

CURRICULUM VITAE

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POSITION: Professor of Biology
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EDUCATION:

Purdue University	B.A.	1966	Biology
University of California, Irvine	Predoc	1968-70	Developmental Genetics
Case Western Reserve University	Ph.D.	1970	Developmental Genetics
Harvard University	Postdoc	1970-71	Molecular Genetics

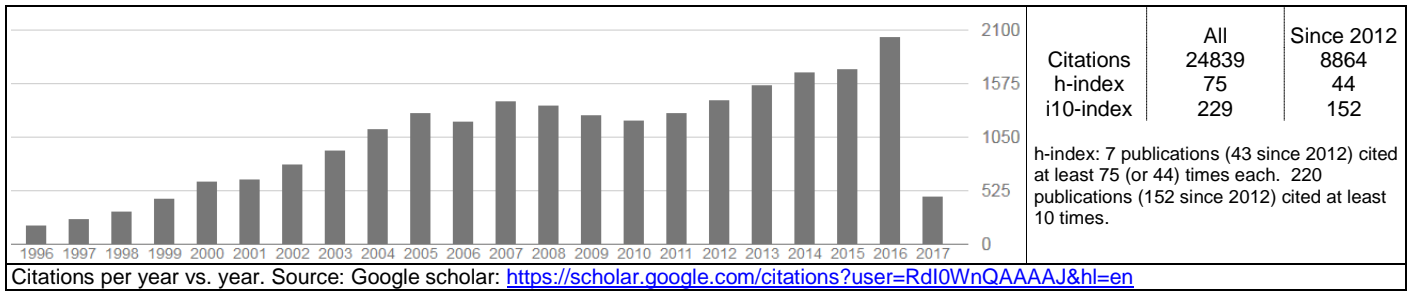
RESEARCH AND PROFESSIONAL EXPERIENCE:

1971-1977	Assistant Professor of Biology, University of Oregon
1977-1981	Associate Professor of Biology, University of Oregon
1977-1978	Visiting Research Scientist, Institute for Molecular Biology, Austrian Academy of Sciences, Salzburg, Austria
1981-present	Professor of Biology, University of Oregon
1982-1983	Visiting Research Scientist, CNRS, Laboratory of Eukaryotic Molecular Genetics, Strasbourg, France
1987-present	Affiliate, Institute of Molecular Biology, University of Oregon
1989-1990	Visiting Research Scientist, Imperial Cancer Research Fund, Oxford University, Oxford, Great Britain
1990-present	Member, Institute of Neuroscience, University of Oregon
2009	Visiting Researcher, Biozentrum, Universität Würzburg, Germany

AWARDS AND HONORS:

1966	Phi Beta Kappa, Purdue University
1974-1979	Research Career Development Award, National Institutes of Health
1979	Recipient, Ersted Distinguished Teaching Award, University of Oregon
1988	Fellow of the American Association for the Advancement of Science
1997	Recipient, Kezer Distinguished Teacher Award, Biology Department, University of Oregon
2000	Distinguished Alumnus Award, Purdue University
2001	Distinguished Alumnus Award, Jefferson High School, Lafayette, Indiana
2007	Medical Research Foundation Discovery Award
2007	Oregon Discovers Achievement Award
2009	Humbolt Research Award, Germany
2015	George W. Beadle Award, Genetics Society of America
2016	University of Oregon Outstanding Career Award, Research Excellence

PUBLICATIONS (2008 –2017)



2017

1. Lu Y, Boswell M, Boswell W, Kneitz S, Hausmann M, Klotz B, Regneri J, Savage M, Amores A, **Postlethwait J**, Warren W, Schartl M, Walter R. (2017) [Molecular genetic analysis of the melanoma regulatory locus in *Xiphophorus interspecies hybrids*](#). Mol Carcinog. 2017 Mar 27. doi: 10.1002/mc.22651. [Epub ahead of print]
2. Granneman JG, Kimler VA, Zhang H, Ye X, Luo X, **Postlethwait JH**, Thummel R. (2017) [Lipid droplet biology and evolution illuminated by the characterization of a novel perilipin in teleost fish](#). Elife. 6:e21771. doi: 10.7554/eLife.21771. PMC5342826.
3. Chao HT, Davids M, Burke E, Pappas JG, Rosenfeld JA, McCarty AJ, Davis T, Wolfe L, Toro C, Tifft C, Xia F, Stong N, Johnson TK, Warr CG; Undiagnosed Diseases Network., Yamamoto S, Adams DR, Markello TC, Gahl WA, Bellen HJ, Wangler MF, Malicdan MC. [A Syndromic Neurodevelopmental Disorder Caused by De Novo Variants in EBF3](#). Am J Hum Genet. 2017 Jan 5;100(1):128-137. PMC5223093
4. Gardell AM, von Hippel FA, Adams EM, Dillon DM, Petersen AM, **Postlethwait JH**, Cresko WA, Buck CL. (2017) [Exogenous iodide ameliorates perchlorate-induced thyroid phenotypes in threespine stickleback](#). Gen Comp Endocrinol. 243:60-69. PMC5318228.
5. Suarez-Bregua P, Torres-Nuñez E, Saxena A, Guerreiro P, Braasch I, Prober DA, Moran P, Cerda-Reverter JM, Du SJ, Adrio F, Power DM, Canario AV, **Postlethwait JH**, Bronner ME, Cañestro C, Rotllant J. (2017) [Pth4, an ancient parathyroid hormone lost in eutherian mammals, reveals a new brain-to-bone signaling pathway](#). FASEB J. 31:569-583. PMC5240660

2016

6. Sukeena JM, Galicia CA, Wilson JD, McGinn T, Boughman JW, Robison BD, **Postlethwait JH**, Braasch I, Stenkamp DL, Fuerst PG. (2016) [Characterization and Evolution of the Spotted Gar Retina](#). J Exp Zool B Mol Dev Evol. 2016 Nov 9. doi: 10.1002/jez.b.22710. [Epub ahead of print]
7. Böhne A, Wilson CA, **Postlethwait JH**, Salzburger W. (2016) [Variations on a theme: Genomics of sex determination in the cichlid fish *Astatotilapia burtoni*](#). BMC Genomics. 2016 Nov 7;17(1):883.
8. Bertho S, Pasquier J, Pan Q, Le Trionnaire G, Bobe J, **Postlethwait JH**, Pailhoux E, Schartl M, Herpin A, Guiguen Y. (2016) [Foxl2 and Its Relatives Are Evolutionary Conserved Players in Gonadal Sex Differentiation](#). Sex Dev. 2016;10(3):111-29. doi: 10.1159/000447611.
9. Postlethwait JH, Yan YL, Desvignes T, Allard C, Titus T, Le François NR, Detrich HW 3rd. (2016) [Embryogenesis and early skeletogenesis in the Antarctic Bullhead notothen, *Notothenia coriiceps*](#). Dev Dyn. 2016 Aug 10. doi: 10.1002/dvdy.24437. [Epub ahead of print]
10. Schartl M, Kneitz S, Roco A, Kottler VA, Anderson J, Schories S, Nanda I, Schmid M, Volf J-N, Postlethwait JH, Guiguen Y. (2016) Molecular Differentiation Markers for the Analyses of Sex Determination Diversity and Sex Chromosome Evolution in Fish M. [Cytogenet Genome Res](#). 148:83-155. doi: 10.1159/000446523.
11. Askary A, Smeeton J, Paul S, Schindler S, Braasch I, Ellis NA, Postlethwait J, Miller, CT, Crump JG. (2016) [Ancient origin of lubricated joints in bony vertebrates](#). eLife 2016;5:e16415.
12. Petersen AM, Earp NC, Redmond ME, Postlethwait JH, von Hippel FA, Buck CL, Cresko WA. (2016) [Perchlorate Exposure Reduces Primordial Germ Cell Number in Female Threespine Stickleback](#). PLoS One. 2016 Jul 6;11(7):e0157792. doi: 10.1371/journal.pone.0157792. eCollection 2016.
13. Pan Q, Anderson J, Bertho S, Herpin A, Wilson C, Postlethwait JH, Schartl M, Guiguen Y. (2016) [Vertebrate sex-determining genes play musical chairs](#). C R Biol. 2016 Jul-Aug;339(7-8):258-62. doi: 10.1016/j.crv.2016.05.010. Epub 2016 Jun 10.

14. Talbot JC, Nichols JT, Yan YL, Leonard IF, BreMiller RA, Amacher SL, Postlethwait JH, Kimmel CB. (2016) [Pharyngeal morphogenesis requires fras1-itga8-dependent epithelial-mesenchymal interaction.](#) Dev Biol. 2016 Jun 2. pii: S0012-1606(16)30105-1. doi: 10.1016/j.ydbio.2016.05.035. [Epub ahead of print]
15. Braasch I, Gehrke AR, Smith JJ, Kawasaki K, Manousaki T, Pasquier J, Amores A, Desvignes T, Batzel P, Catchen J, Berlin AM, Campbell MS, Barrell D, Martin KJ, Mulley JF, Ravi V, Lee AP, Nakamura T, Chalopin D, Fan S, Wcisel D, Cañestro C, Sydes J, Beaudry FE, Sun Y, Hertel J, Beam MJ, Fasold M, Ishiyama M, Johnson J, Kehr S, Lara M, Letaw JH, Litman GW, Litman RT, Mikami M, Ota T, Saha NR, Williams L, Stadler PF, Wang H, Taylor JS, Fontenot Q, Ferrara A, Searle SM, Aken B, Yandell M, Schneider I, Yoder JA, Volff JN, Meyer A, Amemiya CT, Venkatesh B, Holland PW, Guiguen Y, Bobe J, Shubin NH, Di Palma F, Alfo Ldi J, Lindblad-Toh K, Postlethwait JH. (2016) [Corrigendum: The spotted gar genome illuminates vertebrate evolution and facilitates human-teleost comparisons.](#) Nat Genet. 2016 May 27;48(6):700. doi: 10.1038/ng0616-700c.
16. Pasquier J, Cabau C, Nguyen T, Jouanno E, Severac D, Braasch I, Journot L, Pontarotti P, Klopp C7, Postlethwait JH, Guiguen Y, Bobe J. (2016) [Gene evolution and gene expression after whole genome duplication in fish: the PhyloFish database.](#) BMC Genomics. 2016 May 18;17(1):368. doi: 10.1186/s12864-016-2709-z.
17. Kneitz S, Mishra RR, Chalopin D, Postlethwait J, Warren WC, Walter RB, Schartl M. (2016) [Germ cell and tumor associated piRNAs in the medaka and Xiphophorus melanoma models.](#) BMC Genomics. 2016 May 17;17(1):357. doi: 10.1186/s12864-016-2697-z.
18. Desvignes T, Detrich HW 3rd, Postlethwait JH. (2016) [Genomic conservation of erythropoietic microRNAs \(erythromiRs\) in white-blooded Antarctic icefish.](#) Mar Genomics. 2016 May 14. pii: S1874-7787(16)30037-X. doi: 10.1016/j.margen.2016.04.013. [Epub ahead of print].
19. Braasch I, Gehrke AR, Smith JJ, Kawasaki K, Manousaki T, Pasquier J, Amores A, Desvignes T, Batzel P, Catchen J, Berlin AM, Campbell MS, Barrell D, Martin KJ, Mulley JF, Ravi V, Lee AP, Nakamura T, Chalopin D, Fan S, Wcisel D, Cañestro C, Sydes J, Beaudry FE, Sun Y, Hertel J2, Beam MJ, Fasold M, Ishiyama M, Johnson J, Kehr S, Lara M8, Letaw JH, Litman GW, Litman R, Mikami M, Ota T, Saha NR, Williams L, Stadler PF, Wang H, Taylor JS, Fontenot Q, Ferrara A, Searle SM, Aken B, Yandell M, Schneider I, Yoder JA, Volff JN, Meyer A, Amemiya CT, Venkatesh B, Holland PW, Guiguen Y, Bobe J, Shubin NH, Di Palma F, Alföldi J, Lindblad-Toh K, Postlethwait JH. (2016) [The spotted gar genome illuminates vertebrate evolution and facilitates human-teleost comparisons.](#) Nat Genet. 2016 Apr;48(4):427-37. doi: 10.1038/ng.3526. Epub 2016 Mar 7.
20. Kanamori A, Sugita Y, Yuasa Y, Suzuki T, Kawamura K, Uno Y, Kamimura K, Matsuda Y, Wilson CA, Amores A, Postlethwait JH, Suga K, Sakakura Y. (2016) [A Genetic Map for the Only Self-Fertilizing Vertebrate.](#) G3 (Bethesda). 2016 Apr 7;6(4):1095-106. doi: 10.1534/g3.115.022699.
21. Shen Y, Chalopin D, Garcia T, Boswell M, Boswell W, Shiryev SA, Agarwala R, Volff JN, Postlethwait JH, Schartl M, Minx P, Warren WC, Walter RB. (2016) [X. couchianus and X. hellerii genome models provide genomic variation insight among Xiphophorus species.](#) BMC Genomics. 2016 Jan 7;17:37. doi: 10.1186/s12864-015-2361-z.
22. von Hippel FA, Trammell EJ, Merilä J, Sanders MB, Schwarz T, Postlethwait JH, Titus TA, Buck CL, Katsiadaki I. (2016) [The ninespine stickleback as a model organism in arctic ecotoxicology.](#) Evolutionary Ecology Research 17 (4), 487-504.
23. Ding HL, Hooper JE, Batzel P, Eames BF, Postlethwait JH, Artinger KB, et al (2016) [MicroRNA Profiling During Craniofacial Development: Potential Roles for Mir23b and Mir133b.](#) Frontiers in Physiology 7, 281

