

Curriculum Vitae

G. DAVID JOHNSON

Division of Fishes, Vertebrate Zoology, NMNH

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Major Professional Interests/Areas of Expertise

Systematics and early life history of teleost fishes, particularly acanthomorphs, with a central focus on comparative anatomy, ontogeny, phylogenetic reconstruction and classification.

Current Position

Curator/Research Scientist, October 1983. GS-15

Previous Professional Positions

Chairman, Department of Vertebrate Zoology, NMNH, Smithsonian Institution. 1992-1999.

Assistant Marine Scientist, 1978-83. South Carolina Marine Resources Research Institute, Charleston, SC.

Postdoctoral Fellow, 1977-78. NMNH, Smithsonian Institution.

Research Associate, 1975-77. Chesapeake Biological Laboratory, University of Maryland.

Reptile Keeper, 1969-1970. Houston Zoo, Houston, TX.

Boat Officer (Ltjg), 1967-69. United States Navy, USS Tanner, Hydrographic Survey Ship.

Associate and Adjunct Positions

Adjunct Research Associate, Kansas University Biodiversity Institute – 2004-present.

Educational History

Ph.D. in Marine Biology, 1977. Scripps Institution of Oceanography, University of California at San Diego, 1970-1975.

B.A. in Zoology, 1967. University of Texas at Austin, 1963-1967.

Peer Reviewed Publications

1. Rosenblatt, R. H. and **G. D. Johnson**. 1974. Two new species of sea basses of the genus *Diplectrum*, with a key to the Pacific species. Calif. Fish and Game, 60(4): 178-191.
2. **Johnson, G. D.** 1975. The procurrent spur: an undescribed perciform caudal character and its phylogenetic implications. Occ. Pap. Calif. Acad. Sci. 121: 23 pp.

3. Rosenblatt, R. H. and **G. D. Johnson**. 1976. Anatomical considerations of pectoral swimming in the opah, *Lampris guttatus*. Copeia, 1976(2): 367-370.
4. Anderson, W. D., Jr., H. T. Kami, and **G. D. Johnson**. 1977. A new genus of Pacific Etelinae (Pisces: Lutjanidae) with redescription of the type-species. Proc. Bio. Soc. Wash. 90(1): 89-98.
5. Anderson, W. D., Jr., P. K. Talwar, and **G. D. Johnson**. 1977. A replacement name for *Tangia* Chan (Pisces: Perciformes: Lutjanidae) with redescriptions of the genus and type species. Proc. Bio. Soc. Wash. 90(1): 509-518.
6. **Johnson, G. D.** 1978. Development of Fishes of the Mid-Atlantic Bight: an atlas of egg, larval and juvenile stages. Vol. IV, Carangidae through Ehippidae. U.S. Fish and Wildlife Service, Office of Biological Sciences. FWS/OB5-78/12. 314pp.
7. Fritzsche, R. A. and **G. D. Johnson**. 1979. Striped bass vs. white perch: Application of a new morphological approach to ichthyoplankton taxonomy. Proc. Second Symposium on Larval Fish. TVA.
8. Fritzsche, R. A. and **G. D. Johnson**. 1980. Early osteological development of white perch and striped bass with emphasis on identification of their larvae. Trans. Am. Fish. Soc. 109: 397-406.
9. **Johnson, G. D.** 1981. Limits and relationships of the Lutjanidae and associated families. Scripps Bull. 24: 104pp.
10. Fritzsche, R. A. and **G. D. Johnson**. 1981. *Pseudopriacanthus* Bleeker, a synonym of the priacanthid genus *Pristigenys* Agassiz. Copeia 1981 (2): 490-492.
11. **Johnson, G. D.** 1983. *Niphon spinosus*: a primitive epinepheline serranid, with comments on the monophyly and intrarelationships of the Serranidae. Copeia, 1983(3): 777-787.
12. **Johnson, G. D.** 1984. Percoidei: development and relationships. In Ontogeny and Systematics of Fishes (H.G. Moser et al., eds.). Special Publication no. 1, American Society of Ichthyologists and Herpetologists, pp.464-498.
13. **Johnson, G. D.** and P. Keener. 1984. Aid to identification of American grouper larvae. Bull. Mar. Sci. 34(1): 106-134.
14. Anderson, W. D., Jr. and **G. D. Johnson**. 1984. A new species of *Callanthias* (Pisces: Percoidei: Callanthiidae) from the southeastern Pacific Ocean. Proc. Bio. Soc. Wash. 97(4): 942-950.
15. **Johnson, G. D.** 1986. Scombroid phylogeny: an alternative hypothesis. Bull. Mar. Sci. 39(1): 1-41.

