J. (2008). Role of LINC proteins in plant nuclear morphology.

*Plant Signaling & Behavior*, 3(7), 485–487. <https://doi.org/10.4161/psb.3.7.5682>

Ertter, B., & Lewis, W. H. (2008). New rosa (rosaceae) in california and oregon. *Madroño*,

55(2), 170–177. [https://doi.org/10.3120/0024-9637\(2008\)55\[170:NRRICA\]2.0.CO;2](https://doi.org/10.3120/0024-9637(2008)55[170:NRRICA]2.0.CO;2)

Freeman, G. M., Webb, A. B., An, S., & Herzog, E. D. (2008). For whom the bells toll:

Networked circadian clocks. *Sleep and Biological Rhythms*, 6(2), 67–75.

<https://doi.org/10.1111/j.1479-8425.2008.00344.x>

Gao, F., & Zhang, C.-T. (2008). Origins of replication in cyanothecce 51142. *Proceedings of the*

*National Academy of Sciences of the United States of America*, 105(52), E125; author

reply E126-127. <https://doi.org/10.1073/pnas.0809987106>

Gifford, M. E. (2008). Divergent character clines across a recent secondary contact zone in a

hispaniolan lizard. *Journal of Zoology*, 274(3), 292–300. [https://doi.org/10.1111/j.1469-](https://doi.org/10.1111/j.1469-7998.2007.00385.x)

[7998.2007.00385.x](https://doi.org/10.1111/j.1469-7998.2007.00385.x)

Gifford, M. E., & Larson, A. (2008). In situ genetic differentiation in a hispaniolan lizard

(*Ameiva chrysoleuca*): A multilocus perspective. *Molecular Phylogenetics and*

*Evolution*, 49(1), 277–291. <https://doi.org/10.1016/j.ympev.2008.06.003>

Gifford, M., Herrel, A., & Mahler, D. L. (2008). The evolution of locomotor morphology,

performance, and anti-predator behavior among populations of *Leiocephalus* lizards from

the dominican republic. *Biological Journal of the Linnean Society*, 93, 445–456.

<https://doi.org/10.1111/j.1095-8312.2007.00909.x>

## 7 Biology Department Publications: 2008

Gu, C. C., Yu, K., Ketkar, S., Templeton, A. R., & Rao, D. C. (2008). On transferability of genome-wide tagSNPs. *Genetic Epidemiology*, 32(2), 89–97.

<https://doi.org/10.1002/gepi.20269>

Guo, W.-J., & Ho, T.-H. (2008). An abscisic acid-induced protein, hva22, inhibits gibberellin-mediated programmed cell death in cereal aleurone cells. *Plant Physiology*, 147(4),

1710–1722. <https://doi.org/10.1104/pp.108.120238>

Haeusser, D. P., & Levin, P. A. (2008). The great divide: Coordinating cell cycle events during bacterial growth and division. *Current Opinion in Microbiology*, 11(2), 94–99.

<https://doi.org/10.1016/j.mib.2008.02.008>

Halsey, M., Olsen, K., Taylor, N., & Chavarriaga, P. (2008). Reproductive biology of cassava (*manihot esculenta crantz*) and isolation of experimental field trials. *Crop Science*, 48.

Hargrove, E., Kalin, M., Raven, P., & Mooney, H. (2008). Omora Ethnobotanical Park and the UNESCO Cape Horn Biosphere Reserve. *Ecology and Society*, 13.

<https://doi.org/10.5751/ES-02747-130249>

Harmon, L. J., Melville, J., Larson, A., & Losos, J. B. (2008). The role of geography and ecological opportunity in the diversification of day geckos (*phelsuma*). *Systematic Biology*, 57(4), 562–573.

<https://doi.org/10.1080/10635150802304779>

Haswell, E. S., Peyronnet, R., Barbier-Brygoo, H., Meyerowitz, E. M., & Frachisse, J.-M. (2008). Two mscs homologs provide mechanosensitive channel activities in the arabidopsis root. *Current Biology*, 18(10), 730–734.