2015

24. Schartl M, Shen Y, Maurus K, Walter R, Tomlinson C, Wilson RK, Postlethwait J, Warren WC. (2015) [Whole Body Melanoma Transcriptome Response in Medaka](#). PLoS One. 2015 Dec 29;10(12):e0143057. doi: 10.1371/journal.pone.0143057. eCollection
25. Tallafuss A, Kelly M, Gay L, Gibson D, Batzel P, Karfilis KV, Eisen J, Stankunas K, Postlethwait JH, Washbourne P. (2015) [Transcriptomes of post-mitotic neurons identify the usage of alternative pathways during adult and embryonic neuronal differentiation](#). BMC Genomics. 2015 Dec 23;16:1100. doi: 10.1186/s12864-015-2215-8.
26. Desvignes T, Batzel P, Berezikov E, Eilbeck K, Eppig JT, McAndrews MS, Singer A, Postlethwait JH. (2015) [miRNA Nomenclature: A View Incorporating Genetic Origins, Biosynthetic Pathways, and Sequence Variants](#). *Trends Genet.* 31:613-26. doi: 10.1016/j.tig.2015.09.002. PMC4639415
27. Postlethwait JH. (2015) ["Wrecks of Ancient Life": Genetic Variants Vetted by Natural Selection](#). *Genetics.* 200 (3), 675-678.
28. Lin JC, Hu S, Ho PH, Hsu HJ, Postlethwait J, Chung B. (2015) [Two zebrafish hsd3b genes are distinct in function, expression and evolution](#). *Endocrinology.* 156:2854–2862.
29. Furin CG, von Hippel FA, Postlethwait JH, Buck CL, Cresko WA. (2015) [Developmental timing of sodium perchlorate exposure alters angiogenesis, thyroid follicle proliferation and sexual maturation in stickleback](#). *Gen Comp Endocrinol.* 219:24-35.
30. Petersen A, Earp N, Fitch C, Redmond A, Yan Y, Bremiller R, et al., editors. (2015) Perchlorate exposure alters gene expression in primary germ cells and developing gonads of zebrafish and stickleback fishes. *Integr Comp Biol.* Oxford Univ Press Inc., Cary, NC.
31. Manger M, Gardell A, Buck C, Von Hippel F, Petersen A, Cresko W, et al., editors. The effects of perchlorate, iodide and thyroid hormone on the kidney and gonad morphology of the threespine stickleback. *Integr Comp Biol.* Oxford Univ Press Inc., Cary, NC.
32. Furin CG, von Hippel FA, Postlethwait J, Buck CL, Cresko WA, O'Hara TM. (2015) [Developmental timing of perchlorate exposure alters threespine stickleback dermal bone](#). *Gen Comp Endocrinol.* 219:36-44.
33. McCluskey BM, Postlethwait JH. (2015) [Phylogeny of Zebrafish, a "Model Species," within Danio, a "Model Genus"](#). *Mol Biol Evol.* 32:635-52.
34. Gardell AM, Dillon DM, Smayda LC, von Hippel FA, Cresko WA, Postlethwait JH, et al. (2015) [Perchlorate exposure does not modulate temporal variation of whole-body thyroid and androgen hormone content in threespine stickleback](#). *Gen Comp Endocrinol.* 219:45-52.
35. Huang J, Zhong Z, Wang M, Chen X, Tan Y, Zhang S, et al. (2015) [Circadian Modulation of Dopamine Levels and Dopaminergic Neuron Development Contributes to Attention Deficiency and Hyperactive Behavior](#). *J Neurosci.* 35:2572-87.
36. Liu C, Hu J, Qu C, Wang L, Huang G, Niu P, et al. (2015) [Molecular evolution and functional divergence of zebrafish \(Danio rerio\) cryptochrome genes](#). *Sci Rep.* 5:8113.
37. Gehrke AR, Schneider I, de la Calle-Mustienes E, Tena JJ, Gomez-Marin C, Chandran M, et al. (2015) [Deep conservation of wrist and digit enhancers in fish](#). *Proc Natl Acad Sci U S A.* 112:803-8.
38. Petersen AM, Dillon D, Bernhardt RR, Torunsky R, Postlethwait JH, von Hippel FA, et al. (2015) [Perchlorate disrupts embryonic androgen synthesis and reproductive development in threespine stickleback without changing whole-body levels of thyroid hormone](#). *Gen Comp Endocrinol.* 210:130-44.

2014

39. McCluskey BM, **Postlethwait JH.** (2014) [Phylogeny of zebrafish, a 'model species', within Danio, a 'model genus'](#). *Mol Biol Evol.* 32(3):635-52.

40. Shin S, Ahn D, Kim S, Pyo C, Lee H, Kim MK, Lee J, Lee J, Detrich H, Postlethwait JH, Edwards D, Lee S, Lee J, Park H. (2014) [The genome sequence of the Antarctic bullhead notothen reveals evolutionary adaptations to a cold environment](#). *Genome Biol.* 2014 Sep 25;15(9):468. [Epub ahead of print]. PMC4192396.
41. Wilson CA, High SK, McCluskey BM, Amores A, Yan YL, Titus TA, Anderson JL, Batzel P, Carvan MJ 3rd, Schartl M, Postlethwait JH. (2014) [Wild Sex in Zebrafish: Loss of the Natural Sex Determinant in Domesticated Strains](#). *Genetics*. pii: genetics.114.169284. [Epub ahead of print] PMID: 25233988 [Selected by the journal as one of 12 articles in: 'Genetics Spotlight, A showcase of research and scholarship in selected articles from 2014'.]
42. Tallafuss A, Washbourne P, Postlethwait J. (2014) [Temporally and spatially restricted gene expression profiling](#). *Curr Genomics*. 2014 Aug;15(4):278-92. PMC4133951. doi: 10.2174/1389202915666140602230106.
43. Braasch I, Peterson SM, Desvignes T, McCluskey BM, Batzel P, Postlethwait JH. (2014) [A New Model Army: Emerging fish models to study the genomics of vertebrate Evo-Devo](#). *J Exp Zool B Mol Dev Evol*. Epub ahead of print. 2014 Aug 11. doi: 10.1002/jez.b.22589. NIHMS 617646.
44. Desvignes T, Beam MJ, Batzel P, Sydes J, **Postlethwait JH**. (2014) [Expanding annotated zebrafish microRNAs based on smallRNA sequencing](#). *Gene*. 546:386-389. NIHMS 24835514.
45. Amores A, Catchen J, Nanda I, Warren W, Walter R, Schartl M, Postlethwait JH. (2014) [A RAD-tag Genetic Map for the Platyfish \(*Xiphophorus maculatus*\) Reveals Mechanisms of Karyotype Evolution Among Teleost Fish](#). *Genetics*. 2014 Apr 2. [Epub ahead of print]. PMC4063920.
46. Desvignes T, Contreras A, Postlethwait JH. (2014) [Evolution of the *miR199-214* cluster and vertebrate skeletal development](#). *RNA Biology* 11:281-294. PMC4075512.
47. Braasch I, Guiguen Y, Loker R, Letaw JH, Ferrara A, Bobe J, **Postlethwait JH**. (2014) [Connectivity of vertebrate genomes: Paired-related homeobox \(*Prrx*\) genes in spotted gar, basal teleosts, and tetrapods](#). *Comp Biochem Physiol C Toxicol Pharmacol*. 163:24-36. PMC4032612.
48. Zigman M, Laumann-Lipp N, Titus T, **Postlethwait J**, Moens CB. (2014) [Hoxb1b controls oriented cell division, cell shape and microtubule dynamics in neural tube morphogenesis](#). *Development*. 141:639-49. PMC3899817.

2013

49. Korenbrot JI, Mehta M, Tserentsoodol N, **Postlethwait JH**, Rebrik TI. (2013) [EML1 \(CNG-modulin\) controls light sensitivity in darkness and under continuous illumination in zebrafish retinal cone photoreceptors](#). *J Neurosci*. 33:17763-76. PMC3818550.
50. Rodríguez-Marí A, Cañestro C, BreMiller RA, Catchen JM, Yan YL, **Postlethwait JH**. (2013) [Retinoic acid metabolic genes, meiosis, and gonadal sex differentiation in zebrafish](#). *PLoS One*. 8:e73951. PMC3769385.
51. Zhang G, Hoersch S, Amsterdam A, Whittaker CA, Beert E, Catchen JM, Farrington S, **Postlethwait JH**, Legius E, Hopkins N, Lees JA. (2013) [Comparative oncogenomic analysis of copy number alterations in human and zebrafish tumors enables cancer driver discovery](#). *PLoS Genet*. 9:e1003734. PMC3757083
52. Meng F, Braasch I, Phillips JB, Lin X, Titus T, Zhang C, **Postlethwait JH**. (2013) [Evolution of the Eye Transcriptome under Constant Darkness in *Sinocyclocheilus Cavefish*](#). *Mol Biol Evol*. 30:1527-43. PMC3684860.

53. Amemiya CT, Alföldi J, Lee AP, Fan S, Philippe H, Maccallum I, Braasch I, Manousaki T, Schneider I, Rohner N, Organ C, Chalopin D, Smith JJ, Robinson M, Dorrington RA, Gerdol M, Aken B, Biscotti MA, Barucca M, Baurain D, Berlin AM, Blatch GL, Buonocore F, Burmester T, Campbell MS, Canapa A, Cannon JP, Christoffels A, De Moro G, Edkins AL, Fan L, Fausto AM, Feiner N, Forconi M, Gamielien J, Gnerre S, Gnirke A, Goldstone JV, Haerty W, Hahn ME, Hesse U, Hoffmann S, Johnson J, Karchner SI, Kuraku S, Lara M, Levin JZ, Litman GW, Mauceli E, Miyake T, Mueller MG, Nelson DR, Nitsche A, Olmo E, Ota T, Pallavicini A, Panji S, Picone B, Ponting CP, Prohaska SJ, Przybylski D, Saha NR, Ravi V, Ribeiro FJ, Sauka-Spengler T, Scapigliati G, Searle SM, Sharpe T, Simakov O, Stadler PF, Stegeman JJ, Sumiyama K, Tabbaa D, Tafer H, Turner-Maier J, van Heusden P, White S, Williams L, Yandell M, Brinkmann H, Volff JN, Tabin CJ, Shubin N, Scharl M, Jaffe DB, **Postlethwait JH**, Venkatesh B, Di Palma F, Lander ES, Meyer A, Lindblad-Toh K. (2013) [The African coelacanth genome provides insights into tetrapod evolution](#). *Nature*. 496:311-6. PMC3633110. [Our contribution to this project has been highlighted in several reviews, such as: Gross, M. 2013 *Current Biology*, 23:R419-R421, 20 May 2013. PMID:23598338.]
54. Howe K, Clark MD, Torroja CF, Torrance J, Berthelot C, Muffato M, Collins JE, Humphray S, McLaren K, Matthews L, McLaren S, Sealy I, Caccamo M, Churcher C, Scott C, Barrett JC, Koch R, Rauch GJ, White S, Chow W, Kilian B, Quintais LT, Guerra-Assunção JA, Zhou Y, Gu Y, Yen J, Vogel JH, Eyre T, Redmond S, Banerjee R, Chi J, Fu B, Langley E, Maguire SF, Laird GK, Lloyd D, Kenyon E, Donaldson S, Sehra H, Almeida-King J, Loveland J, Trevanion S, Jones M, Quail M, Willey D, Hunt A, Burton J, Sims S, McLay K, Plumb B, Davis J, Cleve C, Oliver K, Clark R, Riddle C, Elliott D, Threadgold G, Harden G, Ware D, Mortimer B, Kerry G, Heath P, Phillimore B, Tracey A, Corby N, Dunn M, Johnson C, Wood J, Clark S, Pelan S, Griffiths G, Smith M, Glithero R, Howden P, Barker N, Stevens C, Harley J, Holt K, Panagiotidis G, Lovell J, Beasley H, Henderson C, Gordon D, Auger K, Wright D, Collins J, Raisen C, Dyer L, Leung K, Robertson L, Ambridge K, Leongamornlert D, McGuire S, Gilderthorp R, Griffiths C, Manthravadi D, Nichol S, Barker G, Whitehead S, Kay M, Brown J, Murnane C, Gray E, Humphries M, Sycamore N, Barker D, Saunders D, Wallis J, Babbage A, Hammond S, Mashreghi-Mohammadi M, Barr L, Martin S, Wray P, Ellington A, Matthews N, Ellwood M, Woodmansey R, Clark G, Cooper J, Tromans A, Grafham D, Skuce C, Pandian R, Andrews R, Harrison E, Kimberley A, Garnett J, Fosker N, Hall R, Garner P, Kelly D, Bird C, Palmer S, Gehring I, Berger A, Dooley CM, Ersan-Ürün Z, Eser C, Geiger H, Geisler M, Karotki L, Kirn A, Konantz J, Konantz M, Oberländer M, Rudolph-Geiger S, Teucke M, Osoegawa K, Zhu B, Rapp A, Widaa S, Langford C, Yang F, Carter NP, Harrow J, Ning Z, Herrero J, Searle SM, Enright A, Geisler R, Plasterk RH, Lee C, Westerfield M, de Jong PJ, Zon LI, **Postlethwait JH**, Nüsslein-Volhard C, Hubbard TJ, Roest Crolius H, Rogers J, Stemple DL. (2013) [The zebrafish reference genome sequence and its relationship to the human genome](#). *Nature*. 496:498-503. PMID:23594743. PMC3703927. [Despite the long list of authors, I actually played a major role in getting this genome project back on track, as documented in the acknowledgements section of the paper "The Zebrafish Genome Project was coordinated by L.I.Z., J.H.P., C.N.-V., T.J.P.H., J.R. and D.L.S.". In addition, one of our many contributions to this project was highlighted in a review of this work (Gross, M. 2013 *Current Biology*, 23:R419-R421, 20 May 2013).]
55. Scharl M, Walter RB, Shen Y, Garcia T, Catchen J, Amores A, Braasch I, Chalopin D, Volff JN, Lesch KP, Bisazza A, Minx P, Hillier L, Wilson RK, Fuerstenberg S, Boore J, Searle S, **Postlethwait JH**, Warren WC. (2013) [The genome of the platyfish, *Xiphophorus maculatus*, provides insights into evolutionary adaptation and several complex traits](#). *Nat Genet*. 45:567-72. PMC3677569.
56. Meng F, Zhao Y, **Postlethwait JH**, Zhang C. (2013) [Differentially-expressed opsin genes identified in *Sinocyclocheilus cavefish* endemic to China](#). *Curr Zool*. 59:170-174. PMC3868444.