16. **Johnson, G. D.** and W.F. Smith-Vaniz. 1987. Redescription and relationships of *Parasphyraenops atrimanus* Bean (Pisces: Serranidae), with a discussion of other Bermudian fishes known only from stomach contents. Bull. Mar. Sci. 40(1): 48-58.
17. **Johnson, G. D.** and B. B. Washington. 1987. The larvae of *Zanclus cornutus* (Linnaeus), including a comparison with other larval acanthuroids. Bull. Mar. Sci. 40(3): 494-511.
18. **Johnson, G. D.** 1988. *Niphon spinosus*, a primitive epinepheline serranid: corroborative evidence from the larvae. Jap. Jour. Ichthyol. 35(1): 7-18.
19. **Johnson, G. D.** and R. H. Rosenblatt. 1988. Mechanisms of light organ occlusion in flashlight fishes, family Anomalopidae (Teleostei: Beryciformes), and the evolution of the family. Zool. J. Linn. Soc. 94: 65-96.
20. Keener, P., **G. D. Johnson**, B.W. Stender, E.B. Brothers and H.R. Beatty. 1988. Ingress of postlarval gag, *Mycteroperca microlepis* (Pisces: Serranidae), through a South Carolina barrier island inlet. Bull. Mar. Sci. 42(3): 376-396.
21. ***Smith-Vaniz, W. F., **G. D. Johnson** and J. E. Randall. 1988. Redescription of *Gracila albomarginata* (Fowler and Bean) and *Cephalopholis polleni* (Bleeker) with comments on the generic limits of selected Indo-Pacific groupers (Pisces: Serranidae: Epinephelinae). Proc. Acad. Nat. Sci. Phila. 140(2): 1-23.
22. Zug, G. R., V. G. Springer, J. T. Williams and **G. D. Johnson**. 1989. The vertebrates of Rotuma and surrounding waters. Atoll Res. Bull. 316: 1-25
23. **Johnson, G. D.** and E. B. Brothers. 1989. *Acanthemblemaria paula*, A new diminutive chaenopsid (Pisces: Blennioidei) from Belize, with comments on life history. Proc. Bio. Soc. Wash. 102(4): 1018-1030.
24. **Johnson, G. D.** and R.A. Fritzsche. 1989. *Graus nigra* Philippi, an omnivorous girellid, with comments on relationships of the Girellidae (Pisces:Perciformes). Proc. Acad. Nat. Sci. Phila. 141: 1-27.
25. **Johnson, G. D.** and B. B. Washington. 1989. Zanclidae - moorish idol. pp. 285-290. In "The larvae of Indo-Pacific shorefishes" (Leis, J.M. and T. Trnski,eds.) New South Wales Univ. Press and Univ. Hawaii Press.
26. Randall, J. E., **G. D. Johnson** and G. R. Lowe. 1989. *Triso*, a new generic name for the antitropical, western Pacific serranid fish previously known as *Trisotropis dermopterus*, with comments on its relationships. Japan. J. Ichthyol. 35(4): 414-420.

