

Valid species description

- 1 *Simpsonichthys adornatus* Costa, 2000
- 2 *Simpsonichthys alternatus* (Costa & Brasil, 1994)
- 3 *Simpsonichthys antenori* (Tulipano, 1973)
- 4 *Simpsonichthys auratus* Costa & Nielsen, 2000
- 5 ***Simpsonichthys boitonei* Carvalho, 1959**
- 6 *Simpsonichthys bokermanni* (Carvalho & Da Cruz, 1987)
- 7 *Simpsonichthys bruno* Costa, 2003
- 8 *Simpsonichthys carlettoi* Costa & Nielson, 2004
- 9 *Simpsonichthys chacoensis* (Amato, 1986)
- 10 *Simpsonichthys choloptyx* Costa, Moreira & Lima, 2003
- 11 ***Simpsonichthys constanciae* (Myers, 1942)**
- 12 *Simpsonichthys costai* (Lazara, 1991)
- 13 *Simpsonichthys delucai* Costa, 2003
- 14 *Simpsonichthys fasciatus* Costa & Brasil, 2006
- 15 *Simpsonichthys filamentosus* Costa, Barrera & Sarmiento, 1997
- 16 *Simpsonichthys flagellatus* Costa, 2003
- 17 *Simpsonichthys flammeus* (Costa, 1989)
- 18 ***Simpsonichthys flavicaudatus* (Costa & Brasil, 1990)**
- 19 *Simpsonichthys fulminantis* (Costa & Brasil, 1993)
- 20 *Simpsonichthys ghisolfii* Costa, Cyrino & Nielsen, 1996
- 21 *Simpsonichthys gibberatus* Costa & Brasil, 2006
- 22 *Simpsonichthys hellneri* (Berkenkamp, 1993)
- 24 *Simpsonichthys igneus* Costa, 2000
- 25 *Simpsonichthys inaequipinnatus* Costa & Brasil, 2008
- 26 *Simpsonichthys izecksohni* (Da Cruz, 1983)
- 27 *Simpsonichthys janaubensis* Costa, 2006
- 28 *Simpsonichthys longignatus* Costa, 2008
- 29 *Simpsonichthys macaubensis* Costa & Suzart, 2006
- 30 *Simpsonichthys magnificus* (Costa & Brasil, 1991)
- 31 *Simpsonichthys marginatus* Costa & Brasil, 1996
- 32 *Simpsonichthys mediopapillatus* Costa, 2006
- 33 *Simpsonichthys multiradiatus* (Costa & Brasil, 1994)
- 34 ***Simpsonichthys myersi* (Carvalho, 1971)**
- 35 *Simpsonichthys nielseni* Costa, 2005
- 36 *Simpsonichthys notatus* (Costa, Lacerda & Brasil, 1990)
- 37 *Simpsonichthys ocellatus* Costa, Nielsen & de Luca, 2001
- 38 *Simpsonichthys parallelus* Costa, 2000
- 39 *Simpsonichthys perpendicularis* Costa, Nielsen & de Luca, 2001
- 40 *Simpsonichthys picturatus* Costa, 2000
- 41 *Simpsonichthys punctulatus* Costa & Brasil, 2007
- 42 *Simpsonichthys radiosus* Costa & Brasil, 2004
- 43 *Simpsonichthys reticulatus* Costa & Nielsen, 2003
- 44 *Simpsonichthys rosaceus* Costa, Nielsen & de Luca, 2001
- 45 *Simpsonichthys rufus* Costa, Nielsen & de Luca, 2001
- 46 *Simpsonichthys santanae* (Shibata & Garavello, 1992)
- 47 ***Simpsonichthys semiocellatus* (Costa & Nielsen, 1997)**
- 48 *Simpsonichthys similis* Costa & Hellner, 1999
- 49 *Simpsonichthys stellatus* (Costa & Brasil, 1994)
- 50 *Simpsonichthys suzarti* Costa, 2004
- 51 *Simpsonichthys trilineatus* (Costa & Brasil, 1994)
- 52 *Simpsonichthys virgulatus* Costa & Brasil, 2006
- 53 *Simpsonichthys zonatus* (Costa & Brasil, 1990)

Subgenus

- Hypsolebias* new subgenus
Hypsolebias new subgenus
Hypsolebias new subgenus
Hypsolebias new subgenus
Simpsonichthys de Carvalho, new usage
Ophthalmolebias new subgenus
Hypsolebias new subgenus
Hypsolebias new subgenus
Spectrolebias Costa & Nielsen, new usage
Simpsonichthys de Carvalho, new usage
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Spectrolebias Costa & Nielsen, new usage
Xenurolebias new subgenus
Hypsolebias new subgenus
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