2 Comparative anatomy and physiology of hearing organs

2.1 Anatomy of the cochlea in birds

Franz Peter Fischer, Otto Gleich, Christine Köppl, Geoffrey A. Manley

2.1.1 Anatomy and evolution of the avian basilar papilla

Through intensive research over more than a decade, a great deal of morphological and physiological data on the avian basilar papilla has become available. The finding that hair cells (HC) in the hearing epithelium of birds can regenerate following damage (e.g. Corwin and Cotanche, 1988; Ryals and Rubel, 1988) has considerably stimulated efforts in this field, and the chicken has become the "standard bird" in research on avian HC regeneration. The mechanism of hearing in birds is, however, still far less understood than in mammals. In an attempt to establish structure-function correlations, we have carried out a long-term quantitative study of the morphological and innervational patterns of avian basilar papillae and their HC in differently-specialized bird species. Two of the aims of these studies were firstly, to try to understand the evolution of this complex sense organ. Thus our choice of species included both primitive and specialized birds. Secondly, we wanted to provide the morphological groundwork for comparative physiological studies of amniote hearing organs.

The emu, a member of the palaeognathous Ratitae, is considered to be a rather primitive species (Carroll, 1988). Among the neognathous birds, the water-bird assemblage (e.g. ducks and seagulls) is believed to show more primitive features than the land-bird assemblage (Feduccia, 1980; Carroll, 1988). The land-bird assemblage has two subdivisions, and the pigeon and the chick belong to the more primitive subdivision, whereas the passerines (or song birds) are advanced land birds. The same is true for the barn owl, an extreme case of specialization, that can catch its prey in absolute darkness by using auditory cues. With the use of the scanning (SEM) and transmission (TEM) electron microscopes, we have studied the hearing organs in nine avian species (Table 2.1.1).

As a counterpart to the morphological research, numerous physiological studies were carried out by our group on the emu, chicken, starling and barn owl (see sections 2.2, 2.4, 2.5, 2.6, 3.1, 3.2.1, 5.2). References to the literature describing additional data available for other

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