27. Tyler, J. C., **G. D. Johnson**, I. Nakamura, and B. B. Collette. 1989. Morphology of *Luvarus imperialis* (Luvaridae), with a phylogenetic analysis of the Acanthuroidei (Pisces). *Smithsonian Contrib. Zool.* 485: 1-78.
28. Smith-Vaniz, W. F. and **G. D. Johnson**. 1990. Two new species of Acanthoclininae (Pisces: Plesiopidae) with a synopsis and phylogeny of the subfamily. *Proc. Acad. Nat. Sci. Phila.* 142: 211-260.
29. Baldwin, C. and **G. D. Johnson** and Colin, P. L. 1991. Larvae of *Diploprion bifasciatum*, *Belonoperca chabanaudi* and *Grammistes sexlineatus* (Serranidae: Epinephelinae) with a comparison of known larvae of other epinephelines. *Bull. Mar. Sci.* 48 (1): 67-93.
30. Baldwin, C. and **G. D. Johnson**. 1991. A larva of the poorly known serranid fish *Jeboehlkia gladifer* (Teleostei: Serranidae: Epinephelinae). *Fish. Bull.* 89: 535-537.
31. Poss, S. G. and **G. D. Johnson**. 1991. *Matsubarichthys inusitatus*, a new genus and species of velvetfish (Scorpaeniformes: Aploactinidae) from the Great Barrier Reef. *Proc. Bio. Soc. Wash.* 104 (3): 468-473.
32. Rosenblatt, R. H. and **G. D. Johnson**. 1991. *Parmops coruscans*, a new genus and species of flashlight fish (Beryciformes: Anomalopidae) from the South Pacific. *Proc. Bio. Soc. Wash.* 104 (2): 328-334.
33. **Johnson, G. D.** 1992. Monophyly of the euteleostean clades - Neoteleostei, Eurypterygii, and Ctenosquamata. *Copeia* 1992: 8-25.
34. **Johnson, G. D.** 1993. Percomorph phylogeny: progress and problems. *Bull. Mar. Sci.* 52 (1): 3-28.
35. **Johnson, G. D.** and E. B. Brothers. 1993. *Schindleria*: a paedomorphic goby. *Bull. Mar. Sci.* 52 (1): 441-471.
36. **Johnson, G. D.** and C. Patterson. 1993. Percomorph phylogeny: a survey of acanthomorphs and a new proposal. *Bull. Mar. Sci.* 52 (1): 554-626.
37. Baldwin, C. and **G. D. Johnson**. 1993. Phylogeny of the Epinephelinae (Teleostei: Serranidae). *Bull. Mar. Sci.* 52 (1): 240-283.
38. Olney, J. E., **G. D. Johnson**, and C. Baldwin. 1993. Phylogeny of lampridiform fishes. *Bull. Mar. Sci.* 52: 137-169.
39. Tyler, J. C., **G. D. Johnson**, E. B. Brothers, D. Tyler, and C. L. Smith. 1993. Comparative early life histories of western Atlantic squirrelfishes (Holocentridae): Age and settlement of rhynchichthys, meeki, and juvenile stages. *Bull. Mar. Sci.* 53 (3): 1126-1150.

40. **Johnson, G. D.** and C. Baldwin. 1994. Accounting for Endothermy in Fishes. *Science* 265: 1249-1250.
41. Baldwin, C. and **G. D. Johnson**. 1995. A larva of the Atlantic flashlight fish, *Kryptophanaron alfredi* (Beryciformes: Anomalopidae), with a comparison of beryciform and stephanoberyciform larvae. *Bull. Mar. Sci.* 56 (1): 1-24.
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43. **Johnson, G. D.**, C. Baldwin, M. Okiyama, and Y. Tominaga. 1996. Osteology and relationship of *Pseudotrichonotus altivelis* (Teleostei: Aulopiformes: Pseudotrichonotidae). *Ichthyol. Res.* 43: 17-45.
44. **Johnson, G. D.** and C. Patterson. 1996. Relationships of lower euteleostean fishes. **In** "Interrelationships of Fishes" (M. L. J. Stiassny, L. Parenti, and **G. D. Johnson**, eds.), pp 251-332. Academic Press, New York.
45. Baldwin, C. C. and **G. D. Johnson**. 1996. Interrelationships of Aulopiformes. **In** "Interrelationships of Fishes" (M. L. J. Stiassny, L. Parenti, and **G. D. Johnson**, eds.), pp 355-404. Academic Press, New York.
46. Stiassny, M. L. J., L. Parenti, and **G. D. Johnson**. 1996. "Interrelationships of Fishes" (M. L. J. Stiassny, L. Parenti, and **G. D. Johnson**, eds) Academic Press, New York. 496pp.
47. **Johnson, G. D.** and C. Patterson. 1997. The gill arches of gonorynchiform fishes. *So. Afr. Jour. Sci.* 93: 594-600.
48. Baldwin, C. C., **G. D. Johnson**, and J. Paxton. 1997. *Protoblepharon rosenblatti*, a new species of flashlight fish (Beryciformes: Anomalopidae) from the tropical South Pacific, with comments on anomalopid phylogeny. *Proc. Bio. Soc. Wash.* 110: 373-383.
49. Mooi, R. D. and **G. D. Johnson**. 1997. Dismantling the Trachinoidei: evidence of a scorpaenoid relationship for the Champsodontidae. *Ichthyol. Res.* 44: 143-176.
50. Patterson, C. and **G. D. Johnson**. 1997. Comments on Begle's "Monophyly and relationships of argentinoid fishes." *Copeia* 1997: 401-409.
51. Patterson, C. and **G. D. Johnson**. 1997. The data, the matrix, and the message: comments on Begle's "Relationships of the osmerid fishes." *Syst. Biol.* 46:358-365.
52. Patterson, C. and Johnson, G.D. **1997**. Monophyly and relationships of Argentinoid fishes - Comment. *Copeia*, 2: 401-409.

