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Biology Department Publications: 2003

Allen, G. E. (2003). Mendel and modern genetics: The legacy for today. *Endeavour*, 27(2), 63–68. [https://doi.org/10.1016/s0160-9327\(03\)00065-6](https://doi.org/10.1016/s0160-9327(03)00065-6)

Banerjee, S., Wei, B., Bhattacharyya-Pakrasi, M., Pakrasi, H. B., & Smith, T. J. (2003). Structural determinants of metal specificity in the zinc transport protein ZnuA from *synechocystis* 6803. *Journal of Molecular Biology*, 333(5), 1061–1069.
<https://doi.org/10.1016/j.jmb.2003.09.008>

Beachy, R. N. (2003). IP policies and serving the public. *Science*, 299(5606), 473.
<https://doi.org/10.1126/science.299.5606.473>

Bezanilla, M., Horton, A. C., Sevener, H. C., & Quatrano, R. S. (2003). Phylogenetic analysis of new plant myosin sequences. *Journal of Molecular Evolution*, 57(2), 229–239.
<https://doi.org/10.1007/s00239-003-2469-7>

Bezanilla, M., Pan, A., & Quatrano, R. S. (2003). RNA interference in the moss *physcomitrella patens*. *Plant Physiology*, 133(2), 470–474. <https://doi.org/10.1104/pp.103.024901>

Blair, L., Rothe, L., Osdoby, P., & Collin-Osdoby, P. (2003). Activation of human microvascular endothelial cells by IL-1 or TNF-alpha transendothelial migration and chemokine (SDF-1) recruitment of precursors from human peripheral blood that develop into osteoclasts. *Journal of Bone and Mineral Research*, 18 Suppl 2, S236.

2 Biology Department Publications: 2003

- Brisson, J. A., Strasburg, J. L., & Templeton, A. R. (2003). Impact of fire management on the ecology of collared lizard (*crotaphytus collaris*) populations living on the ozark plateau. *Animal Conservation*, 6(3), 247–254. <https://doi.org/10.1017/S1367943003003305>
- Browne, R., Anderson, D., White, M., & Johnson, M. (2003). Evidence for low genetic divergence among galápagos opuntia cactus species. *Noticias de Galapagos*, 62, 11–15.
- Casaretto, J., & Ho, T. D. (2003). The transcription factors HvABI5 and HvVP1 are required for the abscisic acid induction of gene expression in barley aleurone cells. *The Plant Cell*, 15(1), 271–284. <https://doi.org/10.1105/tpc.007096>
- Chandler, L. E., Bartsevich, V. V., & Pakrasi, H. B. (2003). Regulation of manganese uptake in *Synechocystis* 6803 by RfrA, a member of a novel family of proteins containing a repeated five-residues domain. *Biochemistry*, 42(18), 5508–5514.
<https://doi.org/10.1021/bi027113a>
- Chase, J., & Knight, T. (2003). Community genetics: Toward a synthesis. *Ecology*, 84, 580–582.
[https://doi.org/10.1890/0012-9658\(2003\)084\[0580:CGTAS\]2.0.CO;2](https://doi.org/10.1890/0012-9658(2003)084[0580:CGTAS]2.0.CO;2)
- Chase, J. M. (2003a). Community assembly: When should history matter? *Oecologia*, 136(4), 489–498. <https://doi.org/10.1007/s00442-003-1311-7>
- Chase, J. M. (2003b). Experimental evidence for alternative stable equilibria in a benthic pond food web. *Ecology Letters*, 6(8), 733–741. <https://doi.org/10.1046/j.1461-0248.2003.00482.x>
- Chase, J. M. (2003c). Strong and weak trophic cascades along a productivity gradient. *Oikos*, 101(1), 187–195.