<https://doi.org/10.1016/j.cub.2008.04.039>



## 8 Biology Department Publications: 2008

- Hohmann-Marriott, M. F., & Blankenship, R. E. (2008). Anoxygenic type-I photosystems and evolution of photosynthetic reaction centers. In P. Fromme (Ed.), *Photosynthetic Protein Complexes* (pp. 295–324). Wiley.
- Holland, L. Z., Albalat, R., Azumi, K., Benito-Gutiérrez, E., Blow, M. J., Bronner-Fraser, M., Brunet, F., Butts, T., Candiani, S., Dishaw, L. J., Ferrier, D. E. K., Garcia-Fernández, J., Gibson-Brown, J. J., Gissi, C., Godzik, A., Hallböök, F., Hirose, D., Hosomichi, K., Ikuta, T., ... Holland, P. W. H. (2008). The amphioxus genome illuminates vertebrate origins and cephalochordate biology. *Genome Research*, *18*(7), 1100–1111.  
<https://doi.org/10.1101/gr.073676.107>
- Horton, A. C., Mahadevan, N. R., Minguillon, C., Osoegawa, K., Rokhsar, D. S., Ruvinsky, I., de Jong, P. J., Logan, M. P., & Gibson-Brown, J. J. (2008). Conservation of linkage and evolution of developmental function within the *tbx2/3/4/5* subfamily of t-box genes: Implications for the origin of vertebrate limbs. *Development Genes and Evolution*, *218*(11–12), 613–628. <https://doi.org/10.1007/s00427-008-0249-5>
- Ji, W., & Suga, N. (2008). Tone-specific and nonspecific plasticity of the auditory cortex elicited by pseudoconditioning: Role of acetylcholine receptors and the somatosensory cortex. *Journal of Neurophysiology*, *100*(3), 1384–1396. <https://doi.org/10.1152/jn.90340.2008>
- Johnson, M. A., Leal, M., Schettino, L. R., Lara, A. C., Revell, L. J., & Losos, J. B. (2008). A phylogenetic perspective on foraging mode evolution and habitat use in west indian anolis lizards. *Animal Behaviour*, *75*, 555–563.
- Jones, P. A., Archer, T. K., Baylin, S. B., Beck, S., Berger, S., Bernstein, B. E., Carpten, J. D., Clark, S. J., Costello, J. F., Doerge, R. W., Esteller, M., Feinberg, A. P., Gingeras, T. R.,

## 9 Biology Department Publications: 2008

- Greally, J. M., Henikoff, S., Herman, J. G., Jackson-Grusby, L., Jenuwein, T., Jirtle, R. L., ... Wu, C. (2008). Moving AHEAD with an international human epigenome project. *Nature*, 454(7205), 711–715. <https://doi.org/10.1038/454711a>
- Joo, S., Liu, Y., Lueth, A., & Zhang, S. (2008). MAPK phosphorylation-induced stabilization of acs6 protein is mediated by the non-catalytic c-terminal domain, which also contains the cis-determinant for rapid degradation by the 26S proteasome pathway. *The Plant Journal: For Cell and Molecular Biology*, 54(1), 129–140. <https://doi.org/10.1111/j.1365-313X.2008.03404.x>
- Khandelwal, A., Elvitigala, T., Ghosh, B., & Quatrano, R. S. (2008). Arabidopsis transcriptome reveals control circuits regulating redox homeostasis and the role of an ap2 transcription factor. *Plant Physiology*, 148(4), 2050–2058. <https://doi.org/10.1104/pp.108.128488>
- Knight, T. M., Barfield, M., & Holt, R. D. (2008). Evolutionary dynamics as a component of stage-structured matrix models: An example using trillium grandiflorum. *The American Naturalist*, 172(3), 375–392. <https://doi.org/10.1086/589898>
- Kolbe, J., Colbert, P., & Smith, B. (2008). Niche relationships and interspecific interactions in antiguan lizard communities. *Copeia*, 2008, 261–272. <https://doi.org/10.1643/CE-07-011>
- Kolbe, J. J., Larson, A., Losos, J. B., & de Queiroz, K. (2008). Admixture determines genetic diversity and population differentiation in the biological invasion of a lizard species. *Biology Letters*, 4(4), 434–437. <https://doi.org/10.1098/rsbl.2008.0205>
- Kong, W., Wanda, S.-Y., Zhang, X., Bollen, W., Tinge, S. A., Roland, K. L., & Curtiss, R. (2008). Regulated programmed lysis of recombinant salmonella in host tissues to release protective antigens and confer biological containment. *Proceedings of the National*

*Academy of Sciences of the United States of America*, 105(27), 9361–9366.

<https://doi.org/10.1073/pnas.0803801105>

Larson, A. (2008). Macroevolution. In *AccessScience*. McGraw-Hill Companies.

Lee, J.-H., Lin, H., Joo, S., & Goodenough, U. (2008). Early sexual origins of homeoprotein heterodimerization and evolution of the plant knox/bell family. *Cell*, 133(5), 829–840.

<https://doi.org/10.1016/j.cell.2008.04.028>

Lewis, W. H. (2008a). (1859) Proposal to conserve the name *rosa virginiana* mill. Against *r. Virginiana* herrm. (Rosaceae). *Taxon*, 57, 1363–1364.

Lewis, W. H. (2008b). *Rosa carolina* (rosaceae) subspecies and hybrids in eastern and midwestern united states, canada, and mexico. *Novon*, 18(2), 192–198.