53. Wiley, E. O., **G. D. Johnson**, and W. Dimmick. 1998. The phylogenetic relationships of lampridiform fishes (Teleostei: Acanthomorpha), based on a total evidence analysis of morphological and molecular data. *Molec. Phylogen. and Evol.* 10(3): 417-425.
54. Baldwin, C. C. and **G. D. Johnson**. 1999. *Paxton concilians*: A new genus of pseudamine apogonid (Teleostei: Percoidae) from Northwestern Australia: the sister group of the enigmatic *Gymnapogon*. *Copeia* 1999: 1050-1071.
55. Paxton, J. R. and **G. D. Johnson**. 1999. Family Anomalopidae. Flashlight fishes. 2212-2213. **In**: "The living Marine Resources of the Western Central Pacific." (V. Niem and K. Carpenter, eds.). Rome:FAO. Vol. 4.
56. Tang, K. L., P. B. Berendzen, E. O. Wiley, J. F. Morrissey, R. Winterbottom and **G.D. Johnson**. 1999. The phylogenetic relationships of the Suborder Acanthuroidei (Teleostei: Perciformes) based on morphological and molecular evidence. *Molec. Phylogen. and Evol.* 11(3): 415-425.
57. **Johnson, G. D.**, J. M. Leis, and B. B. Washington. 2000. Zanclidae (Moorish idol) pp.683-688 **In** "The larvae of Indo-Pacific coastal fishes" (Leis, J.M. and B. M. Carson-Ewart, eds.) Brill, Leiden.
58. **Johnson, G. D.** 2000. Higher teleosts and adventures in the fish trade. **In**: "A Celebration of the Life of Colin Patterson." pp.39-53. The Linnean, Special Issue No. 2.
59. Paxton, J. R. and **G. D. Johnson**, 2000. Family Anomalopidae. **In**: "The living Marine Resources of the South China Sea. (J. E. Randall and K. P. Lim, eds.). Raffles Bulletin of Zoology Supplement 8. In A checklist of the fishes of the South China Sea. Raffles Bulletin of Zoology, Supplement 8
60. Springer, V. G. and **G. D. Johnson**. 2000. Use and advantage of ethanol solution of alizarin red S dye for staining bone in fishes. *Copeia* 2000: 300-301.
61. Wiley, E. O., **G. D. Johnson**, and W. W. Dimmick. 2000. The interrelationships of acanthomorph fishes: A total evidence approach using molecular and morphological data. *Biochem. Syst. and Ecol.* 28: 319-350.
62. **Johnson, G. D.** and Colin Patterson. 2001. The intermuscular system of acanthomorph fishes: a commentary. *Am. Mus. Novit.* 3312: 24pp.
63. **Johnson, G. D.**, J. Seeto, and R. H. Rosenblatt. 2001. *Parmops echinatus*, a new species of flashlight fish (Beryciformes: Anomalopidae) from Fiji. *Proc. Bio. Soc. Wash.* 114: 497-500.