2012

57. Yang Y, Wandler AM, **Postlethwait JH**, Guillemin K. (2012) [Dynamic Evolution of the LPS-Detoxifying Enzyme Intestinal Alkaline Phosphatase in Zebrafish and Other Vertebrates](#). *Front Immunol*. 3:314. PMC3469785.

58. Anderson JL, Rodríguez Marí A, Braasch I, Amores A, Hohenlohe P, Batzel P, **Postlethwait JH**. (2012) [Multiple Sex-Associated Regions and a Putative Sex Chromosome in Zebrafish Revealed by RAD Mapping and Population Genomics](#). *PLoS One*. 7:e40701. Epub 2012 Jul 9. PMC3392230
59. Talbot JC, Walker MB, Carney TJ, Huycke TR, Yan YL, Bremiller RA, Gai L, Delaurier A, **Postlethwait JH**, Hammerschmidt M, Kimmel CB. (2012) [fras1 shapes endodermal pouch 1 and stabilizes zebrafish pharyngeal skeletal development](#). *Development*. 139:2804-13. PMC3392706.
60. Yan YL, Bhattacharya P, He X, Ponugoti B, Marquardt B, Layman J, Grunloh M, **Postlethwait JH**, Rubin D. (2012) [Duplicated zebrafish co-orthologs of parathyroid hormone-related peptide \(PTHrP, Pthlh\) play different roles in craniofacial skeletogenesis](#). *J Endocrinol*. 214(3):421-35. doi: 10.1530/JOE-12-0110. PMC3718479.
61. DeLaurier A, Nakamura Y, Braasch I, Khanna V, Kato H, Wakitani S, **Postlethwait JH**, Kimmel CB. (2012) [Histone deacetylase-4 is required during early cranial neural crest development for generation of the zebrafish palatal skeleton](#). *BMC Dev Bio*. 12:16 doi:10.1186/1471-213X-12-16. PMC3426487.
62. Eames BF, Amores A, Yan Y-L, **Postlethwait JH**. (2012) [Evolution of the osteoblast: Skeletogenesis in gar and zebrafish](#). *BMC Evol Biol*. 12:27 doi:10.1186/1471-2148-12-27. PMC3314580
63. Nakamura Y, He X, Kato H, Wakitani S, Kobayashi T, Watanabe S, Iida A, Tahara H, Warman ML, Watanapokasin R, **Postlethwait JH**. (2012) [Sox9 Is Upstream of MicroRNA-140 in Cartilage](#). *Appl Biochem Biotechnol*. 166:64-71. PMC3774128.

2011

64. Yokoi H, **Postlethwait JH**. (2011) [Genome Duplication and Subfunction Partitioning: Sox9 in Medaka and Other Vertebrates](#). *Medaka: A Model for Organogenesis, Human Disease and Evolution*. K. Naruse et al. (eds.) Springer. Japan. 2011. p 323-337. Print. ISBN: 9784431926900. DOI: 10.1007/978-4-431-92691-7.
65. Rodríguez-Mari A, **Postlethwait JH**. (2011) [The role of Fanconi anemia/BRCA genes in zebrafish sex determination](#). In H.W. Detrich, M. Westerfield, L. I. Zon (Eds). *The Zebrafish: Disease Models and Chemical Screens*. *Methods Cell Biol*, Vol.105: p. 461-90. Cambridge, MA.
66. Lenhart KF, Lin SY, Titus TA, **Postlethwait JH**, Burdine RD. (2011) [Two additional midline barriers function with midline lefty1 expression to maintain asymmetric Nodal signaling during left-right axis specification in zebrafish](#). *Development*. 138:4405-10. PMC3177310.
67. Catchen JM, Braasch I, **Postlethwait JH**. (2011) [Conserved synteny and the zebrafish genome](#). In H.W. Detrich, M. Westerfield, L. I. Zon (Eds). *The Zebrafish: Disease Models and Chemical Screens*. *Methods Cell Biol*. Vol. 104 p. 259-85. Cambridge, MA.
68. Clark MD, Guryev V, Bruijn E, Nijman IJ, Tada M, Wilson C, Deloukas P, **Postlethwait JH**, Cuppen E, Stemple DL. (2011) [Single nucleotide polymorphism \(SNP\) panels for rapid positional cloning in zebrafish](#). In H.W. Detrich, M. Westerfield, L. I. Zon (Eds). *The Zebrafish: Genetics, Genomics and Informatics*. *Methods Cell Biol*, Vol.104. Chapter 13. p. 219-235. Cambridge, MA.
69. Song H, Yan YL, Titus T, He X, **Postlethwait JH**. (2011) [The role of stat1b in zebrafish hematopoiesis](#). *Mech Dev*. 128:442-56. PMC3223297.
70. Eames BF, Yan YL, Swartz ME, Levic DS, Knapik EW, **Postlethwait JH**, Kimmel CB. (2011) [Mutations in fam20b and xylt1 Reveal That Cartilage Matrix Controls Timing of Endochondral Ossification by Inhibiting Chondrocyte Maturation](#). *PLoS Genet*. 7:e1002246. PMC3161922.
71. Garcia TI, Shen Y, Catchen J, Amores A, Schartl M, **Postlethwait J**, Walter RB. (2011) [Effects of short read quality and quantity on a de novo vertebrate transcriptome assembly](#). *Comp Biochem Physiol C Toxicol Pharmacol*. 155(1):95-101. PMC3223268

72. Bhattacharya P, Yan Y-L, **Postlethwait J**, Rubin DA. (2011) [Evolution of the vertebrate pth2 \(tip39\) gene family and the regulation of PTH type-2 Receptor \(pth2r\) and its endogenous ligand pth2 by Hedgehog signaling in zebrafish development](#). *J Endocrinol.* 211(2):187-200. PMC3192934
73. He X, Yan Y-L, Eberhart JK, Herpin A, Wagner TU, Scharl M, Postlethwait JH. (2011) [miR-196 regulates axial patterning and pectoral appendage initiation](#). *Dev Bio.* 357(2):463-77. PMC3164755
74. Catchen, J., Amores, A., Hohenlohe, P., Cresko, W., and Postlethwait, J.H. (2011) [Stacks: building and genotyping loci de novo from short-read sequences](#). *G3* 1:171-182. PMC3276136.
75. Amores, A., Catchen, J., Ferrara, A., Fontenot, Q. and **Postlethwait**, J.H. (2011) [Genome evolution and meiotic maps by massively parallel DNA sequencing: Spotted gar, an outgroup for the teleost genome duplication](#). *Genetics.* 188:799-808. PMC3176089.
76. Shen Y, Catchen J, Garcia T, Amores A, Beldorth I, Wagner J, Zhang Z, **Postlethwait J**, Warren W, Scharl M, Walter RB. (2011) [Identification of transcriptome SNPs between Xiphophorus lines and species for assessing allele specific gene expression within F\(1\) interspecies hybrids](#). *Comp Biochem Physiol C Toxicol Pharmacol.* 155:102-8. PMC3178741.
77. Hochheiser H, Aronow BJ, Artinger K, Beaty TH, Brinkley JF, Chai Y, Clouthier D, Cunningham ML, Dixon M, Donahue LR, Fraser SE, Hallgrimsson B, Iwata J, Klein O, Marazita ML, Murray JC, Murray S, de Villena FP, **Postlethwait J**, Potter S, Shapiro L, Spritz R, Visel A, Weinberg SM, Trainor PA. (2011) [The FaceBase Consortium: A comprehensive program to facilitate craniofacial research](#). *Dev Biol.* 355:175-182. PMC3440302.
78. Rodríguez-Marí A, Wilson C, Titus TA, Cañestro C, BreMiller RA, Yan YL, Nanda I, Johnston A, Kanki JP, Gray EM, He X, Spitsbergen J, Schindler D, **Postlethwait JH**. (2011) [Roles of brca2 \(fancd1\) in Oocyte Nuclear Architecture, Gametogenesis, Gonad Tumors, and Genome Stability in Zebrafish](#). *PLoS Genet* 7(3):e1001357. PMC3069109.
79. Braasch I, **Postlethwait JH**. (2011) [The teleost agouti-related protein 2 gene is an ohnolog gene missing from the tetrapod genome](#). *Proc Natl Acad Sci U S A.* 108(13):E47-8. PMC3069192.
80. Nakamura Y, Yamamoto K, He X, Otsuki B, Kim Y, Murao H, Soeda T, Tsumaki N, Deng JM, Zhang Z, Behringer RR, Crombrughe B, **Postlethwait JH**, Warman ML, Nakamura T, Akiyama H. (2011) [Wwp2 is essential for palatogenesis mediated by the interaction between Sox9 and mediator subunit 25](#). *Nat Commun.* 2:251. PubMed PMID: 21427722.
81. He X, Yan Y-L, DeLaurier A, **Postlethwait**, JH (2011) [Observation of miRNA gene expression in zebrafish embryos by in situ hybridization to microRNA primary transcripts](#). *Zebrafish.* 8(1):1-8. PMC3065723

2010

82. Denoëud F, Henriët S, Mungpakdee S, Aury JM, Da Silva C, Brinkmann H, Mikhaleva J, Olsen LC, Jubin C, Cañestro C, Bouquet JM, Danks G, Poulain J, Campsteijn C, Adamski M, Cross I, Yadetie F, Muffato M, Louis A, Butcher S, Tsagkogeorga G, Konrad A, Singh S, Jensen MF, Cong EH, Eikeseth-Otteraa H, Noel B, Anthouard V, Porcel BM, Kachouri-Lafond R, Nishino A, Ugolini M, Chourrout P, Nishida H, Aasland R, Huzurbazar S, Westhof E, Delsuc F, Lehrach H, Reinhardt R, Weissenbach J, Roy SW, Artiguenave F, **Postlethwait JH**, Manak JR, Thompson EM, Jaillon O, Du Pasquier L, Boudinot P, Liberles DA, Volf JN, Philippe H, Lenhard B, Roest Crollius H, Wincker P, Chourrout D. (2010) [Plasticity of animal genome architecture unmasked by rapid evolution of a pelagic tunicate](#). *Science.* 330(6009):1381-5. PMCID: n/a
83. Rodríguez-Marí A, Cañestro C, BreMiller RA, Nguyen-Johnson A, Asakawa K, Kawakami K, **Postlethwait JH**. (2010) [Sex reversal in zebrafish fanc1 mutants is caused by Tp53-mediated germ cell apoptosis](#). *PLoS Genet.* 6(7):e1001034. PMC2908690.