Liberton, M., & Pakrasi, H. B. (2008). Membrane systems in cyanobacteria. In E. Flores & A. Herrero (Eds.), *The cyanobacteria: Molecular biology, genomics and evolution*. Horizon Scientific Press.

Lopatto, D., Alvarez, C., Barnard, D., Chandrasekaran, C., Chung, H.-M., Du, C., Eckdahl, T., Goodman, A. L., Hauser, C., Jones, C. J., Kopp, O. R., Kuleck, G. A., McNeil, G., Morris, R., Myka, J. L., Nagengast, A., Overvoorde, P. J., Poet, J. L., Reed, K., ... Elgin, S. C. R. (2008). Undergraduate research. Genomics education partnership. *Science*, 322(5902), 684–685. <https://doi.org/10.1126/science.1165351>

Lough, A. N., Roark, L. M., Kato, A., Ream, T. S., Lamb, J. C., Birchler, J. A., & Newton, K. J. (2008). Mitochondrial dna transfer to the nucleus generates extensive insertion site variation in maize. *Genetics*, 178(1), 47. <https://doi.org/10.1534/genetics.107.079624>

## 11 Biology Department Publications: 2008

Ma, X., & Suga, N. (2008). Corticofugal modulation of the paradoxical latency shifts of inferior collicular neurons. *Journal of Neurophysiology*, *100*(2), 1127–1134.

<https://doi.org/10.1152/jn.90508.2008>

Macey, J. R., Kuehl, J. V., Larson, A., Robinson, M. D., Ugurtas, I. H., Ananjeva, N. B., Rahman, H., Javed, H. I., Osman, R. M., Doumma, A., & Papenfuss, T. J. (2008). Socotra island the forgotten fragment of gondwana: Unmasking chameleon lizard history with complete mitochondrial genomic data. *Molecular Phylogenetics and Evolution*, *49*(3), 1015–1018. <https://doi.org/10.1016/j.ympev.2008.08.024>

Malone, C. D., Falkowska, K. A., Li, A. Y., Galanti, S. E., Kanuru, R. C., LaMont, E. G., Mazzarella, K. C., Micev, A. J., Osman, M. M., Piotrowski, N. K., Suszko, J. W., Timm, A. C., Xu, M. M., Liu, L., & Chalker, D. L. (2008). Nucleus-specific importin alpha proteins and nucleoporins regulate protein import and nuclear division in the binucleate tetrahymena thermophila. *Eukaryotic Cell*, *7*(9), 1487–1499.

<https://doi.org/10.1128/EC.00193-08>

McDaniel, S. F., Willis, J. H., & Shaw, A. J. (2008). The genetic basis of developmental abnormalities in interpopulation hybrids of the moss *ceratodon purpureus*. *Genetics*, *179*(3), 1425–1435. <https://doi.org/10.1534/genetics.107.086314>

Morris, W. F., Pfister, C. A., Tuljapurkar, S., Haridas, C. V., Boggs, C. L., Boyce, M. S., Bruna, E. M., Church, D. R., Coulson, T., Doak, D. F., Forsyth, S., Gaillard, J. M., Horvitz, C. C., Kalisz, S., Kendall, B. E., Knight, T. M., Lee, C. T., & Menges, E. S. (2008). Longevity can buffer plant and animal populations against changing climatic variability. *Ecology*, *89*, 19–25.

## 12 Biology Department Publications: 2008

- Morrison, J. K., & Miller, K. G. (2008). Genetic characterization of the drosophila jaguar322 mutant reveals that complete myosin VI loss of function is not lethal. *Genetics*, *179*(1), 711–716. <https://doi.org/10.1534/genetics.107.085969>
- Murray, D. L., Steury, T. D., & Roth, J. D. (2008). Assessment of canada lynx research and conservation needs in the southern range: Another kick at the cat. *The Journal of Wildlife Management*, *72*(7), 1463–1472. <https://doi.org/10.2193/2007-389>
- Nedbal, L., Trtílek, M., Červený, J., Komárek, O., & Pakrasi, H. B. (2008). A photobioreactor system for precision cultivation of photoautotrophic microorganisms and for high-content analysis of suspension dynamics. *Biotechnology and Bioengineering*, *100*(5), 902–910. <https://doi.org/10.1002/bit.21833>
- Noguchi, T., Lenartowska, M., Rogat, A. D., Frank, D. J., & Miller, K. G. (2008). Proper cellular reorganization during drosophila spermatid individualization depends on actin structures composed of two domains, bundles and meshwork, that are differentially regulated and have different functions. *Molecular Biology of the Cell*, *19*(6), 2363–2372. <https://doi.org/10.1091/mbc.E07-08-0840>
- Olsen, K. M., & Gross, B. L. (2008). Detecting multiple origins of domesticated crops. *Proceedings of the National Academy of Sciences of the United States of America*, *105*(37), 13701–13702. <https://doi.org/10.1073/pnas.0807439105>
- Olsen, K. M., Hsu, S.-C., & Small, L. L. (2008). Evidence on the molecular basis of the ac/ac adaptive cyanogenesis polymorphism in white clover (*trifolium repens* l.). *Genetics*, *179*(1), 517–526. <https://doi.org/10.1534/genetics.107.080366>