64. Paxton, J. R., **G. D. Johnson**, and T. Trnski. 2001. Larvae and juveniles of the deepsea “whalefishes,” *Barbourisia* and *Rondeletia* (Pisces: Beryciformes), with comments on relationships. *Rec. Austral. Mus.* 53: 407-425.
65. Britz, R. and **G. D. Johnson**. 2002. “Paradox Lost”: Skeletal ontogeny of the paradox fish, *Indostomus paradoxus* and its significance for the phylogenetic relationships of Indostomidae (Teleostei:Gasterosteiformes). *Am. Mus. Novit.* 3383: 1-36.
66. Carpenter, K. E. and **G. D. Johnson**. 2002. A phylogeny of sparoid fishes (Perciformes: Percoidei) based on morphology. *Ichthyol. Res.* 49: 114-127.
67. Britz, R. and **G. D. Johnson**. 2003. On the homology of the posteriormost gill arch in polypterids (Cladistia, Actinopterygii). *Zool. J. Linn. Soc.* 138: 495-503.
68. Britz, R., S. Favorito-Amorim, and **G. D. Johnson**. 2003. The hyopalatine arch of a 25 mm larva of *Synbranchus* and homology of the pterygoid bone in the Synbranchidae (Teleostei: Synbranchiformes). *Proc. Bio. Soc. Wash.* 116(2): 337-340.
69. Stiassny, M. L. J., E. O Wiley, **G. D. Johnson**, and M. Carvalho. 2004. *Gnathostome Fishes In: “Assembling the Tree of Life”* (J. Cracraft and M. J. Donoghue, eds.), pp 410-429. Oxford University Press, New York.
70. Springer, V. G. and **G. D. Johnson**. 2004. Study of the dorsal gill-arch musculature of teleostome fishes, with special reference to the Actinopterygii. *Bull. Bio. Soc. Wash.* 11: 260 pp., 205 Pl.
71. **Johnson, G. D.** and R. Britz. 2005. A description of the smallest *Triodon* on record (Teleostei: Tetraodontiformes: Triodontidae). *Ichthyol. Res.* 52: 176-181.
72. **Johnson, G. D.** and R. Britz. 2005. The smallest *Triodon* on record (Teleostei: Tetraodontiformes: Triodontidae). *Ichthyol. Res.* 52: 176-181.
73. Britz, R. and **G. D. Johnson**. 2005. Leis' Conundrum: Homology of the Clavus of the Ocean Sunfishes. 1. Ontogeny of the Median Fins and Axial Skeleton of *Monotretete leiurus* (Teleostei, Tetraodontiformes, Tetraodontidae) *J. Morph.* 266(1): 1-10. **Featured on Cover**
74. **Johnson, G.D.** and R. Britz. 2005. Leis' Conundrum: Homology of the Clavus of the Ocean Sunfishes. 2. Ontogeny of the Median Fins and Axial Skeleton of *Ranzania laevis* (Teleostei, Tetraodontiformes, Molidae) *J. Morph.* 266(1): 11-21. **Featured on Cover**
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- Molidae) and its Phylogenetic Implications. *J. Morph.* 266(1): 74-79.
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 77. Paxton, J.R. & **G.D. Johnson**. 2005. Chapter 98. Rondeletiidae: Redmouth Whalefishes. pp. 1079-1083. In: W.J. Richards, ed. *Early Stages of Atlantic Fishes: an Identification Guide for the Western Central North Atlantic*. CRC Press. Taylor & Francis Group, Boca Raton, London, New York and Singapore.
 78. Paxton, J.R. & **G.D. Johnson**. 2005. Chapter 100. Cetomimidae: Whalefishes. pp 1089-1090. In: W.J. Richards, ed. *Early Stages of Atlantic Fishes: an Identification Guide for the Western Central North Atlantic*. CRC Press. Taylor & Francis Group, Boca Raton, London, New York and Singapore.
 79. Paxton, J.R. & **G.D. Johnson**. 2005. Chapter 101. Mirapinnidae: Tapetails & Hairyfish. pp. 1091-1099. In: W.J. Richards, ed. *Early stages of Atlantic Fishes: an Identification Guide for the Western Central North Atlantic*. CRC Press. Taylor & Francis Group, Boca Raton, London, New York and Singapore
 80. Paxton, J.R. & **G.D. Johnson**. 2005. Chapter 102. Megalomyceteriidae: Bignose Fishes. pp. 1101-1102. In: W.J. Richards, ed. *Early Stages of Atlantic Fishes: an Identification Guide for the Western Central North Atlantic*. CRC Press. Taylor & Francis Group, Boca Raton, London, New York and Singapore
 81. Friedman, M. and **G. D. Johnson**. 2005. A new species of *Mene* (Perciformes: Menidae) from the Paleocene of South America, with notes on paleoenvironment and a brief review of menid fishes. *J. Vert. Paleo.* 25: 770-783.
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 82. Orrell, T.M., Collette, B.B. and **G. D. Johnson**. 2006. Molecular data support separate scombroid and xiphioid clades. *Bull. Mar. Sci.* 79(3): 505-519.
 83. Hilton, E. J., R. Britz, **G. D. Johnson**, and P. Forey. 2007. Clarification of the Occipito-Vertebral Region of *Arapaima gigas* (Osteoglossomorpha: Osteoglossidae) through Developmental Osteology. *Copeia* 2007 (1): 218-224.
 84. Hilton, E. J. and **G. D. Johnson**. 2007. When two equals three: developmental osteology and homology of the caudal

skeleton in carangid fishes (Perciformes: Carangidae). *Evol. and Devel.* 9(2): 178-189.

