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## Preface

*Ume Eder Bat* (A beautiful child) (popular song from Basque folklore)

The aim of this monograph is to introduce the postnatal development of morphological features that are relevant to readers interested in the neurobiology and pathology of the hippocampal formation in terms of the complex phenomena that underlie the progressive anatomical and functional maturation of this brain region. This review focuses on the morphological aspects, while more detailed basic phenomena associated with neuronal maturation—which are undoubtedly also of great interest—are only marginally referred to, although a selection of behavioral and clinical aspects will also be briefly addressed in an attempt to illustrate real situations in different clinical specialties.

The creation of this monograph is justified by the increasing importance and growing awareness shown in recent years of neurodevelopmental disorders in children. This awareness is leading to increasing refinement in clinical examinations of patients that may suffer from different neurodevelopment-related diseases, such as autism, epilepsy, memory disorders, etc. To the best of our knowledge, this work is the first comprehensive description of the postnatal changes in the hippocampal formation in its different constituent fields. Given the growing sensitivity and accuracy of neuroradiological examinations, particularly MRI, we also sought to offer a glimpse at the MRI aspects related to the development of the hippocampal formation in the human infant. Some caution must be exercised here, as our data deal with the anatomo-radiological correlation in *ex vivo* MRI images taken in fixed, normal human infant brains from routinely obtained necropsies in different hospitals across Spain. In this regard, we would like to show our appreciation of the uninterested help offered by the Pathology and Radiological Services of the Albacete University Hospital Complex (Drs. Atiénzar, Pascual, Cros and Mansilla, as well as their technician Francisca Cortés, who provided immensely valuable help), Drs. Tuñón and García-Bragado from Navarra's Department of Health, Dr. Rábano from Alcorcón Foundation Hospital, and we extend a very special thanks to the Pathology Service of Virgen del Rocío Hospital in Seville, in particular Drs.

Rivas, Chinchón and Fernández, for their tremendous help in providing human infant tissue.

This work is dedicated with kindness to those parents who gave their consent to perform necropsies on their beloved little ones at difficult moments. We hope that they will find comfort in the knowledge that their altruism will improve the health of other children.

Ricardo Insausti

P.S. To my inspiring mentor and friend, Prof. David G. Amaral, whose dedication to autistic children is an example of translational research, from basic science to clinical situations.



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