### 13 Biology Department Publications: 2008

Olsen, K., & Ungerer, M. (2008). Freezing tolerance and cyanogenesis in white clover (*trifolium repens* L. Fabaceae). *International Journal of Plant Sciences*, *169*, 1141–1147.

<https://doi.org/10.1086/591984>

O’Neil-Johnson, M., Garo, E., Hu, J. F., Starks, C., Goering, M., Raven, P., & Eldridge, G. (2008). Advanced analytical technology as applied to natural products for drug discovery: Segment deux. *Planta Medica*, *74*(9), SL38. <https://doi.org/10.1055/s-0028-1083918>

Onodera, Y., Nakagawa, K., Haag, J. R., Pikaard, D., Mikami, T., Ream, T., Ito, Y., & Pikaard, C. S. (2008). Sex-biased lethality or transmission of defective transcription machinery in arabidopsis. *Genetics*, *180*(1), 207. <https://doi.org/10.1534/genetics.108.090621>

Orrock, J. L., & Allan, B. F. (2008). Sin nombre virus infection in deer mice, channel islands, california. *Emerging Infectious Diseases*, *14*(12), 1965–1966.

<https://doi.org/10.3201/eid1412.080935>

Orrock, J. L., Grabowski, J. H., Pantel, J. H., Peacor, S. D., Peckarsky, B. L., Sih, A., & Werner, E. E. (2008). Consumptive and nonconsumptive effects of predators on metacommunities of competing prey. *Ecology*, *89*(9), 2426–2435.

Orrock, J. L., Witter, M. S., & Reichman, O. J. (2008). Apparent competition with an exotic plant reduces native plant establishment. *Ecology*, *89*(4), 1168–1174.

<https://doi.org/10.1890/07-0223.1>

Pardini, E. A., & Hamrick, J. L. (2008). Inferring recruitment history from spatial genetic structure within populations of the colonizing tree *albizia julibrissin* (fabaceae).

*Molecular Ecology*, *17*(12), 2865–2879. [https://doi.org/10.1111/j.1365-](https://doi.org/10.1111/j.1365-294X.2008.03807.x)

[294X.2008.03807.x](https://doi.org/10.1111/j.1365-294X.2008.03807.x)

- Peckarsky, B. L., Abrams, P. A., Bolnick, D. I., Dill, L. M., Grabowski, J. H., Luttbeg, B., Orrock, J. L., Peacor, S. D., Preisser, E. L., Schmitz, O. J., & Trussell, G. C. (2008). Revisiting the classics: Considering nonconsumptive effects in textbook examples of predator-prey interactions. *Ecology*, *89*(9), 2416–2425. <https://doi.org/10.1890/07-1131.1>
- Perroud, P.-F., & Quatrano, R. S. (2008). Brick1 is required for apical cell growth in filaments of the moss *Physcomitrella patens* but not for gametophore morphology. *The Plant Cell*, *20*(2), 411–422. <https://doi.org/10.1105/tpc.107.053256>
- Pickard, B. G. (2008). “Second extrinsic organizational mechanism” for orienting cellulose: Modeling a role for the plasmalemmal reticulum. *Protoplasma*, *233*(1–2), 7–29. <https://doi.org/10.1007/s00709-008-0301-3>
- Pikaard, C. S., Haag, J. R., Ream, T., & Wierzbicki, A. T. (2008). Roles of RNA polymerase IV in gene silencing. *Trends in Plant Science*, *13*(7), 390. <https://doi.org/10.1016/j.tplants.2008.04.008>
- Pontes, O., & Pikaard, C. S. (2008). SiRNA and miRNA processing: New functions for cajal bodies. *Current Opinion in Genetics & Development*, *18*(2), 197. <https://doi.org/10.1016/j.gde.2008.01.008>
- Preuss, S. B., Costa-Nunes, P., Tucker, S., Pontes, O., Lawrence, R. J., Mosher, R., Kasschau, K. D., Carrington, J. C., Baulcombe, D. C., Viegas, W., & Pikaard, C. S. (2008). Multimegabase silencing in nucleolar dominance involves siRNA-directed DNA methylation and specific methylcytosine-binding proteins. *Molecular Cell*, *32*(5), 673–684. <https://doi.org/10.1016/j.molcel.2008.11.009>