3 Biology Department Publications: 2003

- Chase, J. M., & Knight, T. M. (2003). Drought-induced mosquito outbreaks in wetlands. *Ecology Letters*, 6(11), 1017–1024. <https://doi.org/10.1046/j.1461-0248.2003.00533.x>
- Chase, J. M., & Leibold, M. A. (2003). *Ecological niches: Linking classical and contemporary approaches*. University of Chicago Press.
- Chen, C.-N., Porubleva, L., Shearer, G., Svrakic, M., Holden, L. G., Dover, J. L., Johnston, M., Chitnis, P. R., & Kohl, D. H. (2003). Associating protein activities with their genes: Rapid identification of a gene encoding a methylglyoxal reductase in the yeast *saccharomyces cerevisiae*. *Yeast*, 20(6), 545–554. <https://doi.org/10.1002/yea.979>
- Cheng, Q., Fowler, R., Tam, L., Edwards, L., & Miller, S. M. (2003). The role of GlcA in the evolution of asymmetric cell division in the green alga *volvox carteri*. *Development Genes and Evolution*, 213(7), 328–335. <https://doi.org/10.1007/s00427-003-0332-x>
- Chiang, Y.-C., Schaal, B. A., Chou, C.-H., Huang, S., & Chiang, T.-Y. (2003). Contrasting selection modes at the Adh1 locus in outcrossing *miscanthus sinensis* vs. Inbreeding *miscanthus condensatus* (poaceae). *American Journal of Botany*, 90(4), 561–570. <https://doi.org/10.3732/ajb.90.4.561>
- Chilson, O. P., & Chilson, A. E. (2003). Perturbation of folding and reassociation of lactate dehydrogenase by proline and trimethylamine oxide. *European Journal of Biochemistry*, 270(24), 4823–4834. <https://doi.org/10.1046/j.1432-1033.2003.03881.x>
- Clark-Curtiss, J. E., & Haydel, S. E. (2003). Molecular genetics of *mycobacterium tuberculosis* pathogenesis. *Annual Review of Microbiology*, 57, 517–549. <https://doi.org/10.1146/annurev.micro.57.030502.090903>

4 Biology Department Publications: 2003

Clements, M., Duncan, D., & Milbrandt, J. (2003). *Drosophila NAB (dNAB) is an orphan transcriptional co-repressor required for correct CNS and eye development.*

Developmental Dynamics, 226(1), 67–81. <https://doi.org/10.1002/dvdy.10209>

Collin-Osdoby, P., Anderson, F., & Osdoby, P. (2003). Primary isolation and culture of chicken osteoclasts. In S. H. Ralston, M. H. Helfrich, & H. Miep (Eds.), *Methods in molecular medicine: Bone research protocols* (pp. 65–88). Humana Press.

Collin-Osdoby, P., Yu, X., Zheng, H., & Osdoby, P. (2003). RANKL-mediated osteoclast formation from murine RAW 264.7 cells. In S. H. Ralston & M. H. Helfrich (Eds.), *Methods in molecular medicine. Bone research protocols* (pp. 153–166). Humana Press.

Dai, S., Petruccelli, S., Ordiz, M. I., Zhang, Z., Chen, S., & Beachy, R. N. (2003). Functional analysis of RF2a, a rice transcription factor. *The Journal of Biological Chemistry*, 278(38), 36396–36402. <https://doi.org/10.1074/jbc.M304862200>

Dammann, C., Ichida, A., Hong, B., Romanowsky, S. M., Hrabak, E. M., Harmon, A. C., Pickard, B. G., & Harper, J. F. (2003). Subcellular targeting of nine calcium-dependent protein kinase isoforms from arabidopsis. *Plant Physiology*, 132(4), 1840–1848.
<https://doi.org/10.1104/pp.103.020008>

Dozois, C. M., Daigle, F., & Curtiss, R. (2003). Identification of pathogen-specific and conserved genes expressed in vivo by an avian pathogenic escherichia coli strain. *Proceedings of the National Academy of Sciences*, 100(1), 247–252.
<https://doi.org/10.1073/pnas.232686799>