84. Eames BF, Singer A, Smith GA, Wood ZA, Yan YL, He X, Polizzi SJ, Catchen JM, Rodriguez-Mari A, Linbo T, Raible DW, **Postlethwait** JH (2010) [UDP xylose synthase 1 is required for morphogenesis and histogenesis of the craniofacial skeleton](#). *Dev Biol.* 341(2):400-15. PMC2888048
85. Cañestro C, Albalat R, **Postlethwait** JH. (2010) [Oikopleura dioica alcohol dehydrogenase class 3 provides new insights into the evolution of retinoic acid synthesis in chordates](#). *Zoolog Sci.* 27(2):128-33.
86. Wang S, Peatman E, Abernathy J, Waldbieser G, Lindquist E, Richardson P, Lucas S, Wang M, Li P, Thimmapuram J, Liu L, Vullaganti D, Kucuktas H, Murdock C, Small BC, Wilson M, Liu H, Jiang Y, Lee Y, Chen F, Lu J, Wang W, Xu P, Somridhivej B, Baoprasertkul P, Quilang J, Sha Z, Bao B, Wang Y, Wang Q, Takano T, Nandi S, Liu S, Wong L, Kaltenboeck L, Quiniou S, Bengten E, Miller N, Trant J, Rokhsar D, Liu Z; **Catfish Genome Consortium** (2010) [Assembly of 500,000 inter-specific catfish expressed sequence tags and large scale gene-associated marker development for whole genome association studies](#). *Genome Biol.* 11(1):R8. PMC2847720
87. Albertson RC, Yan YL, Titus TA, Pisano E, Vacchi M, Yelick PC, Detrich HW 3rd, **Postlethwait** JH. (2010) [Molecular pedomorphism underlies craniofacial skeletal evolution in Antarctic notothenioid fishes](#). *BMC Evol Biol.* 10:4. PMC2824663
88. Esain, V, **Postlethwait**, JH, Charnay, P, Julien Ghislain, J (2010) [FGF-receptor signalling in the zebrafish hindbrain controls the formation of discrete radial glial domains and the generation of neural cell diversity](#). *Development* 137(1):33-42. PMC2796930
89. Jovelin, R, Yan, Y-L, He, X., Catchen, J, Amores, A, Canestro, C, Yokoi, H, **Postlethwait**, JH (2010) [Evolution of developmental regulation in the vertebrate FgfD subfamily. JEZ Part B: Molecular and Developmental Evolution](#). *J Exp Zool B Mol Dev Evol.* 314(1):33-56. PMC3092526.

2009

90. Sullivan C, Charette J, Catchen J, Lage CR, Giasson G, **Postlethwait** JH, Millard PJ, Kim CH. (2009) [The Gene History of Zebrafish tlr4a and tlr4b Is Predictive of Their Divergent Functions](#). *J Immunol.* 183(9):5896-908. PMC2819326
91. Catchen, JM, Conery, JS, **Postlethwait**, JH (2009) [Automated identification of conserved synteny after whole genome duplication](#). *Genome Research* 19:1497-505. PMC2720179
92. Cañestro, C, Catchen, JM, Rodríguez-Mari, A, Yokoi, H, **Postlethwait**, JH (2009) [Consequences of Lineage-specific Gene Loss on Functional Evolution of Surviving Paralogs: ALDH1A and Retinoic Acid Signaling in Vertebrate Genomes](#). *PLoS Genet.* 5(5):e1000496. PMC2682703.
93. Titus, T., Yan, Y.-L., Wilson, C., Starks, A., Frohnmayer, J., Canestro, C., Rodriguez-Mari, A., He, X., **Postlethwait**, J.H. (2009) [The Fanconi anemia/BRCA gene network in zebrafish: Embryonic expression and comparative genomics](#). *Mutat Res.* 668(1-2):117-32. PMC2714409
94. Albertson, R.C., Cresko, W., Detrich, III, H.W., **Postlethwait**, J.H. (2009) [Evolutionary Mutant Models for Human Disease](#). *Trends in Genetics*, 25(2):74-81. PMC2828043
95. He, X., Eberhart, J.K., **Postlethwait**, J.H. (2009) [MicroRNAs and micromanaging the skeleton in disease, development, and evolution](#). *J Cell Mol Med.* 13(4):606-18. PMC2828950
96. Yokoi, H., Yan, Y.-L., Miller, M.R., BreMiller, RA., Catchen, J.M., Johnson. E., and **Postlethwait**, J.H. (2009) [Expression profiling of zebrafish sox9 mutants reveals that Sox9 is required for retinal differentiation](#). *Dev Bio* 329:1–15. PMC2706370.

2008

97. Nakamura, Y., He, X., Kobayashi, T., Yan, Y.-L., **Postlethwait**, J.H., Warman, M.L. (2008) [Unique roles of microRNA140 and its host gene WWP2 in cartilage biology](#). *J Musculoskelet Neuronal Interact.* 8(4):321-2. PMC2757261.
98. Rotllant, J., Liu, D., Yan, Y.-L., Postlethwait, J. H., Westerfield, M., Du, S.-J. (2008) [Sparc \(Osteonectin\) functions in morphogenesis of the pharyngeal skeleton and inner ear](#). *Matrix Biology* 27:561-72. PMC2642737.
99. Cañestro, C., Bassham, S., and Postlethwait, J. H. (2008) [Evolution of the thyroid: anterior-posterior regionalization of the Oikopleura endostyle revealed by Otx, Pax2/5/8, and Hox1 expression](#). *Developmental Dynamics* 237:1490-9.
100. Eberhart, J. K., He, X., Swartz, M. E., Yan, Y.-L., Song, H., Boling, T. C., Kunerth, A. K., Walker, M. B., Kimmel, C. B., and Postlethwait, J. H. (2008) [MicroRNA Mirn140 modulates Pdgf signaling during palatogenesis](#). *Nature Genetics* 40:290-8. PMC2747601.
101. Lewis, Z.R., McClellan, M.C., **Postlethwait**, J.H., Cresko, W., Kaplan, R. (2008) [Female-specific increase in primordial germ cells marks sex differentiation in threespine stickleback \(Gasterosteus aculeatus\)](#). *J. Morphol.* 269:909-21.
102. Bassham, S., Cañestro, C., and **Postlethwait**, J.H. (2008) [Evolution of developmental roles of Pax2/5/8 paralogs after independent duplication in urochordate and vertebrate lineages](#). *BMC Biol.* 6:35. PMC2532684.
103. Bussmann, J., Lawson, N., Zon, L., Schulte-Merker, S., Ekker, M., Mullins, M., **Postlethwait**, J., Westerfield, M., et al (2008) [Zebrafish VEGF receptors: A guideline to nomenclature](#). *PLoS Genet.* 4(5):e1000064.

2007

104. Miller, M. R., Atwood, T. S., Eames, B. F., Eberhart, J. K., Yan, Y.-L., Postlethwait, J. H. and Johnson, E. A. (2007) RAD marker microarrays enable rapid mapping of zebrafish mutations. *Genome Biology* 8(6): R105. PMCID: PMC2394753.
105. Cresko, W. A., McGuigan, K. L., Phillips, P. C. and Postlethwait, J. H. (2007) Studies of threespine stickleback developmental evolution: progress and promise. *Genetica* 129,105-26.
106. Cañestro, C., Yokoi, H., and John H. Postlethwait (2007) Evolutionary developmental biology and genomics. *Nature Review Genetics* 12, 932-42.
107. Jovelin, R., He, X., Amores, A., Yan, Y.-L., Shi, R., Qin, B., Roe, B., Cresko, W. A., and Postlethwait, J. H. (2007) Duplication and divergence of *fgf8* functions in teleost development and evolution. *J. Exper. Zool. (Mol. Dev. Evol.)* 308B, 1-14.
108. Miller, M. R., Eames, B. F., Eberhart, J. K., Yan, Y.-L., Postlethwait, J. H. and Johnson, E. A. (2007) RAD marker microarrays enable rapid mapping of zebrafish mutations. *Gen. Biol.* 8, R105.
109. Catchen, J. M., Conery, J. S., and Postlethwait, J. H. (2007) Inferring Ancestral Gene Order. In: *Methods in Molecular Biology: Bioinformatics* 452, 365-83. Editor: Jonathan Keith. Humana Press, Totowa, New Jersey.
110. Cañestro, D. and Postlethwait, J. H. (2007) Development of a chordate anterior-posterior axis without classical retinoic acid signaling. *Dev. Biol.* 15, 522-38.
111. Sakata, S.I., Yan, Y., Satou, Y., Momoi, A., Ngo-Hazelett, P., Nozaki, M., Furutani-Seiki, M., Postlethwait, J. H., Yonehara, S., and Sakamaki, K. (2007) Conserved function of *caspase-8* in apoptosis during bony fish evolution. *Gene* 396, 134-48.
112. Sullivan, C., Lage, C., Millard, P., Postlethwait, J. H., and Kim, C. H. (2007). Evidence for evolving TICAM function in vertebrates. *Journal of Immunology* 178, 4517-27.

2006

113. Postlethwait, J. H. (2006) The zebrafish genome in context: Ohnologs gone missing. *J. Exp. Zool. (Mol. Dev. Evol.)* 306B.
114. Nolte, C., Rastegar, M., Amores, A., Bouchard, M., Grote, D., Maas, R., Kovacs, E., Postlethwait, J., Rambaldi, I., Rowan, S., Yan, Y.L., Zhang, F., and Featherstone, M. (2006) Stereospecificity and PAX6 function direct *Hoxd4* neural enhancer activity along the antero-posterior axis. *Developmental Biology* 299, 582-593.
115. Postlethwait, J. H. (2006) The zebrafish genome: A review and case study of *msx* genes. *Genome Dynamics* 2, 183-197.
116. Leveille, F., Ferrer, M., Medhurst, A. L., Laghmani, E. H., Rooimans, M. A., Bier, P., Steltenpool, J., Titus, T. A., Postlethwait, J. H., Hoatlin, M. E., Joenje, H., and de Winter, J. P. (2006) The nuclear accumulation of the Fanconi anemia protein FANCE depends on FANCC. *DNA Repair* 5, 556-565.
117. Titus, T. A., Selvig, D. R., Quin, B., Wilson, I., Starks, A., Roe, B. A. and J. H. Postlethwait (2006) The Fanconi anemia gene network is conserved from zebrafish to human. *Gene* 371, 211-223.
118. Brome T., Venkatesh, B., Brenner, S., Postlethwait, J.H., Yan, Y.-L., and Larhammar, D. (2006) Uneven evolutionary rates of bradykinin B1 and B2 receptors in vertebrate lineages. *Gene* 373,100-108.
119. Cañestro, C., Postlethwait, J. H., Gonzalez-Duarte, R. and Albalat, R. (2006) Is retinoic acid genetic machinery a chordate innovation? *Evol. Development* 8, 394-406.
120. Phillips, R. B., Amores, A., Morasch, M. R., Wilson, C., and Postlethwait, J. H. (2006) Assignment of zebrafish genetic linkage groups to chromosomes. *Cyto. Genome Res.* 114, 155-62.
121. Tallafuss, A., Hale, L. A., Yan, Y. L., Dudley, L., Eisen, J. S., and Postlethwait, J. H. (2006) Characterization of retinoid-X receptor genes *rxra*, *rxrba*, *rcrb* and *rxrg* during zebrafish development. *Gene Expr. Patterns* 6, 556-565.
122. Hale, L. A., Tallafuss, A., Yan, Y. L., Dudley, L., Eisen, J. S., and Postlethwait, J. H. (2006) Characterization of the retinoic acid receptor genes *raaa*, *raab* and *rarg* during zebrafish development. *Gene Expr. Patterns* 6, 546-555.