- Putnam, N. H., Butts, T., Ferrier, D. E. K., Furlong, R. F., Hellsten, U., Kawashima, T., Robinson-Rechavi, M., Shoguchi, E., Terry, A., Yu, J.-K., Benito-Gutiérrez, E. L., Dubchak, I., Garcia-Fernández, J., Gibson-Brown, J. J., Grigoriev, I. V., Horton, A. C., de Jong, P. J., Jurka, J., Kapitonov, V. V., ... Rokhsar, D. S. (2008). The amphioxus genome and the evolution of the chordate karyotype. *Nature*, *453*(7198), 1064–1071. <https://doi.org/10.1038/nature06967>
- Ramula, S., Knight, T. M., Burns, J. H., & Buckley, Y. M. (2008). General guidelines for invasive plant management based on comparative demography of invasive and native plant populations. *Journal of Applied Ecology*, *45*(4), 1124–1133. <https://doi.org/10.1111/j.1365-2664.2008.01502.x>
- Rathgeber, C., Lince, M., Alric, J., Lang, A., Humphrey, E., Blankenship, R., Verméglio, A., Plumley, F., Dover, C., Beatty, J., & Yurkov, V. (2008). Vertical distribution and characterization of aerobic phototrophic bacteria at the juan de fuca ridge in the pacific ocean. *Photosynthesis Research*, *97*, 235–244. <https://doi.org/10.1007/s11120-008-9332-z>
- Raven, P. S. (2008). Biodiversity and agriculture [meeting abstract]. *Phytopathology*, *98*, S1.
- Raymond, J., & Blankenship, R. E. (2008). The origin of the oxygen-evolving complex. *Coordination Chemistry Reviews*, *252*(3–4), 377–383. <https://doi.org/10.1016/j.ccr.2007.08.026>
- Read, E. L., Schlau-Cohen, G. S., Engel, G. S., Wen, J., Blankenship, R. E., & Fleming, G. R. (2008). Visualization of excitonic structure in the fenna-matthews-olson photosynthetic



complex by polarization-dependent two-dimensional electronic spectroscopy.

*Biophysical Journal*, 95(2), 847–856. <https://doi.org/10.1529/biophysj.107.128199>

Rensing, S. A., Lang, D., Zimmer, A. D., Terry, A., Salamov, A., Shapiro, H., Nishiyama, T., Perroud, P.-F., Lindquist, E. A., Kamisugi, Y., Tanahashi, T., Sakakibara, K., Fujita, T., Oishi, K., Shin-I, T., Kuroki, Y., Toyoda, A., Suzuki, Y., Hashimoto, S.-I., ... Boore, J. L. (2008). The physcomitrella genome reveals evolutionary insights into the conquest of land by plants. *Science*, 319(5859), 64–69. <https://doi.org/10.1126/science.1150646>

Richard-Fogal, C. L., Frawley, E. R., & Kranz, R. G. (2008). Topology and function of ccmd in cytochrome c maturation. *Journal of Bacteriology*, 190(10), 3489–3493.

<https://doi.org/10.1128/JB.00146-08>

Richards, E. J. (2008). Population epigenetics. *Current Opinion in Genetics & Development*, 18(2), 221–226. <https://doi.org/10.1016/j.gde.2008.01.014>

Riddle, N. C., & Birchler, J. A. (2008). Comparative analysis of inbred and hybrid maize at the diploid and tetraploid levels. *Theoretical and Applied Genetics*, 116(4), 563–576.

<https://doi.org/10.1007/s00122-007-0691-1>

Riddle, N. C., & Elgin, S. C. R. (2008). A role for rna1 in heterochromatin formation in drosophila. *Current Topics in Microbiology and Immunology*, 320, 185–209.

[https://doi.org/10.1007/978-3-540-75157-1\\_9](https://doi.org/10.1007/978-3-540-75157-1_9)

Riddle, N. C., Leung, W., Haynes, K. A., Granok, H., Waller, J., & Elgin, S. C. R. (2008). An investigation of heterochromatin domains on the fourth chromosome of drosophila melanogaster. *Genetics*, 178(3), 1177. <https://doi.org/10.1534/genetics.107.081828>

17 Biology Department Publications: 2008

Roose, J. L., & Pakrasi, H. B. (2008). The Psb27 protein facilitates manganese cluster assembly in photosystem II. *The Journal of Biological Chemistry*, 283(7), 4044–4050.

<https://doi.org/10.1074/jbc.M708960200>

Roth, J. D., Murray, D. L., & Steury, T. D. (2008). Spatial dynamics of sympatric canids: Modeling the impact of coyotes on red wolf recovery. *Ecological Modelling*, 214(2–4), 391–403.