Elgin, S. C. R., & Grewal, S. I. S. (2003). Heterochromatin: Silence is golden. *Current Biology*, 13(23), R895-898. <https://doi.org/10.1016/j.cub.2003.11.006>

5 Biology Department Publications: 2003

- Feissner, R., Xiang, Y., & Kranz, R. G. (2003). Chemiluminescent-based methods to detect subpicomole levels of c-type cytochromes. *Analytical Biochemistry*, 315, 90–94.
- Gibson-Brown, J. J., Osoegawa, K., McPherson, J. D., Waterston, R. H., De Jong, P. J., Rokhsar, D. S., & Holland, L. Z. (2003). A proposal to sequence the amphioxus genome submitted to the joint genome institute of the US department of energy. *Journal of Experimental Zoology Part B: Molecular and Developmental Evolution*, 300B, 5–22.
- Glor, R. E., Kolbe, J. J., Powell, R., Larson, A., & Losos, J. (2003). Phylogenetic analysis of ecological and morphological diversification in hispaniolan trunk-ground anoles (anolis cybotes group). *Evolution*, 57(10), 2383–2397. <https://doi.org/10.1111/j.0014-3820.2003.tb00250.x>
- Goodenough, U. (2003). Religious naturalism and naturalizing morality. *Zygon*, 38(1), 101–109. <https://doi.org/10.1111/1467-9744.00482>
- Goodenough, U., & Deacon, T. W. (2003). From biology to consciousness to morality. *Zygon*, 38(4), 801–819. <https://doi.org/10.1111/j.1467-9744.2003.00540.x>
- Grummt, I., & Pikaard, C. S. (2003). Epigenetic silencing of RNA polymerase I transcription. *Nature Reviews. Molecular Cell Biology*, 4(8), 641–649. <https://doi.org/10.1038/nrm1171>
- Harmon, L. J., Schulte, J. A., Larson, A., & Losos, J. B. (2003). Tempo and mode of evolutionary radiation in iguanian lizards. *Science*, 301(5635), 961–964. <https://doi.org/10.1126/science.1084786>

6 Biology Department Publications: 2003

Herzog, E. D., & Huckfeldt, R. M. (2003). Circadian entrainment to temperature, but not light, in the isolated suprachiasmatic nucleus. *Journal of Neurophysiology*, 90(2), 763–770.

<https://doi.org/10.1152/jn.00129.2003>

Hickman, C. P., Roberts, L. S., & Larson, A. (2003). *Animal diversity* (3rd ed.). McGraw Hill.

Ho, T.-H., Gómez-Cadenas, A., Zentella, R., & Casaretto, J. (2003). Crosstalk between gibberellin and abscisic acid in cereal aleurone. *Journal of Plant Growth Regulation*, 22, 185–194. <https://doi.org/10.1007/s00344-003-0026-7>

Holland, L. Z., & Gibson-Brown, J. J. (2003). The *Ciona intestinalis* genome: When the constraints are off. *BioEssays*, 25(6), 529–532. <https://doi.org/10.1002/bies.10302>

Hopmann, R., & Miller, K. G. (2003). A balance of capping protein and profilin functions is required to regulate actin polymerization in drosophila bristle. *Molecular Biology of the Cell*, 14(1), 118–128. <https://doi.org/10.1091/mbc.E02-05-0300>

Horton, A. C., Mahadevan, N. R., Ruvinsky, I., & Gibson-Brown, J. J. (2003). Phylogenetic analyses alone are insufficient to determine whether genome duplication(s) occurred during early vertebrate evolution. *Journal of Experimental Zoology Part B: Molecular and Developmental Evolution*, 299B(1), 41–53. <https://doi.org/10.1002/jez.b.40>

Huey, R. B., Gilchrist, G. W., Ward, K., Maves, L., Pepin, D., & Houle, D. (2003). Mutation accumulation, performance, fitness. *Integrative and Comparative Biology*, 43(3), 387–395. <https://doi.org/10.1093/icb/43.3.387>

7 Biology Department Publications: 2003

Ji, W., & Suga, N. (2003). Development of reorganization of the auditory cortex caused by fear conditioning: Effect of atropine. *Journal of Neurophysiology*, 90(3), 1904–1909.
<https://doi.org/10.1152/jn.00363.2003>

Johnson, G. B. (2003). *Living world* (3rd ed.). McGraw Hill.