2005

123. Bassham, S. and Postlethwait, J. (2005) The evolutionary history of placodes: a molecular genetic investigation of the larvacean urochordate *Oikopleura dioica*. *Development* 132, 4259-72.
124. Woods, I. G., Wilson, C., Friedlander, B., Chang, P., Reyes, D. K., Nix, R., Kelly, R. D., Chu, F., Postlethwait, J. H., and Talbot, W. S. (2005) The zebrafish gene map defines ancestral vertebrate chromosomes. *Genome Research* 15, 1307-1314.
125. Canestro, C., Bassham, S., and Postlethwait, J. H. (2005) Development of the central nervous system in the larvacean *Oikopleura dioica* and the evolution of the chordate brain. *Devel. Bio.* 285, 298-315.
126. Kuo, M-W., Lou, S-W. Postlethwait, J. H., and Chung, B-C. (2005) Chromosomal organization, evolutionary relationship, and expression of zebrafish GnRH family members. *J. Biomed. Sci.* 389, 19-26.
127. Albertson, R. C., Payne-Ferreira, T. L., Postlethwait, J., and P. C. Yelick (2005) Zebrafish *acvr2a* and *acvr2b* exhibit distinct roles in craniofacial development. *Dev. Dyn.* 233, 1405-18.
128. Kimmel, C., Ullmann, B., Walker, C., Wilson, C., Currey, M., Phillips, P., Bell, M. A., Postlethwait, J. H., and Cresko, W. (2005) Evolution and development of facial bone morphology in threespine stickleback. *PNAS* 102, 5791-6.

129. Lagerstrom, M., Fredriksson, R., Bjarnadottier, T., Fridmanis, D., Holmquist, T., Andersson, J., Yan, Y., Raudsepp, T., Zoorob, R., Kukkonen, J. P., Lundin, L., Klovins, J., Chowdhary, B., and Postlethwait, J. (2005) Origin of the prolactin-releasing hormone (PRLH) receptors: Evidence of coevolution between PRLH and a redundant neuropeptide Y receptor during vertebrate evolution. *Genomics* 85, 688-703.
130. Tanaka, M., Hale, L., Amores, A., Yan, Y., Cresko, W., Suzuki, T., and Postlethwait, J. (2005) Developmental genetic basis for the evolution of pelvic fin loss in the pufferfish *Takifugu rubripes*. *Dev Biol.* 281, 227-39.
131. Rodriguez-Mari, A., Yan, Y., BreMiller, R., Wilson, C., Canestro, C., and Postlethwait, J. (2005) Characterization and expression pattern of zebrafish Anti-Mullerian hormone (amh) relative to *sox9a*, *sox9b*, and *cyp19a* during gonad development. *Gene Expr. Patterns* 5, 655-667.
132. Yan, Y. L., Willoughby, J., Liu, D., Crump, J. G., Wilson, C., Miller, C. T., Singer, A., Kimmel, C., Westerfield, M., and Postlethwait, J. H. (2005) A pair of Sox: distinct and overlapping functions of zebrafish *sox9* co-orthologs in craniofacial and pectoral fin development. *Development* 132, 1069-83.
133. Kuo, M., Postlethwait, J., Lee, W., Lour, S., Chan, W., and Chung, B. (2005) Gene duplication gene loss and evolution of expression domains in the vertebrate nuclear receptor NR5A (Ftz-F1) family. *Biochem J.* 389, 19-26.
134. Gloriam, D., Bjarnadottier, T., Yan, Y., Postlethwait, J., Schioth, H. B., and Fredriksson, R. (2005) The repertoire of trace amine G-protein coupled receptors: Large expansion in zebrafish. *Mol. Phylogenet. Evol.* 35, 470-82.

2004

135. Postlethwait, J. (2004) Evolution of the Zebrafish Genome. In "Fish Development and Genetics: the Zebrafish and Medaka Models" (Z. Gong and V. Korzh, Eds.), pp. 688. World Scientific Publishing Company.
136. Ruuskanen, J. O., Xhaard, H., Marjamaki, A., Salaneck, E., Salminen, T., Yan, Y. L., Postlethwait, J. H., Johnson, M. S., Larhammar, D., and Scheinin, M. (2004) Identification of duplicated fourth alpha2-adrenergic receptor subtype by cloning and mapping of five receptor genes in zebrafish. *Mol. Biol. Evol.* 21(1), 14-28.
137. Postlethwait, J., Amores, A., Cresko, W., Singer, A., and Yan, Y. L. (2004) Subfunction partitioning, the teleost radiation and the annotation of the human genome. *Trends Genet.* 20, 481-90.
138. Dodou, E., Barald, K. F. and Postlethwait, J. H. (2004) Ventralized zebrafish embryo rescue by overexpression of *Zic2a*. *Zebrafish* 1(3), 239-256.
139. Postlethwait, J., Ruotti, V., Carvan, M. J., and Tonellato, P. J. (2004) Automated analysis of conserved synteny for the zebrafish genome. *Methods Cell. Biol.* 77, 255-71.
140. Papasani, M. R., Gensure, R. C., Yan, Y. L., Gunes, Y., Postlethwait, J. H., Ponugoti, B., John, M. R., Juppner, H., and Rubin, D. A. (2004) Identification and characterization of the zebrafish and fugu genes encoding tuberoinfundibular peptide 39. *Endocrinology* 145(11), 5294-304.
141. Naruse, K., Tanaka, M., Mita, K., Shima, A., Postlethwait, J., and Mitani, H. (2004) A medaka gene map: the trace of ancestral vertebrate proto-chromosomes revealed by comparative gene mapping. *Genome Res.* 14(5), 820-8.
142. McGuigan, K., Phillips, P. C., and Postlethwait, J. H. (2004) Evolution of sarcomeric myosin heavy chain genes: evidence from fish. *Mol. Biol. Evol.* 21, 1042-56.
143. Fredriksson, R., Larson, E. T., Yan, Y. L., Postlethwait, J. H., and Larhammar, D. (2004) Novel neuropeptide Y Y2-like receptor subtype in zebrafish and frogs supports early vertebrate chromosome duplications. *J. Mol. Evol.* 58(1), 106-14.

144. Flores, M. V., Tsang, V. W., Hu, W., Kalev-Zylinska, M., Postlethwait, J., Crosier, P., Crosier, K., and Fisher, S. (2004) Duplicate zebrafish runx2 orthologues are expressed in developing skeletal elements. *Gene Expr. Patterns* 4, 573-81.
145. Cresko, W. A., Amores, A., Wilson, C., Murphy, J., Currey, M., Phillips, P., Bell, M. A., Kimmel, C. B., and Postlethwait, J. H. (2004) Parallel genetic basis for repeated evolution of armor loss in Alaskan threespine stickleback populations. *PNAS USA* 101, 6050-5.
146. Cao, Y., Zhao, J., Sun, Z., Zhao, Z., Postlethwait, J., and Meng, A. (2004) fgf17b, a novel member of Fgf family, helps patterning zebrafish embryos. *Dev. Biol.* 271, 130-43.
147. Amores, A., Suzuki, T., Yan, Y. L., Pomeroy, J., Singer, A., Amemiya, C., and Postlethwait, J. H. (2004) Developmental roles of pufferfish Hox clusters and genome evolution in ray-fin fish. *Genome Res.* 14, 1-10.

2003

148. Zhao, C. T., Shi, K. H., Su, Y., Liang, L. Y., Yan, Y., Postlethwait, J., and Meng, A. M. (2003) Two variants of zebrafish p100 are expressed during embryogenesis and regulated by Nodal signaling. *FEBS Lett* 543, 190-5.
149. Zhao, J., Cao, Y., Zhao, C., Postlethwait, J., and Meng, A. (2003) An SP1-like transcription factor Spr2 acts downstream of Fgf signaling to mediate mesoderm induction. *Embo. J.* 22, 6078-88.
150. Rhinn, M., Lun, K., Amores, A., Yan, Y. L., Postlethwait, J. H., and Brand, M. (2003) Cloning, expression and relationship of zebrafish gbx1 and gbx2 genes to Fgf signaling. *Mech. Dev.* 120, 919-36.
151. Paw, B. H., Davidson, A. J., Zhou, Y., Li, R., Pratt, S. J., Lee, C., Trede, N. S., Brownlie, A., Donovan, A., Liao, E. C., Ziai, J. M., Drejer, A. H., Guo, W., Kim, C. H., Gwynn, B., Peters, L. L., Chernova, M. N., Alper, S. L., Zapata, A., Wickramasinghe, S. N., Lee, M. J., Lux, S. E., Fritz, A., Postlethwait, J. H., and Zon, L. I. (2003) Cell-specific mitotic defect and dyserythropoiesis associated with erythroid band 3 deficiency. *Nat. Genet.* 34, 59-64.
152. Nolte, C., Amores, A., Nagy Kovacs, E., Postlethwait, J., and Featherstone, M. (2003) The role of a retinoic acid response element in establishing the anterior neural expression border of Hoxd4 transgenes. *Mech. Dev.* 120, 325-35.
153. Masumoto, J., Zhou, W., Chen, F., Su, J., Kuwada, E., Hidaka, T., Katsuyama, J., Sagara, S., Taniguchi, P., Ngo-Hazelett, P., and Postlethwait, J. (2003) Caspy: A zebrafish caspase, activated by ASC oligomerization required for pharyngeal arch development. *J. Biol. Chem.* 278(6), 4268-4276.
154. Liu, D., Chu, H., Maves, L., Yan, Y. L., Morcos, P. A., Postlethwait, J. H., and Westerfield, M. (2003) Fgf3 and Fgf8 dependent and independent transcription factors are required for otic placode specification. *Development* 130, 2213-24.
155. Kalev-Zylinska, M. L., Horsfield, J. A., Flores, M. V., Postlethwait, J. H., Chau, J. Y., Cattin, P. M., Vitas, M. R., Crosier, P. S., and Crosier, K. E. (2003) Runx3 is required for hematopoietic development in zebrafish. *Dev. Dyn.* 228, 323-36.
156. Cresko, W. A., Yan, Y. L., Baltrus, D. A., Amores, A., Singer, A., Rodriguez-Mari, A., and Postlethwait, J. H. (2003) Genome duplication, subfunction partitioning, and lineage divergence: Sox9 in stickleback and zebrafish. *Dev. Dyn.* 228, 480-9.
157. Canestro, C., Bassham, S., and Postlethwait, J. H. (2003) Seeing chordate evolution through the Ciona genome sequence. *Genome Biol.* 4, 208.

2002

158. Postlethwait, J., Amores, A., Yan, Y., and Austin, C. A. (2002) Duplication of a portion of human chromosome 20q containing topoisomerase (top1) and snail genes provides evidence on genome expansion and the radiation of teleost fish. In "Aquatic Genomics" (N. Shimizu, T. Aoki, I. Hirano, and F. Takashima, Eds.) Springer, Tokyo.
159. Willot, V., Mathieu, J., Lu, Y., Schmid, B., Sidi, S., Yan, Y. L., Postlethwait, J. H., Mullins, M., Rosa, F., and Peyrieras, N. (2002) Cooperative action of ADMP- and BMP-mediated pathways in regulating cell fates in the zebrafish gastrula. *Dev. Biol.* 241, 59-78.
160. Udovic, D., Morris, D., Dickeman, A., Postlethwait, J., and Wetherwax, P. (2002) Workshop Biology: Demonstrating the effectiveness of active learning in an introductory biology course. *BioScience* 272-281.
161. Ringholm, A., Fredriksson, R., Poliakova, N., Yan, Y. L., Postlethwait, J. H., Larhammar, D., and Schioth, H. B. (2002) One melanocortin 4 and two melanocortin 5 receptors from zebrafish show remarkable conservation in structure and pharmacology. *J. Neurochem.* 82, 6-18.
162. Rajarao, J. R., Canfield, V. A., Loppin, B., Thisse, B., Thisse, C., Yan, Y. L., Postlethwait, J. H., and Levenson, R. (2002) Two Na,K-ATPase beta 2 subunit isoforms are differentially expressed within the central nervous system and sensory organs during zebrafish embryogenesis. *Dev. Dyn.* 223, 254-61.
163. Pratt, S., Drejer, A. H., Foott, H., Barut, B., Brownlie, A., Postlethwait, J., Kato, Y., Yamamoto, M., and Zon, L. I. (2002) Isolation and characterization of zebrafish NFE2. *Physiol. Gen.* 91-98.
164. Kalev-Zylinska, M. L., Horsfield, J. A., Flores, M. V., Postlethwait, J. H., Vitas, M. R., Baas, A. M., Crosier, P. S., and Crosier, K. E. (2002) Runx1 is required for zebrafish blood and vessel development and expression of a human RUNX1-CBF2T1 transgene advances a model for studies of leukemogenesis. *Development* 129, 2015-30.
165. Housworth, E. A., and Postlethwait, J. (2002) Measures of synteny conservation between species pairs. *Genetics* 162, 441-8.
166. Yan, Y. L., Yan, Y. L., Miller, C. T., Nissen, R. M., Singer, A., Liu, D., Kirn, A., Draper, B., Willoughby, J., Morcos, P. A., Amsterdam, A., Chung, B. C., Westerfield, M., Haffter, P., Hopkins, N., Kimmel, C., Postlethwait, J. H. (2002) A zebrafish sox9 gene required for cartilage morphogenesis. *Development* 129 (21), 5065-79.
167. Force, A., Amores, A., and Postlethwait, J. H. (2002) Hox cluster organization in the jawless vertebrate *Petromyzon marinus*. *J. Exp. Zool.* 294, 30-46.
168. Duner, T., Conlon, J. M., Kukkonen, J. P., Akerman, K. E., Yan, Y. L., Postlethwait, J. H., and Larhammar, D. (2002) Cloning, structural characterization and functional expression of a zebrafish bradykinin B2-related receptor. *Biochem. J.* 364, 817-24.
169. Singer, A., H. Perlman, Y.-L. Yan, C. Walker, G. Corley-Smith, B. Brandhorst, and J.H. Postlethwait (2002) Sex-specific recombination rates in zebrafish (*Danio rerio*). *Genetics* 160, 649-657.
170. Canfield, V. A., Loppin, B., Thisse, B., Thisse, C., Postlethwait, J. H., Mohideen, M. A., Rajarao, S. J., and Levenson, R. (2002) Na,K-ATPase alpha and beta subunit genes exhibit unique expression patterns during zebrafish embryogenesis. *Mech. Dev.* 116, 51-9.