<https://doi.org/10.1016/j.ecolmodel.2008.03.011>

Sabri, M., Caza, M., Proulx, J., Lymberopoulos, M. H., Brée, A., Moulin-Schouleur, M., Curtiss, R., & Dozois, C. M. (2008). Contribution of the SitABCD, MntH, and FeoB metal transporters to the virulence of avian pathogenic escherichia coli O78 strain chi7122.

*Infection and Immunity*, 76(2), 601–611. <https://doi.org/10.1128/IAI.00789-07>

Sanders, C., Turkarslan, S., Lee, D.-W., Onder, O., Kranz, R. G., & Daldal, F. (2008). The cytochrome c maturation components CcmF, CcmH, and CcmI form a membrane-integral multisubunit heme ligation complex. *The Journal of Biological Chemistry*,

283(44), 29715–29722. <https://doi.org/10.1074/jbc.M805413200>

Sanger, T. J., Hime, P. M., Johnson, M. A., Diani, J., & Losos, J. B. (2008). Laboratory protocols for husbandry and embryo collection of anolis lizards. *Herpetological Review*, 39(1), 58–63.

Sanger, T. J., Losos, J. B., & Gibson-Brown, J. J. (2008). A developmental staging series for the lizard genus anolis: A new system for the integration of evolution, development, and ecology. *Journal of Morphology*, 269(2), 129–137. <https://doi.org/10.1002/jmor.10563>

Sattley, W. M., Madigan, M. T., Swingley, W. D., Cheung, P. C., Clocksin, K. M., Conrad, A. L., Dejesa, L. C., Honchak, B. M., Jung, D. O., Karbach, L. E., Kurdoglu, A., Lahiri, S.,

18 Biology Department Publications: 2008

- Mastrian, S. D., Page, L. E., Taylor, H. L., Wang, Z. T., Raymond, J., Chen, M., Blankenship, R. E., & Touchman, J. W. (2008). The genome of *heliobacterium modesticaldum*, a phototrophic representative of the firmicutes containing the simplest photosynthetic apparatus. *Journal of Bacteriology*, *190*(13), 4687–4696.  
<https://doi.org/10.1128/jb.00299-08>
- Shlush, L. I., Behar, D. M., Yudkovsky, G., Templeton, A., Hadid, Y., Basis, F., Hammer, M., Itzkovitz, S., & Skorecki, K. (2008). The druze: A population genetic refugium of the near east. *PLoS One*, *3*(5), e2105. <https://doi.org/10.1371/journal.pone.0002105>
- Singh, A. K., Bhattacharyya-Pakrasi, M., & Pakrasi, H. B. (2008). Identification of an atypical membrane protein involved in the formation of protein disulfide bonds in oxygenic photosynthetic organisms. *The Journal of Biological Chemistry*, *283*(23), 15762.  
<https://doi.org/10.1074/jbc.M800982200>
- Singh, A. K., Elvitigala, T., Bhattacharyya-Pakrasi, M., Aurora, R., Ghosh, B., & Pakrasi, H. B. (2008). Integration of carbon and nitrogen metabolism with energy production is crucial to light acclimation in the cyanobacterium *synechocystis*. *Plant Physiology*, *148*(1), 467–478. <https://doi.org/10.1104/pp.108.123489>
- Stein, P. S. G. (2008). Motor pattern deletions and modular organization of turtle spinal cord. *Brain Research Reviews*, *57*(1), 118–124.  
<https://doi.org/10.1016/j.brainresrev.2007.07.008>
- Stöckel, J., Welsh, E. A., Liberton, M., Kunnvakkam, R., Aurora, R., & Pakrasi, H. B. (2008). Global transcriptomic analysis of cyanothecce 51142 reveals robust diurnal oscillation of

19 Biology Department Publications: 2008

central metabolic processes. *Proceedings of the National Academy of Sciences of the United States of America*, 105(16), 6156–6161. <https://doi.org/10.1073/pnas.0711068105>

Strasburg, J. L., & Gross, B. L. (2008). Adapting to winter in wheat: A long-term study follows parallel phenotypic and genetic changes in three experimental wheat populations.

*Molecular Ecology*, 17(3), 716–718. <https://doi.org/10.1111/j.1365-294X.2007.03639.x>

Street, I. H., Shah, P. K., Smith, A. M., Avery, N., & Neff, M. M. (2008). The AT-hook-containing proteins SOB3/AHL29 and ESC/AHL27 are negative modulators of hypocotyl growth in arabidopsis. *The Plant Journal: For Cell and Molecular Biology*,

54(1), 1–14. <https://doi.org/10.1111/j.1365-313X.2007.03393.x>

Suga, N. (2008a). Role of corticofugal feedback in hearing. *Journal of Comparative Physiology. A, Neuroethology, Sensory, Neural, and Behavioral Physiology*, 194(2), 169–183.