Kang, H. Y., & Curtiss, R. (2003). Immune responses dependent on antigen location in recombinant attenuated salmonella typhimurium vaccines following oral immunization. *FEMS Immunology and Medical Microbiology*, 37(2–3), 99–104.

[https://doi.org/10.1016/S0928-8244\(03\)00063-4](https://doi.org/10.1016/S0928-8244(03)00063-4)

Kankel, M. W., Ramsey, D. E., Stokes, T. L., Flowers, S. K., Haag, J. R., Jeddeloh, J. A., Riddle, N. C., Verbsky, M. L., & Richards, E. J. (2003). Arabidopsis MET1 cytosine methyltransferase mutants. *Genetics*, 163(3), 1109–1122.

Kearney, M., Moussalli, A., Strasburg, J., Lindenmayer, D., & Moritz, C. (2003). Geographic parthenogenesis in the australian arid zone: I. A climatic analysis of the heteronotia binoei complex (gekkonidae). *Evolutionary Ecology Research*, 5, 953–976.

Kirk, D. L. (2003). Seeking the ultimate and proximate causes of volvox multicellularity and cellular differentiation. *Integrative and Comparative Biology*, 43(2), 247–253.

<https://doi.org/10.1093/icb/43.2.247>

Knouft, J. H. (2003). Convergence, divergence, and the effect of congeners on body size ratios in stream fishes. *Evolution*, 57(10), 2374–2382. <https://doi.org/10.1111/j.0014-3820.2003.tb00249.x>

8 Biology Department Publications: 2003

- Knouft, J. H., & Page, L. M. (2003). The evolution of body size in extant groups of north american freshwater fishes: Speciation, size distributions, and cope's rule. *The American Naturalist*, 161(3), 413–421. <https://doi.org/10.1086/346133>
- Knouft, J. H., Page, L. M., & Plewa, M. J. (2003). Antimicrobial egg cleaning by the fringed darter (perciformes: Percidae: Etheostoma crossopterum): Implications of a novel component of parental care in fishes. *Proceedings of the Royal Society of London. Series B: Biological Sciences*, 270(1531), 2405–2411. <https://doi.org/10.1098/rspb.2003.2501>
- Kozak, K. H. (2003). Sexual isolation and courtship behavior in salamanders of the eurycea bislineata species complex, with comments on the evolution of the mental gland and pheromone delivery behavior in the plethodontidae. *Southeastern Naturalist*, 2(2), 281–292.
- Langerhans, R. B., Layman, C. A., Langerhans, A. K., & Dewitt, T. J. (2003). Habitat-associated morphological divergence in two neotropical fish species. *Biological Journal of the Linnean Society*, 80(4), 689–698. <https://doi.org/10.1111/j.1095-8312.2003.00266.x>
- Larson, A., Weisrock, D. W., & Kozak, K. H. (2003). Phylogenetic systematics of salamanders (amphibia: Urodela), a review. In D. M. Sever (Ed.), *Reproductive biology and phylogeny of urodela* (pp. 31–108). Science Publishers.
- Lawrence, R. J., & Pikaard, C. S. (2003). Transgene-induced RNA interference: A strategy for overcoming gene redundancy in polyploids to generate loss-of-function mutations. *The Plant Journal: For Cell and Molecular Biology*, 36(1), 114–121. <https://doi.org/10.1046/j.1365-313x.2003.01857.x>

