Download Evolution Of Visual And Non-visual Pigments

?2015? ?12? ?????2015??????????????????????? ?Diverse animal bistable pigments and their optogenetic potential? 2015 International Chemical Congress of Pacific Basin Societies (PACIFICHEM 2015), Honolulu, USA (2015)Jumping spiders are a group of spiders that constitute the family Salticidae. As of 1 February 2019, this family contained 636 described genera and 6115 described species, making it the largest family of spiders at 13% of all species. Jumping spiders have some of the best vision among arthropods and use it in courtship, hunting, and navigation.Vertebrates typically have four cone opsins (LWS, SWS1, SWS2, and Rh2) inherited from the first vertebrate (and thus predating the first vertebrate), as well as the rod opsin, rhodopsin (Rh1), which emerged after the first vertebrate but before the first Gnathostome (jawed vertebrate).Eye size, brain size, prey capture and nocturnality-- Behavioral adaptation to ecological conditions can lead to brain size evolution. Structures involved in behavioural visual information processing are expected to coevolve with enlargement of the brain., Evolution Of Visual And Non-visual Pigments.

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