2001

171. Varga, Z. M., Amores, A., Lewis, K. E., Yan, Y. L., Postlethwait, J. H., Eisen, J. S., and Westerfield, M. (2001) Zebrafish smoothed functions in ventral neural tube specification and axon tract formation. *Development* 128, 3497-509.

172. Topczewski, J., Sepich, D. S., Myers, D. C., Walker, C., Amores, A., Lele, Z., Hammerschmidt, M., Postlethwait, J., and Solnica-Krezel, L. (2001) The zebrafish glypican knypek controls cell polarity during gastrulation movements of convergent extension. *Dev. Cell* 1, 251-64.
173. Rajarao, S. J., Canfield, V. A., Mohideen, M. A., Yan, Y. L., Postlethwait, J. H., Cheng, K. C., and Levenson, R. (2001) The repertoire of Na,K-ATPase alpha and beta subunit genes expressed in the zebrafish, *Danio rerio*. *Genome Res.* 11, 1211-20.
174. Payne, T. L., Postlethwait, J. H., and Yelick, P. C. (2001) Functional characterization and genetic mapping of *alk8*. *Mech. Dev.* 100, 275-89.
175. Oates, A. C., Pratt, S. J., Vail, B., Yan, Y., Ho, R. K., Johnson, S. L., Postlethwait, J. H., and Zon, L. I. (2001) The zebrafish *klf* gene family. *Blood* 98, 1792-801.
176. Kalev, M. L., Horsfield, J. A., Flores, M. C., Postlethwait, J. H., Vitas, M. R., Baas, A. M., Crosier, P. S., and Crosier, K. E. (2001) Runt family transcription factors are required for zebrafish hematopoiesis, and their function is disrupted by a human RUNX1-CBF2T transgene. *Blood* 98, 1892.
177. Henry, C. A., Crawford, B. D., Yan, Y. L., Postlethwait, J., Cooper, M. S., and Hille, M. B. (2001) Roles for zebrafish focal adhesion kinase in notochord and somite morphogenesis. *Dev. Biol.* 240, 474-87.
178. Crosier, P. S., Bardsley, A., Horsfield, J. A., Krassowska, A. K., Lavallie, E. R., Collins-Racie, L. A., Postlethwait, J. H., Yan, Y. L., McCoy, J. M., and Crosier, K. E. (2001) In situ hybridization screen in zebrafish for the selection of genes encoding secreted proteins. *Dev. Dyn.* 222, 637-44.
179. Chiang, E. F., Pai, C. I., Wyatt, M., Yan, Y. L., Postlethwait, J., and Chung, B. (2001) Two *sox9* genes on duplicated zebrafish chromosomes: expression of similar transcription activators in distinct sites. *Dev. Biol.* 229, 149-163.
180. Chiang, E. F., Yan, Y. L., Guiguen, Y., Postlethwait, J., and Chung, B. (2001) Two *Cyp19* (P450 aromatase) genes on duplicated zebrafish chromosomes are expressed in ovary or brain. *Mol. Biol. Evol.* 18, 542-50.
181. Chiang, E. F., Yan, Y. L., Tong, S. K., Hsiao, P. H., Guiguen, Y., Postlethwait, J., and Chung, B. C. (2001) Characterization of duplicated zebrafish *cyp19* genes. *J. Exp. Zool.* 290, 709-14.
182. Bertrand, C., Chatonnet, A., Takke, C., Yan, Y. L., Postlethwait, J., Toutant, J. P., and Cousin, X. (2001) Zebrafish acetylcholinesterase is encoded by a single gene localized on linkage group 7. Gene structure and polymorphism; molecular forms and expression pattern during development. *J. Biol. Chem.* 276, 464-74.
183. Amemiya, C. T., Amores, A., Ota, T., Mueller, G., Garrity, D., Postlethwait, J. H., and Litman, G. W. (2001) Generation of a P1 artificial chromosome library of the Southern pufferfish. *Gene* 272, 283-9.

2000 and before

184. Woods, I. G., Kelly, P. D., Chu, F., Ngo-Hazelett, P., Yan, Y. L., Huang, H., Postlethwait, J. H., and Talbot, W. S. (2000) A comparative map of the zebrafish genome. *Genome Res.* 10, 1903-14.
185. Soderberg, C., Wraith, A., Ringvall, M., Yan, Y. L., Postlethwait, J. H., Brodin, L., and Larhammar, D. (2000) Zebrafish genes for neuropeptide Y and peptide YY reveal origin by chromosome duplication from an ancestral gene linked to the homeobox cluster. *J. Neurochem.* 75, 908-18.
186. Postlethwait, J. H., Woods, I. G., Ngo-Hazelett, P., Yan, Y. L., Kelly, P. D., Chu, F., Huang, H., Hill-Force, A., and Talbot, W. S. (2000) Zebrafish comparative genomics and the origins of vertebrate chromosomes. *Genome Res.* 10:1890-1902.

187. Liao, W., Ho, C. Y., Yan, Y. L., Postlethwait, J., and Stainier, D. Y. (2000) Hhex and scl function in parallel to regulate early endothelial and blood differentiation in zebrafish. *Development* 127, 4303-13.
188. Kelly, P. D., Chu, F., Woods, I. G., Ngo-Hazelett, P., Cardozo, T., Huang, H., Kimm, F., Liao, L., Yan, Y. L., Zhou, Y., Johnson, S. L., Abagyan, R., Schier, A. F., Postlethwait, J. H., and Talbot, W. S. (2000) Genetic linkage mapping of zebrafish genes and ESTs. *Genome Res.* 10, 558-67.
189. de Martino, S., Yan, Y. L., Jowett, T., Postlethwait, J. H., Varga, Z. M., Ashworth, A., and Austin, C. A. (2000) Expression of sox11 gene duplicates in zebrafish suggests the reciprocal loss of ancestral gene expression patterns in development. *Dev. Dyn.* 217, 279-92.
190. Brand, M., Lun, K., Reifers, F., Thisse, B., Thisse, C., Amores, A., Yan, Y. L., and Postlethwait, J. H. (2000) Subdivision of the early zebrafish neural primordium in response to posteriorizing signals. *Eur. J. Neurosci.* 12, 60.
191. Bassham, S., and Postlethwait, J. (2000) Brachyury (T) expression in embryos of a larvacean urochordate, *Oikopleura dioica*, and the ancestral role of T. *Dev. Biol.* 220, 322-32.
192. Starback, P., Lundell, I., Fredriksson, R., Berglund, M. M., Yan, Y. L., Wraith, A., Soderberg, C., Postlethwait, J. H., and Larhammar, D. (1999) Neuropeptide Y receptor subtype with unique properties cloned in the zebrafish: the zYa receptor. *Brain Res. Mol. Brain Res.* 70, 242-52.
193. Postlethwait, J., Amores, A., Force, A., and Yan, Y. L. (1999) The zebrafish genome. *Methods Cell Biol.* 60, 149-63.
194. Postlethwait, J. H., Yan, Y. L., and Gates, M. A. (1999) Using random amplified polymorphic DNAs in zebrafish genomic analysis. *Methods Cell Biol.* 60, 165-79.
195. Oates, A. C., Wollberg, P., Pratt, S. J., Paw, B. H., Johnson, S. L., Ho, R. K., Postlethwait, J. H., Zon, L. I., and Wilks, A. F. (1999) Zebrafish stat3 is expressed in restricted tissues during embryogenesis and stat1 rescues cytokine signaling in a STAT1-deficient human cell line. *Dev. Dyn.* 215, 352-70.
196. Oates, A. C., Brownlie, A., Pratt, S. J., Irvine, D. V., Liao, E. C., Paw, B. H., Dorian, K. J., Johnson, S. L., Postlethwait, J. H., Zon, L. I., and Wilks, A. F. (1999) Gene duplication of zebrafish JAK2 homologs is accompanied by divergent embryonic expression patterns: only jak2a is expressed during erythropoiesis. *Blood* 94, 2622-36.
197. O'Brien, S. J., Eisenberg, J. F., Miyamoto, M., Hedges, S. B., Kumar, S., Wilson, D. E., Menotti-Raymond, M., Murphy, W. J., Nash, W. G., Lyons, L. A., Menninger, J. C., Stanyon, R., Wienberg, J., Copeland, N. G., Jenkins, N. A., Gellin, J., Yerle, M., Andersson, L., Womack, J., Broad, T., Postlethwait, J., Serov, O., Bailey, E., James, M. R., Marshall Graves, J. A., and et al. (1999) Genome maps 10. Comparative genomics. Mammalian radiations. Wall chart. *Science* 286, 463-78.
198. Konig, C., Yan, Y. L., Postlethwait, J., Wendler, S., and Campos-Ortega, J. A. (1999) A recessive mutation leading to vertebral ankylosis in zebrafish is associated with amino acid alterations in the homologue of the human membrane-associated guanylate kinase DLG3. *Mech. Dev.* 86, 17-28.
199. Hukriede, N. A., Joly, L., Tsang, M., Miles, J., Tellis, P., Epstein, J. A., Barbazuk, W. B., Li, F. N., Paw, B., Postlethwait, J. H., Hudson, T. J., Zon, L. I., McPherson, J. D., Chevrette, M., Dawid, I. B., Johnson, S. L., and Ekker, M. (1999) Radiation hybrid mapping of the zebrafish genome. *PNAS USA* 96, 9745-50.
200. Force, A., Lynch, M., Pickett, F. B., Amores, A., Yan, Y. L., and Postlethwait, J. (1999) Preservation of duplicate genes by complementary, degenerative mutations. *Genetics* 151, 1531-45.
201. Delot, E., Kataoka, H., Goutel, C., Yan, Y. L., Postlethwait, J., Wittbrodt, J., and Rosa, F. M. (1999) The BMP-related protein radar: a maintenance factor for dorsal neuroectoderm cells? *Mech. Dev.* 85, 15-25.