85. Smith, D. G. and **G. D. Johnson**. 2007. A New Species of *Pteropsaron* (Teleostei: Trichonotidae: Hemerocoetinae) from the Western Pacific, with notes on related species. *Copeia*. 364-377.
 86. **Johnson, G. David** , John R. Paxton, Tracey Sutton, Takashi P. Sato, Tetsu Sado, Mutsumi Nishida, and Masaki Miya. 2009. Deep-sea mystery solved: Astonishing larval transformations and dimorphism unite three fish families. *Biol. Lett.* 5:235-239.
 87. Micklich, N. R. ,J. C. Tyler, **G. D. Johnson**, E. Świdnicka and A. F. Bannikov. 2009. First fossil records of the tholichthys larval stage of butterfly fishes (Perciformes, Chaetodontidae), from the Oligocene of Europe. *Paläontol. Zeits.*: Volume 83, (3), 479-497.
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88. Yamanoue, Y, **G. D. Johnson** and W. C. Starnes. 2009. Redescription of a poorly known acropomatid, *Verilus sordidus* Poey 1860, and comparison with *Neoscombrops atlanticus* Mochizuki and Sano 1984 (Teleostei: Perciformes). *Ichthyol. Res.* (2009) 56:400–406
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 92. Hilton, E. J., **G. D. Johnson** and W. F. Smith-Vaniz. 2010. Osteology of *Parastromateus niger* (Bloch 1795), with comments on its relationships within the Carangidae (Percomorpha: Perciformes). *Copeia* 2010 (2):312- 333.

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96. Konstantinidis, Peter and **G. David Johnson**. 2012. A comparative ontogenetic study of the tetraodontiform caudal complex. *Acta Zool.* 93(1): 98-114.
97. **Johnson, G.D.**, H. Ida, J. Sakaue, T. Sado, T. Asahida, and M. Miya. 2012. A ‘living fossil’ eel (Anguilliformes: Protanguillidae, fam. nov.) from an undersea cave in Palau. *Proc. Roy. Soc. B: Biol. Sci.* 279(1730): 934-43.
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100. Schnell, N. and **G. D Johnson**. 2012. Ontogenetic fusion of the third and fourth pharyngobranchial in barbeled dragonfishes (Stomiidae, Teleostei) with a revision of the identity of the single posterior upper pharyngeal toothplate. *Copeia* 2012 (3), 394–407. ***Featured on Cover.***
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102. ***Ho, Hsuan-Ching & **G. David Johnson**. 2012. *Protoblepharon mccoskeri*, a new flashlight fish from eastern Taiwan (Teleostei: Anomalopidae). *Zootaxa* 3479: 77–87
103. Datovo, Aléssio, Mário C. C. de Pinna, and **G. David Johnson**. 2014. The infrabranchial musculature and its bearing on the phylogeny of percomorph fishes (Osteichthyes: Teleostei). *PloS One*, 9(10): 1-20.
104. Baldwin, Carole C. and **G. David Johnson**. 2014. Connectivity across the Caribbean Sea: DNA barcoding and

- morphology unite an enigmatic fish Larva from the Florida Straits with a new species of sea bass from deep reefs off Curaçao. Plos One, 9(5): 1-15.
105. Britz, R., Ruber, L. and **G. D. Johnson**. 2014. Reinventing the disc: a reminder to give credit to past giants. Proc. Roy. Soc. B: Biol. Sci. 281(1784).
 106. Tyler, James C., **G. David Johnson**, Laith Jawad and Edward B. Brothers. 2014. A developmentally "tail-less" adult cowfish, *Lactoria cornuta*, from Oman (Ostraciidae, Tetraodontiformes). Proc. Bio. Soc. Wash., 127(2): 311-322.
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