*A, Neuroethology, Sensory, Neural, and Behavioral Physiology*, 194(2), 169–183.

<https://doi.org/10.1007/s00359-007-0274-2>

Suga, N. (2008b). The neural circuit for tone-specific plasticity in the auditory system elicited by conditioning. *Learning & Memory*, 15(4), 198–201; author reply 202–207.

<https://doi.org/10.1101/lm.791408>

Swingley, W. D., Blankenship, R. E., & Raymond, J. (2008a). Insights into cyanobacterial evolution from comparative genomics. In E. Flores & A. Herrero (Eds.), *The cyanobacteria: Molecular biology, genomics, and evolution* (pp. 21–44). Horizon Scientific Press.

Swingley, W. D., Blankenship, R. E., & Raymond, J. (2008b). Integrating markov clustering and molecular phylogenetics to reconstruct the cyanobacterial species tree from conserved

protein families. *Molecular Biology and Evolution*, 25(4), 643–654.

<https://doi.org/10.1093/molbev/msn034>

Swingley, W. D., Chen, M., Cheung, P. C., Conrad, A. L., Dejesa, L. C., Hao, J., Honchak, B. M., Karbach, L. E., Kurdoglu, A., Lahiri, S., Mastrian, S. D., Miyashita, H., Page, L., Ramakrishna, P., Satoh, S., Sattley, W. M., Shimada, Y., Taylor, H. L., Tomo, T., ... Touchman, J. W. (2008). Niche adaptation and genome expansion in the chlorophyll d-producing cyanobacterium *acaryochloris marina*. *Proceedings of the National Academy of Sciences*, 105, 2005–2010.

Tang, J., & Suga, N. (2008). Modulation of auditory processing by cortico-cortical feed-forward and feedback projections. *Proceedings of the National Academy of Sciences*, 105(21), 7600–7605. <https://doi.org/10.1073/pnas.0802961105>

Templeton, A. R. (2008a). Nested clade analysis: An extensively validated method for strong phylogeographic inference. *Molecular Ecology*, 17(8), 1877–1880. <https://doi.org/10.1111/j.1365-294X.2008.03731.x>

Templeton, A. R. (2008b). The reality and importance of founder speciation in evolution. *BioEssays*, 30(5), 470–479. <https://doi.org/10.1002/bies.20745>

Thole, J. M., & Nielsen, E. (2008). Phosphoinositides in plants: Novel functions in membrane trafficking. *Current Opinion in Plant Biology*, 11(6), 620–631. <https://doi.org/10.1016/j.pbi.2008.10.010>

Thole, J. M., Vermeer, J. E. M., Zhang, Y., Gadella, T. W. J., & Nielsen, E. (2008). Root hair defective4 encodes a phosphatidylinositol-4-phosphate phosphatase required for proper

root hair development in *arabidopsis thaliana*. *The Plant Cell*, 20(2), 381–395.

<https://doi.org/10.1105/tpc.107.054304>

Tobe, H., & Raven, P. H. (2008). Embryology of *koeberlinia* (koeberliniaceae): Evidence for core-brassicalean affinities. *American Journal of Botany*, 95(11), 1475–1486.

<https://doi.org/10.3732/ajb.0800218>

Toepel, J., Welsh, E., Summerfield, T. C., Pakrasi, H. B., & Sherman, L. A. (2008). Differential transcriptional analysis of the cyanobacterium *cyanoshecia* sp. Strain ATCC 51142 during light-dark and continuous-light growth. *Journal of Bacteriology*, 190(11), 3904.

<https://doi.org/10.1128/JB.00206-08>

Torke, B. M., & Schaal, B. A. (2008). Molecular phylogenetics of the species-rich neotropical genus *swartzia* (leguminosae, papilionoideae) and related genera of the swartzioide clade. *American Journal of Botany*, 95(2), 215–228. <https://doi.org/10.3732/ajb.95.2.215>

Uveges, T. E., Collin-Osdoby, P., Cabral, W. A., Ledgard, F., Goldberg, L., Bergwitz, C., Forlino, A., Osdoby, P., Gronowicz, G. A., & Marini, J. C. (2008). Cellular mechanism of decreased bone in *brtl* mouse model of oI: Imbalance of decreased osteoblast function and increased osteoclasts and their precursors. *Journal of Bone and Mineral Research*, 23(12), 1983. <https://doi.org/10.1359/JBMR.080804>

Vasalou, C., Freeman, M., Herzog, E. D., & Henson, M. A. (2008). Small world network models of intercellular coupling in the mammalian circadian clock. *AICHE100 - 2008 AIChE Annual Meeting, Conference Proceedings*. 2008 AIChE Annual Meeting, AIChE 100.