202. Davidson, A. J., Postlethwait, J. H., Yan, Y. L., Beier, D. R., van Doren, C., Foernzler, D., Celeste, A. J., Crosier, K. E., and Crosier, P. S. (1999) Isolation of zebrafish *gdf7* and comparative genetic mapping of genes belonging to the growth/differentiation factor 5, 6, 7 subgroup of the TGF-beta superfamily. *Genome Res.* 9, 121-129.
203. Corley-Smith, G. E., Brandhorst, B. P., Walker, C., and Postlethwait, J. H. (1999) Production of haploid and diploid androgenetic zebrafish (including methodology for delayed in vitro fertilization) *Methods Cell Biol.* 59, 45-60.
204. Amores, A., and Postlethwait, J. H. (1999) Banded chromosomes and the zebrafish karyotype. *Methods Cell Biol.* 60, 323-38.
205. Yan, Y. L., Talbot, W. S., Egan, E. S., and Postlethwait, J. H. (1998) Mutant rescue by BAC clone injection in zebrafish. *Genomics* 50, 287-9.
206. Yan, Y. L., Jowett, T., and Postlethwait, J. H. (1998) Ectopic expression of *hoxb2* after retinoic acid treatment or mRNA injection: disruption of hindbrain and craniofacial morphogenesis in zebrafish embryos. *Dev. Dyn.* 213, 370-85.
207. Thompson, M. A., Ransom, D. G., Pratt, S. J., MacLennan, H., Kieran, M. W., Detrich, H. W., 3rd, Vail, B., Huber, T. L., Paw, B., Brownlie, A. J., Oates, A. C., Fritz, A., Gates, M. A., Amores, A., Bahary, N., Talbot, W. S., Her, H., Beier, D. R., Postlethwait, J. H., and Zon, L. I. (1998) The *cloche* and *spadetail* genes differentially affect hematopoiesis and vasculogenesis. *Dev. Biol.* 197, 248-69.
208. Talbot, W. S., Egan, E. S., Gates, M. A., Walker, C., Ullmann, B., Neuhauss, S. C., Kimmel, C. B., and Postlethwait, J. H. (1998) Genetic analysis of chromosomal rearrangements in the cyclops region of the zebrafish genome. *Genetics* 148, 373-80.
209. Risinger, C., Salaneck, E., Soderberg, C., Gates, M., Postlethwait, J. H., and Larhammar, D. (1998) Cloning of two loci for synapse protein Snap25 in zebrafish: comparison of paralogous linkage groups suggests loss of one locus in the mammalian lineage. *J. Neurosci. Res.* 54, 563-73.
210. Postlethwait, J. H., Yan, Y. L., Gates, M. A., Horne, S., Amores, A., Brownlie, A., Donovan, A., Egan, E. S., Force, A., Gong, Z., Goutel, C., Fritz, A., Kelsh, R., Knapik, E., Liao, E., Paw, B., Ransom, D., Singer, A., Thomson, M., Abduljabbar, T. S., Yelick, P., Beier, D., Joly, J. S., Larhammar, D., Rosa, F., Westerfield, M., Zon, L. I., Johnson, S. L., and Talbot, W. S. (1998) Vertebrate genome evolution and the zebrafish gene map. *Nat. Genet.* 18, 345-9.
211. Liao, E. C., Paw, B. H., Oates, A. C., Pratt, S. J., Postlethwait, J. H., and Zon, L. I. (1998) SCL/Tal-1 transcription factor acts downstream of *cloche* to specify hematopoietic and vascular progenitors in zebrafish. *Genes Dev.* 12, 621-6.
212. Lee, K., H, Marden, J., Thompson, M., MacLennan, H., Kishimoto, Y., Pratt, S., Schulte-Merker, S., Hammerschmidt, M., Johnson, S., and Postlethwait, J. (1998) Cloning and genetic mapping of zebrafish BMP-2. *Dev. Genet.* 97-103.
213. Fornzler, D., Her, H., Knapik, E. W., Clark, M., Lehrach, H., Postlethwait, J. H., Zon, L. I., and Beier, D. R. (1998) Gene mapping in zebrafish using single-strand conformation polymorphism analysis. *Genomics* 51, 216-22.
214. Amores, A., Force, A., Yan, Y. L., Joly, L., Amemiya, C., Fritz, A., Ho, R. K., Langeland, J., Prince, V., Wang, Y. L., Westerfield, M., Ekker, M., and Postlethwait, J. H. (1998) Zebrafish *hox* clusters and vertebrate genome evolution. *Science* 282, 1711-4.
215. Schofield, R. M., Postlethwait, J. H., and Lefevre, H. W. (1997) MeV-ion microprobe analyses of whole *Drosophila* suggest that zinc and copper accumulation is regulated storage not deposit excretion. *J. Exp. Biol.* 200, 3235-43.
216. Postlethwait, J. H., and Talbot, W. S. (1997) Zebrafish genomics: from mutants to genes. *Trends Genet.* 13, 183-90.

217. Halpern, M. E., Hatta, K., Amacher, S. L., Talbot, W. S., Yan, Y. L., Thisse, B., Thisse, C., Postlethwait, J. H., and Kimmel, C. B. (1997) Genetic interactions in zebrafish midline development. *Dev. Biol.* 187, 154-70.
218. Bingulac-Popovic, J., Figueroa, F., Sato, A., Talbot, W. S., Johnson, S. L., Gates, M., Postlethwait, J. H., and Klein, J. (1997) Mapping of mhc class I and class II regions to different linkage groups in the zebrafish, *Danio rerio*. *Immunogenetics* 46, 129-34.
219. Johnson, S. L., Gates, M. A., Johnson, M., Talbot, W. S., Horne, S., Baik, K., Rude, S., Wong, J. R., and Postlethwait, J. H. (1996) Centromere-linkage analysis and consolidation of the zebrafish genetic map. *Genetics* 142, 1277-88.
220. Yan, Y. L., Hatta, K., Riggleman, B., and Postlethwait, J. H. (1995) Expression of a type II collagen gene in the zebrafish embryonic axis. *Dev. Dyn.* 203, 363-76.
221. Thisse, C., Thisse, B., and Postlethwait, J. H. (1995) Expression of snail2, a second member of the zebrafish snail family, in cephalic mesendoderm and presumptive neural crest of wild-type and spadetail mutant embryos. *Dev. Biol.* 172, 86-99.
222. Talbot, W. S., Trevarrow, B., Halpern, M. E., Melby, A. E., Farr, G., Postlethwait, J. H., Jowett, T., Kimmel, C. B., and Kimelman, D. (1995) A homeobox gene essential for zebrafish notochord development. *Nature* 378, 150-7.
223. Johnson, S. L., Africa, D., Horne, S., and Postlethwait, J. H. (1995) Half-tetrad analysis in zebrafish: mapping the ros mutation and the centromere of linkage group I. *Genetics* 139, 1727-35.
224. Halpern, M. E., Thisse, C., Ho, R. K., Thisse, B., Riggleman, B., Trevarrow, B., Weinberg, E. S., Postlethwait, J. H., and Kimmel, C. B. (1995) Cell-autonomous shift from axial to paraxial mesodermal development in zebrafish floating head mutants. *Development* 121, 4257-64.
225. Thisse, C., Thisse, B., Halpern, M. E., and Postlethwait, J. H. (1994) Goosecoid expression in neurectoderm and mesendoderm is disrupted in zebrafish cyclops gastrulas. *Dev. Biol.* 164, 420-9.
226. Postlethwait, J. H., Johnson, S. L., Midson, C. N., Talbot, W. S., Gates, M., Ballinger, E. W., Africa, D., Andrews, R., Carl, T., Eisen, J. S., and et al. (1994) A genetic linkage map for the zebrafish. *Science* 264, 699-703.
227. Johnson, S. L., Midson, C. N., Ballinger, E. W., and Postlethwait, J. H. (1994) Identification of RAPD primers that reveal extensive polymorphisms between laboratory strains of zebrafish. *Genomics* 19, 152-6.
228. Thisse, C., Thisse, B., Schilling, T. F., and Postlethwait, J. H. (1993) Structure of the zebrafish snail1 gene and its expression in wild-type, spadetail and no tail mutant embryos. *Development* 119, 1203-15.
229. Yan, Y. L., and Postlethwait, J. H. (1990) Vitellogenesis in *Drosophila*: sequestration of a yolk polypeptide/invertase fusion protein into developing oocytes. *Dev. Biol.* 140, 281-90.
230. Postlethwait, J., Saul, S., and Postlethwait, J. (1988) The antibacterial immune response of the Mediterranean fruit fly (*Ceratitis capitata*). *J. Insect Physiol.* 34, 91-96.
231. Yan, Y. L., Kunert, C. J., and Postlethwait, J. H. (1987) Sequence homologies among the three yolk polypeptide (Yp) genes in *Drosophila melanogaster*. *Nucleic Acids Res.* 15, 67-85.
232. Postlethwait, J., Saul, S., Robertson, M., Grace, D., Abrams, K., and Brandenburg, E. (1987) Mechanisms of Immunity in *Drosophila* and Mediterranean Fruit Flies. In "Biotechnology in Crop Protein", Vol. ACS Symposium Series. ACS Publications.
233. Postlethwait, J., and Parker, J. (1987) Regulation of vitellogenesis in *Drosophila*. UCLA Symposia on Molecular and Cellular Biology. *Molec. Biol. Invert. Devel.* 29-42.
234. Postlethwait, J. (1987) Hormone and sex-specific gene regulation in *Drosophila*. *Proceedings of the 1st Congress of the Asia and Oceania Society for Comparative Endocrinology.* 11-14.

235. Robertson, M., and Postlethwait, J. H. (1986) The humoral antibacterial response of *Drosophila* adults. *Dev Comp Immunol* 10, 167-79.
236. Postlethwait, J. H., and Kunert, C. J. (1986) Endocrine and genetic regulation of vitellogenesis in *Drosophila*. *Prog Clin Biol Res* 205, 33-52.
237. Giorgi, F., Andolfi, P., Spinettie, I., Masetti, M., and Postlethwait, J. (1986) In Vivo uptake of haemolymph from a female sterile mutant into wild-type ovaries of *Drosophila melanogaster*. *J. Insect Physiol* 59-70.
238. Tamura, T., Kunert, C., and Postlethwait, J. (1985) Sex- and cell-specific regulation of yolk polypeptide genes introduced into *Drosophila* by P-element-mediated gene transfer. *PNAS USA* 82, 7000-4.
239. Postlethwait, J. H., and Giorgi, F. (1985) Vitellogenesis in insects. *Dev Biol* (N Y 1985) 1:85-126.
240. Minoo, P., and Postlethwait, J. (1985) Biosynthesis of *Drosophila* yolk polypeptides. *Arch Insect Biochem and Physiol* 7-27.
241. Minoo, P., and Postlethwait, J. H. (1985) Processing and secretion of a mutant yolk polypeptide in *Drosophila*. *Biochem Genet* 23, 913-32.
242. Johns, M. A., and Postlethwait, J. H. (1985) Naturally occurring quantitative variants of acid phosphatase-1 in *Drosophila melanogaster*. *Biochem Genet* 23, 465-82.
243. Giorgi, F., and Postlethwait, J. (1985) Yolk polypeptide secretion and vitelline membrane deposition in a female sterile *Drosophila* mutant. *Devel Genet* 133-150.
244. Giorgi, F., and Postlethwait, J. H. (1985) Development of gap junctions in normal and mutant ovaries of *Drosophila melanogaster*. *J Morphol* 185, 115-29.
245. Zhai, Q., Postlethwait, J., and Bodley, J. (1984) Vitellogenin synthesis in the lady beetle *Coccinella septempunctata*. *Biochem and Physiol* 7-27.
246. Shirk, P. D., Minoo, P., and Postlethwait, J. H. (1983) 20-Hydroxyecdysone stimulates the accumulation of translatable yolk polypeptide gene transcript in adult male *Drosophila melanogaster*. *PNAS USA* 80, 186-90.
247. Jowett, T., Postlethwait, J. H., and Roberts, D. B. (1982) Hormonal regulation of a larval haemolymph protein in *Drosophila*. *Prog Clin Biol Res* 85 Pt A, 373-380.
248. Postlethwait, J. H., and Jowett, T. (1981) Regulation of vitellogenesis in *Drosophila*. In "Scientific Papers of the Institute of Organic and Physical Chemistry of Wroclaw Technical University", Vol. No. 22, pp. 591-627.
249. Postlethwait, J., and Shirk, P. D. (1981) Genetic and endocrine regulation of vitellogenesis in *Drosophila*. *Am Zool.* 687-700.
250. Jowett, T., and Postlethwait, J. H. (1981) Hormonal regulation of synthesis of yolk proteins and a larval serum protein (LSP2) in *Drosophila*. *Nature* 292, 633-5.
251. Postlethwait, J. H. (1980) Genetic analysis of *Drosophila* vitellogenesis: a molecular weight variant of yolk polypeptide-2 in *Drosophila simulans*. *Mol Gen Genet* 178, 253-60.
252. Postlethwait, J. H., Lauge, G., and Handler, A. M. (1980) Yolk protein synthesis in ovariectomized and genetically agametic [X87] *Drosophila melanogaster*. *Gen Comp Endocrinol* 40, 385-90.
253. Postlethwait, J. H., and Jowett, T. (1980) Genetic analysis of the hormonally regulated yolk polypeptide genes in *D. melanogaster*. *Cell* 20, 671-8.
254. Postlethwait, J. H., Bownes, M., and Jowett, T. (1980) Sexual phenotype and vitellogenin synthesis in *Drosophila melanogaster*. *Dev Biol* 79, 379-87.
255. Jowett, T., and Postlethwait, J. H. (1980) The Regulation of yolk polypeptide synthesis in *Drosophila* ovaries and fat body by 20-hydroxyecdysone and a juvenile hormone analog. *Dev Biol* 80, 225-34.