9 Biology Department Publications: 2003

- Lee, D. W., Haag, J. R., & Aramayo, R. (2003). Construction of strains for rapid homokaryon purification after integration of constructs at the histidine-3 (his-3) locus of *neurospora crassa*. *Current Genetics*, 43(1), 17–23. <https://doi.org/10.1007/s00294-002-0366-z>
- LEE, J.-T., Prasad, V., YANG, P.-T., WU, J.-F., Ho, T.-H., Charng, Y., & Chan, M.-T. (2003). Expression of arabidopsis CBF1 regulated by an ABA/stress inducible promoter in transgenic tomato confers stress tolerance without affecting yield. *Plant, Cell & Environment*, 26, 1181–1190. <https://doi.org/10.1046/j.1365-3040.2003.01048.x>
- Lee, Y. C., Lu, C. A., Casaretto, J., & Yu, S. M. (2003). An ABA-responsive bZIP protein, OsBZ8, mediates sugar repression of α-amylase gene expression. *Physiologia Plantarum*, 119(1), 78–86. <https://doi.org/10.1034/j.1399-3054.2003.00159.x>
- Lewis, W. H. (2003). Pharmaceutical discoveries based on Ethnomedicinal plants: 1985 to 2000 and beyond. *Economic Botany*, 57(1), 126–134. [https://doi.org/10.1663/0013-0001\(2003\)057\[0126:PDBOEP\]2.0.CO;2](https://doi.org/10.1663/0013-0001(2003)057[0126:PDBOEP]2.0.CO;2)
- Lewis, W. H., & Elvin-Lewis, M. (2003). *Medical botany: Plants affecting human health* (2nd ed.). Wiley.
- Losos, J. B., & Glor, R. E. (2003). Phylogenetic comparative methods and the geography of speciation. *Trends in Ecology and Evolution*, 18(5), 220–227. [https://doi.org/10.1016/S0169-5347\(03\)00037-5](https://doi.org/10.1016/S0169-5347(03)00037-5)
- Losos, J. B., Leal, M., Glor, R. E., De Queiroz, K., Hertz, P. E., Rodríguez Schettino, L., Lara, A. C., Jackman, T. R., & Larson, A. (2003). Niche lability in the evolution of a caribbean lizard community. *Nature*, 424(6948), 542–545. <https://doi.org/10.1038/nature01814>

10 Biology Department Publications: 2003

Losos, J. B., Schoener, T. W., & Spiller, D. A. (2003). Effect of immersion in seawater on egg survival in the lizard *anolis sagrei*. *Oecologia*, 137(3), 360–362.

<https://doi.org/10.1007/s00442-003-1363-8>

Lu, Q., Teare, J. M., Granok, H., Swede, M. J., Xu, J., & Elgin, S. C. R. (2003). The capacity to form H-DNA cannot substitute for GAGA factor binding to a (CT) n^* (GA) n regulatory site. *Nucleic Acids Research*, 31(10), 2483–2494. <https://doi.org/10.1093/nar/gkg369>

Ma, X., & Suga, N. (2003). Augmentation of plasticity of the central auditory system by the basal forebrain and/or somatosensory cortex. *Journal of Neurophysiology*, 89(1), 90–103.

<https://doi.org/10.1152/jn.00968.2001>

Macrini, T. E., Irschick, D. J., & Losos, J. B. (2003). Ecomorphological differences in toe pad characteristics between mainland and island anoles. *Journal of Herpetology*, 37(1), 52–58.

Mellata, M., Dho-Moulin, M., Dozois, C. M., Curtiss III, R., Brown, P. K., Arné, P., Brée, A., Desautels, C., & Fairbrother, J. M. (2003). Role of virulence factors in resistance of avian pathogenic escherichia coli to serum and in pathogenicity. *Infection and Immunity*, 71(1), 536–540. <https://doi.org/10.1128/IAI.71.1.536-540.2003>

Mellata, M., Dho-Moulin, M., Dozois, C. M., Curtiss, R., Lehoux, B., & Fairbrother, J. M. (2003). Role of avian pathogenic escherichia coli virulence factors in bacterial interaction with chicken heterophils and macrophages. *Infection and Immunity*, 71(1), 494–503. <https://doi.org/10.1128/IAI.71.1.494-503.2003>

Miller, K. G. (2003). A role for moesin in polarity. *Trends in Cell Biology*, 13(4), 165–168.

