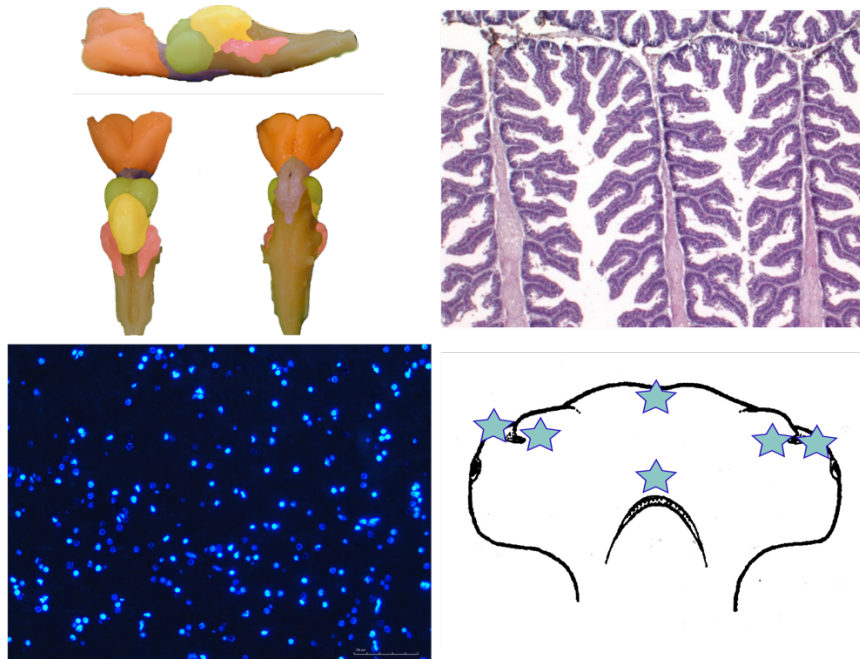


COMPARATIVE ANATOMY

Anatomy of the nervous and sensory systems of fish



We investigate the gross and microscopic anatomy of the nervous and sensory systems of cartilaginous fishes (sharks, skates and chimaeras) and bony fishes (mainly marine teleosts). We aim to find a correlation between the descriptive and quantitative anatomy of the brain and olfactory system of fish and ecological tracts (ecomorphology) and phylogeny of species. Sampling almost exclusively the bycatch of professional fishery, the highest possible number of species is analyzed.

Gross anatomy is investigated by means of dissections, photographs and observations using stereomicroscope, and traditional and geometric morphometrics. Microscopic analyses are based on histology and isotropic fractionator of the nervous tissue for cell and neuron counting.

Keywords: Ecomorphology, neuroanatomy, Chondrichthyes, Osteichthyes

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