256. Feigen, M. I., Johns, M. A., Postlethwait, J. H., and Sederoff, R. R. (1980) Purification and characterization of acid phosphatase-1 from *Drosophila melanogaster*. *J Biol Chem* 255, 10338-43.
257. Postlethwait, J. (1979) Postlethwait, J.H. (1979) Clonal analysis of *Drosophila* cuticular patterns. In *Genetics and Biology of Drosophila*, Vol. 2C, Ashburner and Wright, eds. Academic Press: London, pp. 359-442.
258. Postlethwait, J., and Handler, A. M. (1979) The roles of juvenile hormone and ecdysterone during vitellogenesis in isolated abdomens of *Drosophila melanogaster*. *J Insect Physiol* 455-460.
259. Postlethwait, J. (1978) Development of cuticular patterns in legs of a cell lethal mutant of *Drosophila melanogaster*. *Wilhelm Roux Arch* 37-57.
260. Postlethwait, J. H., and Jones, G. J. (1978) Endocrine control of larval fat body histolysis in normal and mutant *Drosophila melanogaster*. *J Exp Zool* 203, 207-14.
261. Postlethwait, J. H., and Handler, A. M. (1978) Nonvitellogenic female sterile mutants and the regulation of vitellogenesis in *Drosophila melanogaster*. *Dev Biol* 67, 202-13.
262. Postlethwait, J. H., and Kaschnitz, R. (1978) The synthesis of *Drosophila melanogaster* vitellogenins in vivo, in culture, and in a cell-free translation system. *FEBS Lett* 95, 247-51.
263. Handler, A. M., and Postlethwait, J. (1978) Regulation of vitellogenin synthesis in *Drosophila* by ecdysterone and juvenile hormone. *J Exp Zool* 247-254.
264. Handler, A. M., and Postlethwait, J. H. (1977) Endocrine control of vitellogenesis in *Drosophila melanogaster*: effects of the brain and corpus allatum. *J Exp Zool* 202, 389-402.
265. Postlethwait, J., Handler, A. M., and Gray, P. (1976) A genetic approach to the study of juvenile hormone control of vitellogenesis in *Drosophila melanogaster*. In The Juvenile Hormones (L. Gilbert, Ed.), pp. 449-469. Plenum Press, New York.
266. Postlethwait, J. (1975) Pattern formation in the wing and haltere imaginal discs after irradiation of *Drosophila melanogaster* first instar larvae. *Wilhelm Roux Arch* 29-50.
267. Postlethwait, J. H., and Gray, P. (1975) Regulation of acid phosphatase activity in the ovary of *Drosophila melanogaster*. *Dev Biol* 47, 196-205.
268. Postlethwait, J. H. (1974) Development of the temperature-sensitive homoeotic mutant ophthalmoptera of *Drosophila melanogaster*. *Dev Biol* 36, 212-7.
269. Postlethwait, J. H., and Girton, J. R. (1974) Development in genetic mosaics of aristapedia, a homoeotic mutant of *Drosophila melanogaster*. *Genetics* 76, 767-74.
270. Postlethwait, J. H. (1974) Juvenile hormone and the adult development of *Drosophila*. *Biol Bull* 147, 119-35.
271. Postlethwait, J. (1973) Molting of *Drosophila* first instar cuticle induced by a metamorphosing host. *DIS* 186-187.
272. Postlethwait, J. (1973) Effects of juvenile endocrine organs and juvenile hormone on the metamorphosis of *Drosophila*. *DIS* 174-176.
273. Postlethwait, J. (1973) A quantitative juvenile hormone assay on *Drosophila*. *DIS* 186-187.
274. Postlethwait, J. H., and Schneiderman, H. A. (1973) Developmental genetics of *Drosophila* imaginal discs. *Annu Rev Genet* 7, 381-433.
275. Postlethwait, J. H., and Schneiderman, H. A. (1973) Pattern formation in imaginal discs of *Drosophila melanogaster* after irradiation of embryos and young larvae. *Dev Biol* 32, 345-60.
276. Postlethwait, J. H., and Weiser, K. (1973) Vitellogenesis induced by juvenile hormone in the female sterile mutant apterous-four in *Drosophila melanogaster*. *Nat New Biol* 244, 284-5.

277. Guerra, M., Postlethwait, J. H., and Schneiderman, H. A. (1973) The development of the imaginal abdomen of *Drosophila melanogaster*. *Dev Biol* 32, 361-72.
278. Postlethwait, J. H., Bryant, P. J., and Schubiger, G. (1972) The homoeotic effect of "tumorous head" in *Drosophila melanogaster*. *Dev Biol* 29, 337-42.
279. Postlethwait, J. H., and Schneiderman, H. A. (1971) A clonal analysis of development in *Drosophila melanogaster*: morphogenesis, determination, and growth in the wild-type antenna. *Dev Biol* 24, 477-519.
280. Postlethwait, J. H., and Schneiderman, H. A. (1971) Pattern formation and determination in the antenna of the homoeotic mutant *Antennapedia* of *Drosophila melanogaster*. *Dev Biol* 25, 606-40.
281. Postlethwait, J. H., Poodry, C. A., and Schneiderman, H. A. (1971) Cellular dynamics of pattern duplication in imaginal discs of *Drosophila melanogaster*. *Dev Biol* 26, 125-32.
282. Postlethwait, J. H., and Schneiderman, H. A. (1970) Induction of metamorphosis by ecdysone analogues. *Drosophila* imaginal discs cultured in vivo. *Biol Bull* 138, 47-55.
283. Postlethwait, J. H., and Schneiderman, H. A. (1969) A clonal analysis of determination in *Antennapedia* a homoeotic mutant of *Drosophila melanogaster*. *PNAS USA* 64, 176-83.

Top Ten Hits Overall (Source: Google Scholar, 2017 03 29)

Times cited	Authors, Title, Reference
2795	Force, A., Lynch, M., Pickett, F. B., Amores, A., Yan, Y. L., and Postlethwait, J. (1999) Preservation of duplicate genes by complementary, degenerative mutations. <i>Genetics</i> 151, 1531-45.
1506	Amores, A., Force, A., Yan, Y. L., Joly, L., Amemiya, C., Fritz, A., Ho, R. K., Langeland, J., Prince, V., Wang, Y. L., Westerfield, M., Ekker, M., and Postlethwait, J. H. (1998) Zebrafish hox clusters and vertebrate genome evolution. <i>Science</i> 282, 1711-4.
892	Howe K, Clark MD, Torroja CF, Torrance J, Berthelot C, Muffato M, et al. The zebrafish reference genome sequence and its relationship to the human genome. <i>Nature</i> . 2013;496(7446):498-503
843	Thisse, C., Thisse, B., Schilling, T. F., and Postlethwait, J. H. (1993) Structure of the zebrafish <i>snail1</i> gene and its expression in wild-type, <i>spadetail</i> and <i>no tail</i> mutant embryos. <i>Development</i> 119, 1203-15.
757	Postlethwait, J. H. , Yan, Y. L., Gates, M. A., Horne, S., Amores, A., Brownlie, A., Donovan, A., Egan, E. S., Force, A., Gong, Z., Goutel, C., Fritz, A., Kelsh, R., Knapik, E., Liao, E., Paw, B., Ransom, D., Singer, A., Thomson, M., Abduljabbar, T. S., Yelick, P., Beier, D., Joly, J. S., Larhammar, D., Rosa, F., Westerfield, M., Zon, L. I., Johnson, S. L., and Talbot, W. S. (1998) Vertebrate genome evolution and the zebrafish gene map. <i>Nat. Genet.</i> 18, 345-9.
529	Postlethwait, J. H. , Woods, I. G., Ngo-Hazelett, P., Yan, Y. L., Kelly, P. D., Chu, F., Huang, H., Hill-Force, A., and Talbot, W. S. (2000) Zebrafish comparative genomics and the origins of vertebrate chromosomes. <i>Genome Res.</i> 10:1890-1902.
510	Catchen, J., Amores, A., Hohenlohe, P., Cresko, W., and Postlethwait, J.H. (2011) Stacks: building and genotyping loci de novo from short-read sequences. <i>G3</i> 1:171-182. PMC3276136.
436	Postlethwait, J. H. , Johnson, S. L., Midson, C. N., Talbot, W. S., Gates, M., Ballinger, E. W., Africa, D., Andrews, R., Carl, T., Eisen, J. S., and et al. (1994) A genetic linkage map for the zebrafish. <i>Science</i> 264, 699-703.

423	Thompson MA, Ransom DG, Pratt SJ, MacLennan H, Kieran MW, Detrich HW 3rd, Vail B, Huber TL, Paw B, Brownlie AJ, Oates AC, Fritz A, Gates MA, Amores A, Bahary N, Talbot WS, Her H, Beier DR, Postlethwait JH, Zon LI. (1998) The cloche and spadetail genes differentially affect hematopoiesis and vasculogenesis. <i>Dev Biol.</i> 1998 May 15;197(2):248-69.
393	Woods, I. G., Kelly, P. D., Chu, F., Ngo-Hazelett, P., Yan, Y. L., Huang, H., Postlethwait , J. H., and Talbot, W. S. (2000) A comparative map of the zebrafish genome. <i>Genome Res.</i> 10, 1903-14.

Top Ten Hits 2008-2017 (Source: Google Scholar, 2017 03 29)

Times cited	Authors, Title, Reference
892	Howe K, Clark MD, Torroja CF, Tarrance J, Berthelot C, Muffato M, et al. The zebrafish reference genome sequence and its relationship to the human genome. <i>Nature.</i> 2013;496(7446):498-503.
510	Catchen JM, Amores A, Hohenlohe P, Cresko W, Postlethwait JH. Stacks: building and genotyping loci de novo from short-read sequences. <i>G3: Genes, Genomes, Genetics.</i> 2011;1(3):171-82.
306	Amemiya CT, Alföldi J, Lee AP, Fan S, Philippe H, MacCallum I, et al. The African coelacanth genome provides insights into tetrapod evolution. <i>Nature.</i> 2013;496(7445):311-6.
223	Eberhart JK, He X, Swartz ME, Yan Y-L, Song H, Boling TC, et al. MicroRNA Mirn140 modulates Pdgf signaling during palatogenesis. <i>Nat Genet.</i> 2008;40(3):290-8.
211	Amores A, Catchen J, Ferrara A, Fontenot Q, Postlethwait JH. Genome evolution and meiotic maps by massively parallel DNA sequencing: spotted gar, an outgroup for the teleost genome duplication. <i>Genetics.</i> 2011;188(4):799-808.
157	Catchen JM, Conery JS, Postlethwait JH. Automated identification of conserved synteny after whole-genome duplication. <i>Genome research.</i> 2009;19(8):1497-505.
155	Denoeud F, Henriot S, Mungpakdee S, Aury J-M, Da Silva C, Brinkmann H, et al. Plasticity of animal genome architecture unmasked by rapid evolution of a pelagic tunicate. <i>Science.</i> 2010;330(6009):1381-5.
93	Anderson JL, Rodríguez Marí A, Braasch I, Amores A, Hohenlohe P, Batzel P, et al. Multiple sex-associated regions and a putative sex chromosome in zebrafish revealed by RAD mapping and population genomics. <i>PLoS One.</i> 2012;7(7):e40701-e.
91	Sullivan C, Charette J, Catchen J, Lage CR, Giasson G, Postlethwait JH, et al. The gene history of zebrafish tlr4a and tlr4b is predictive of their divergent functions. <i>The Journal of Immunology.</i> 2009;183(9):5896-908.
80	Nakamura Y, Yamamoto K, He X, Otsuki B, Kim Y, Murao H, Soeda T, Tsumaki N, Deng JM, Zhang Z, Behringer RR, Crombrughe B, Postlethwait JH, Warman ML, Nakamura T, Akiyama H. (2011) Wwp2 is essential for palatogenesis mediated by the interaction between Sox9 and mediator subunit 25. <i>Nat Commun.</i> 2:251.

Books

1. Postlethwait, J., and Hopson, J. (2006) *Modern Biology*. Bolt, Rinehart and Winston, Orlando. (A biology textbook for high schools)
2. Postlethwait, J. and Hopson, J. (2005) *Life!* RCS Libri S.p.A-Milano. (Italian high school biology text)
3. Postlethwait, J., and Hopson, J. (2003) *Explore Life*. Brooks/Cole Thompson Learning.
4. Postlethwait, J. and Hopson, J. (2000) *Corso di Biologia*, McGraw-Hill editore, 2000 (In Italian).

5. Postlethwait, J. and Hopson, J. (1997) *Corso di Biologia*, McGraw-Hill Italia srl, piazza Emilia, 5, 20129 Milano. (Italian high school biology text)
6. Postlethwait, J., Hopson, J., and Veres, R. (1993) *Scienza Della Vita*, McGraw-Hill Italia srl, piazza Emilia, 5, 20129 Milano. (Italian high school biology text)
7. Postlethwait, J., and Hopson, J. (1992, 1995) *The Nature of Life*. McGraw Hill, New York.
8. Postlethwait, J., Hopson, J., and Veres, R. (1992) *Biologia*, Per Le Scuole Medie Superiori, McGraw-Hill Italia srl, piazza Emilia, 5, 20129 Milano. (Italian high school biology text).
9. Postlethwait, J., Hopson, J., and Veres, R. (1991) *Biology! Bringing Science to Life*. McGraw-Hill, New York.