[https://doi.org/10.1016/s0962-8924\(03\)00029-1](https://doi.org/10.1016/s0962-8924(03)00029-1)

11 Biology Department Publications: 2003

Nishii, I., Ogihara, S., & Kirk, D. L. (2003). A kinesin, InvA, plays an essential role in volvox morphogenesis. *Cell*, 113(6), 743–753. [https://doi.org/10.1016/S0092-8674\(03\)00431-8](https://doi.org/10.1016/S0092-8674(03)00431-8)

Noguchi, T., & Miller, K. G. (2003). A role for actin dynamics in individualization during spermatogenesis in drosophila melanogaster. *Development*, 130(9), 1805–1816. <https://doi.org/10.1242/dev.00406>

Okunade, A. L., Bikoff, R. E., Casper, S. J., Oksman, A., Goldberg, D. E., & Lewis, W. H. (2003). Antiplasmodial activity of extracts and quassinooids isolated from seedlings of ailanthus altissima (simaroubaceae). *Phytotherapy Research*, 17(6), 675–677. <https://doi.org/10.1002/ptr.1336>

Pikaard, C. S. (2003). Nucleolar dominance. In *The encyclopdia of the human genome* (pp. 390–402). Nature Publishing Group.

Pontes, O., Lawrence, R. J., Neves, N., Silva, M., Lee, J.-H., Chen, Z. J., Viegas, W., & Pikaard, C. S. (2003). Natural variation in nucleolar dominance reveals the relationship between nucleolus organizer chromatin topology and rRNA gene transcription in arabidopsis. *Proceedings of the National Academy of Sciences*, 100(20), 11418–11423. <https://doi.org/10.1073/pnas.1932522100>

Preuss, S., & Pikaard, C. S. (2003). Targeted gene silencing in plants using RNA interference. In D. Engelke (Ed.), *RNA interference (RNAi): Nuts & bolts of RNAi technology* (pp. 23–36). DNA Press.

Richard, C. L., Tandon, A., Sloan, N. R., & Kranz, R. G. (2003). RNA polymerase subunit requirements for activation by the enhancer-binding protein rhodobacter capsulatus NtrC.

12 Biology Department Publications: 2003

The Journal of Biological Chemistry, 278(34), 31701–31708.

<https://doi.org/10.1074/jbc.M304430200>

Romberg, L., & Levin, P. A. (2003). Assembly dynamics of the bacterial cell division protein FTSZ: Poised at the edge of stability. *Annual Review of Microbiology*, 57, 125–154.

<https://doi.org/10.1146/annurev.micro.57.012903.074300>

Saez-Vasquez, J., Albert, A.-C., Earley, K., & Pikaard, C. S. (2003). Purification and transcriptional analysis of RNA polymerase I holoenzymes from broccoli (*brassica oleracea*) and frog (*xenopus laevis*). *Methods in Enzymology*, 370, 121–138.

[https://doi.org/10.1016/S0076-6879\(03\)70011-1](https://doi.org/10.1016/S0076-6879(03)70011-1)

Schaal, B. A., Gaskin, J. F., & Caicedo, A. L. (2003). Phylogeography, haplotype trees, and invasive plant species. *Journal of Heredity*, 94(3), 197–204.

<https://doi.org/10.1093/jhered/esg060>

Schulte, J. A., Melville, J., & Larson, A. (2003). Molecular phylogenetic evidence for ancient divergence of lizard taxa on either side of wallace's line. *Proceedings of the Royal Society B: Biological Sciences*, 270(1515), 597–603.

