Understandingpatterns of brain evolution also shows us that different lineages have evolveddifferent structural solutions to similar functional problems. Ito and Yamamoto[2009] and Reiner [2009] take us through the forebrains of fishes and birds,respectively, and compare their organization to that of the well-studiedmammalian forebrain. Comparative studies of this type may allow us in thefuture to better understand structure-function relationships between brain andbehavior [Smulders, 2009]. The same approach is taken by Amrein and Lipp [2009]to explore the importance of adult neurogenesis in different mammalian species.On the other end of the spectrum, Sol [2009] and Isler and Van Schaik [2009]explore their ideas about the pressures driving the evolution of brain size inbirds and mammals, relating them to the possible cognitive advantages on theone hand, and to the constraints of developing large brains on the other hand.And it is of course impossible to understand such constraints without knowingthe mechanisms through which developmental processes cause differences in brainsize. Striedter and Charvet [2009] compare birds and mammals that haveindependently evolved large brains, and find similar changes in the proliferativezones of their brains. There are of course many other aspects of brainevolution that are being studied at present. The special feature in BiologyLetters was only meant to provide an introduction to this fascinating topic forpeople who are not familiar with the material. The importance of understandingbrain evolution for anyone working in neuroscience cannot be understated[Smulders, As all the readers of Brain, Behavior and Evolution are undoubtedlyaware, 2009 was awash with celebrations of Darwin’s bicentenary and the 150thanniversary of the publication of On the Origin of Species . As part of theircontribution to these celebrations, Biology Letters published three specialfeatures on topics relating to evolution, including one on brain evolution,which was published in February 2009 (vol. 5, issue 1). As the guest editor ofthis feature, I regarded it as an opportunity to showcase our field of study tothe wider biological sciences community. The study of brain evolution is ofcourse a wide and diverse endeavor, from describing and elucidating thepatterns of descent with modification over time to thinking about the selectivepressures that have shaped nervous systems. Kosik [2009] and Reichert [2009]briefly review the evolution and conservation of the mechanisms involved insynaptic transmission and in brain development, respectively, across manydifferent groups of animals. The findings coming out of this fascinating workelucidate how complicated (molecular) structures and complexes can evolve fromsimpler ones, because the same molecules can often perform different functionsin different contexts. This provides conceptual answers to the kinds ofquestions raised by Darwin himself about how complex structures like avertebrate eye could ever have evolved from simpler ancestral structures. In anarticle associated with (but not in) the special feature, Strausfeld [2009]explores phylogenetic patterns in nervous systems, in this case using them totest hypotheses about the origins of insects.

DARWIN CELEBRATIONS HIGHLIGHT BRAIN EVOLUTION

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