



# Neuroanatomy of the Zebrafish Brain: A Topological Atlas

*Mario F. Wulliman, Barbara Rupp, Heinrich Reichert*

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gene-expression patterns in the zebrafish correspond well The zebrafish belongs to the teleostean family of with the neuromeric model of Puelles and Rubenstein cyprinids (minnows), which includes other neurobiologi- (1993) is very encouraging for further research in this cally well investigated species such as goldfish (*Carassius model system, which holds the promise of revealing fun- auratus*) and carp (e. g. *Cyprinus carpio*). damental neurogenetic patterns and mechanisms in ver- In a recent taxonomic revision (Barman, 1991), all spe- tebrates. cies of the genus *Brachydanio* were reassigned to the genus *Danio*. Thus, the current species designation of the zebrafish is *Danio* (formerly *Brachydanio*) *rerio* (Hamil- ton- Buchanan, 1822). As a cyprinid, the zebrafish belongs Generation of zebrafish mutants via saturation mutagenesis to the large group of ostariophysan teleosts (6000 species, The goal of saturation mutagenesis is to identify most - if Lauder and Liem, 1983). Most ostariophysans are charac- not all- genes affecting early animal development and to terized by a sophisticated apparatus - the Weberian ossi- understand their hierarchical, regulative role during de- des - to transmit sound from the swim bladder to the velopment (for reviews, see: Mullins and Ntisslein-Vol- inner ear. The ostariophysans belong to the most derived hard, 1993; Solnica-Krezel et al. , 1994). This approach has group of teleosts, the euteleosts (17000 species), which recently been applied to the zebrafish system, and the re- have three more basic teleostean outgroups, the oste- sults are impressive.

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