<https://doi.org/10.1098/rspb.2002.2272>

Schulte, J. A., Valladares, J. P., & Larson, A. (2003). Phylogenetic relationships within iguanidae inferred using molecular and morphological data and a phylogenetic taxonomy of iguanian lizards. *Herpetologica*, 59(3), 399–419.

Shaffer, C. D., Stephens, G. E., Slawson, E. E., Thompson, B., Cenci, G., Gatti, M., & Elgin, S. C. R. (2003). Functional relationship of heterochromatin protein 1 and heterochromatin protein 2 in drosophila. *FASEB Journal*, 17 Suppl, A189.

13 Biology Department Publications: 2003

Simpson, C. L., Haynes, K. A., Collins, L. I., & Elgin, S. C. R. (2003). Jumping in the genome: Using P-elements to map DNA packaging, domains of the *drosophila melanogaster* fourth chromosome. *FASEB Journal, 17 Suppl*, A1011.

Slawson, E. E., Shaffer, C. D., Thompson, B. A., Bernat, J. A., Stephens, G. E., & Elgin, S. C. R. (2003). Examining motifs in *drosophila* heterochromatin protein 2 (hp2). *FASEB Journal, 17 Suppl*, A186.

Stein, P. S. G., & Arbib, M. A. (2003). Scratch reflex. In *The handbook of brain theory and neural networks* (2nd ed., pp. 999–1001). MIT Press.

Stein, P. S. G., & Daniels-McQueen, S. (2003). Timing of knee-related spinal neurons during fictive rostral scratching in the turtle. *Journal of Neurophysiology, 90*(6), 3585–3593.

<https://doi.org/10.1152/jn.00762.2003>

Suga, N. (2003). Echolocation: Cochleotopic and computational maps. In M. A. Arbib (Ed.), *Handbook of braintheory and neural networks* (2nd ed., pp. 381–386). MIT Press.

Suga, N., & Ma, X. (2003). Multiparametric corticofugal modulation and plasticity in the auditory system. *Nature Reviews. Neuroscience, 4*(10), 783–794.

<https://doi.org/10.1038/nrn1222>

Suga, N., Ma, X., Gao, E., Sakai, M., & Choudhury, S. A. (2003). Descending system and plasticity for auditory signal processing: Neuroethological data for speech scientists. *Speech Communication, 41*, 189–200.

Swiatek, M., Regel, R. E., Meurer, J., Wanner, G., Pakrasi, H. B., Ohad, I., & Herrmann, R. G. (2003). Effects of selective inactivation of individual genes for low-molecular-mass

14 Biology Department Publications: 2003

subunits on the assembly of photosystem II, as revealed by chloroplast transformation: The psbEFLJoperon in *nicotiana tabacum*. *Molecular Genetics and Genomics*, 268(6), 699–710. <https://doi.org/10.1007/s00438-002-0791-1>

Tian, W., & Skolnick, J. (2003). How well is enzyme function conserved as a function of pairwise sequence identity? *Journal of Molecular Biology*, 333(4), 863–882.

<https://doi.org/10.1016/j.jmb.2003.08.057>

Turk, E. M., Fujioka, S., Seto, H., Shimada, Y., Takatsuto, S., Yoshida, S., Denzel, M. A., Torres, Q. I., & Neff, M. M. (2003). CYP72B1 inactivates brassinosteroid hormones: An intersection between photomorphogenesis and plant steroid signal transduction. *Plant Physiology*, 133(4), 1643–1653. <https://doi.org/10.1104/pp.103.030882>

Van Gelder, R. N., Herzog, E. D., Schwartz, W. J., & Taghert, P. H. (2003). Circadian rhythms: In the loop at last. *Science*, 300(5625), 1534–1535.