- Wallrath, L. L., & Elgin, S. C. R. (2008). Stimulating conversations between HP1a and histone demethylase dKDM4A. *Molecular Cell*, 32(5), 601–602.  
<https://doi.org/10.1016/j.molcel.2008.11.015>
- Wegener, K. M., Welsh, E. A., Thornton, L. E., Keren, N., Jacobs, J. M., Hixson, K. K., Monroe, M. E., Camp, D. G., Smith, R. D., & Pakrasi, H. B. (2008). High sensitivity proteomics assisted discovery of a novel operon involved in the assembly of photosystem II, a membrane protein complex. *The Journal of Biological Chemistry*, 283(41), 27829–27837. <https://doi.org/10.1074/jbc.m803918200>
- Welsh, E. A., Liberton, M., Stöckel, J., Loh, T., Elvitigala, T., Wang, C., Wollam, A., Fulton, R. S., Clifton, S. W., Jacobs, J. M., Aurora, R., Ghosh, B. K., Sherman, L. A., Smith, R. D., Wilson, R. K., & Pakrasi, H. B. (2008). The genome of cyanothecce 51142, a unicellular diazotrophic cyanobacterium important in the marine nitrogen cycle. *Proceedings of the National Academy of Sciences of the United States of America*, 105(39), 15094–15099.  
<https://doi.org/10.1073/pnas.0805418105>
- Welsh, E. A., Liberton, M., Stöckel, J., & Pakrasi, H. B. (2008). Reply to Zhang et al.: Identification of origins of replication in the cyanothecce 51142 genome. *Proceedings of the National Academy of Sciences of the United States of America*, 105(52), E126–E127.  
<https://doi.org/10.1073/pnas.0810681106>
- Wierzbicki, A. T., Haag, J. R., & Pikaard, C. S. (2008). Noncoding transcription by rna polymerase Pol IVb/Pol V mediates transcriptional silencing of overlapping and adjacent genes. *Cell*, 135(4), 635–648. <https://doi.org/10.1016/j.cell.2008.09.035>

Wittenberg, R. D., & Gifford, M. E. (2008). Funnel traps may be inappropriate for many studies of semi-aquatic snakes. *Journal of Freshwater Ecology*, 23, 213–218.

Woo, H. R., Dittmer, T. A., & Richards, E. J. (2008). Three sra-domain methylcytosine-binding proteins cooperate to maintain global cpg methylation and epigenetic silencing in arabidopsis. *PLoS Genetics*, 4(8), e1000156.

<https://doi.org/10.1371/journal.pgen.1000156>

Woo, H. R., & Richards, E. J. (2008a). Natural variation in dna methylation in ribosomal rna genes of arabidopsis thaliana. *BMC Plant Biology*, 8(1), 92. <https://doi.org/10.1186/1471-2229-8-92>

Woo, H. R., & Richards, E. J. (2008b). Signaling silence: Breaking ground and spreading out. *Genes & Development*, 22(13), 1719–1723. <https://doi.org/10.1101/gad.1694608>

Xu, M., Bernát, G., Singh, A., Mi, H., Rögner, M., Pakrasi, H. B., & Ogawa, T. (2008). Properties of mutants of synechocystis sp. Strain pcc 6803 lacking inorganic carbon sequestration systems. *Plant and Cell Physiology*, 49(11), 1672–1677.

<https://doi.org/10.1093/pcp/pcn139>

Xu, M., Ogawa, T., Pakrasi, H. B., & Mi, H. (2008). Identification and localization of the CupB protein involved in constitutive CO<sub>2</sub> uptake in the cyanobacterium, synechocystis sp. Strain PCC 6803. *Plant and Cell Physiology*, 49(6), 994–997.

<https://doi.org/10.1093/pcp/pcn074>

Yaniv, M., & Elgin, S. C. R. (2008). Chromosomes and expression mechanisms: Bringing together the roles of dna, rna and proteins. *Current Opinion in Genetics & Development*, 18(2), 107–108. <https://doi.org/10.1016/j.gde.2008.02.002>



Yi, H., & Richards, E. J. (2008). Phenotypic instability of arabidopsis alleles affecting a disease resistance gene cluster. *BMC Plant Biology*, 8(1), 36. [https://doi.org/10.1186/1471-2229-](https://doi.org/10.1186/1471-2229-8-36)

[8-36](https://doi.org/10.1186/1471-2229-8-36)

Zheng, X., Pontes, O., Zhu, J., Miki, D., Zhang, F., Li, W.-X., Iida, K., Kapoor, A., Pikaard, C. S., & Zhu, J.-K. (2008). ROS3 is an rna-binding protein required for dna demethylation in arabidopsis. *Nature*, 455(7217), 1259–1262. <https://doi.org/10.1038/nature07305>