<https://doi.org/10.1126/science.1085446>

Van Zandt, P. A., Tobler, M. A., Mouton, E., Hasenstein, K. H., & Mopper, S. (2003). Positive and negative consequences of salinity stress for the growth and reproduction of the clonal plant, *iris hexagona*. *Journal of Ecology*, 91(5), 837–846. <https://doi.org/10.1046/j.1365-2745.2003.00806.x>

Van Zandt, P., & Mopper, S. (2003). The effects of maternal salinity and seed environment on germination and growth in *iris hexagona*. *Evolutionary Ecology Research*, 6.

Van Zandt, P., Townsend, J., Victor, Carlton, C., Blackwell, M., & Mopper, S. (2003). *Loberus impressus* (LeConte) (coleoptera: Erotylidae) fungal associations and presence in the seed

15 Biology Department Publications: 2003

capsules of *iris hexagona*. *The Coleopterists Bulletin*, 57, 281–288.

<https://doi.org/10.1649/553>

Vernoud, V., Horton, A. C., Yang, Z., & Nielsen, E. (2003). Analysis of the small GTPase gene superfamily of arabidopsis. *Plant Physiology*, 131(3), 1191–1208.

<https://doi.org/10.1104/pp.013052>

Weart, R. B., & Levin, P. A. (2003). Growth rate-dependent regulation of medial FtsZ ring formation. *Journal of Bacteriology*, 185(9), 2826–2834.

<https://doi.org/10.1128/JB.185.9.2826-2834.2003>

Wegman, J. S., Dwarka, A., Holzer, M., Lye, W.-K., Reed, M. L., Herzog, E. D., & Blalock, T. N. (2003). Transimpedance mode CMOS microelectrode array for in-vitro neuronal activity recording. *Materials Research Society Symposium - Proceedings*, 773, 143–148.

Wen-Luan, W. U., Schaal, B. A., Hwang, C. Y., Hwang, M. D., Chiang, Y. U. C., & Chiang, T. Y. (2003). Characterization and adaptive evolution of α -tubulin genes in the miscanthus sinensis complex (poaceae). *American Journal of Botany*, 90(10), 1513–1521.

<https://doi.org/10.3732/ajb.90.10.1513>

Whiting, M. F., Bradler, S., & Maxwell, T. (2003). Loss and recovery of wings in stick insects. *Nature*, 421(6920), 264–267. <https://doi.org/10.1038/nature01313>

Williams, S. M., & Templeton, A. R. (2003). Race and genomics. *The New England Journal of Medicine*, 348(25), 2581–2582; author reply 2581-2582.

<https://doi.org/10.1056/NEJM200306193482521>

16 Biology Department Publications: 2003

- Yu, X., Collin-Osdoby, P., & Osdoby, P. (2003). SDF-1 increases recruitment of osteoclast precursors by upregulation of matrix metalloproteinase-9 activity. *Connective Tissue Research*, 44(SUPPL. 1), 79–84. <https://doi.org/10.1080/03008200390152133>
- Yu, X., Huang, Y., Collin-Osdoby, P., & Osdoby, P. (2003a). Stromal cell-derived factor-1 (SDF-1) recruits osteoclast precursors by inducing chemotaxis, matrix metalloproteinase-9 (MMP-9) activity, and collagen transmigration. *Journal of Bone and Mineral Research*, 18(8), 1404–1418. <https://doi.org/10.1359/jbmr.2003.18.8.1404>
- Yu, X., Huang, Y., Collin-Osdoby, P., & Osdoby, P. (2003b). TGF beta 1 upregulates CXCR4 expression in osteoclasts (OC): A possible mechanism to enhance OC survival and bone resorption [abstract]. *Journal of Bone and Mineral Research*, 18, S234.
- Zheng, H., Yu, X., Collin-Osdoby, P., & Osdoby, P. (2003). RANKL induced iNOS/NO acts as a negative feedback inhibitor during osteoclastogenesis via an NF-kB and IFN-beta-ERK-Stat1 signaling pathway [abstract]. *Journal of Bone and Mineral Research*, 18, S237.