AN ATLAS OF
**MAMMALIAN
CHROMOSOMES**
VOLUME 10

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Introduction to Volume 10

It has been exactly ten years since Volume 1 of this series *An Atlas of Mammalian Chromosomes* was published. In these ten years, cytogenetics, particularly human and mammalian cytogenetics, has had some remarkable advances which nearly caused the classic karyotyping method to become obsolete overnight. These advances included the various banding techniques, correlation between gene activities and chromosomes in somatic cell hybrids, localization of special classes of DNA in chromosome regions by means of *in situ* hybridization, and others.

In mammalian cytogenetics and cytotaxonomy, many new facts have also been uncovered. For example, chromosome banding analyses showed that the arrangement of genetic material in mammals has been relatively conservative because related species may have identical banding patterns. A good portion of karyotypic variability is attributed to total chromosome or total arm translocations. Another source of variability is the result of the amount and the distribution of constitutive heterochromatin (C-bands). In a number of species, entire chromosome arms may be made of C-band material. Thus the concept of fundamental number must be modified in such cases.

Karyological analyses have also contributed substantially to systematics of mammals. In many cases, cytogenetic findings confirm taxonomists' contention regarding species relationships. For example, a number of taxonomists consider that *Peromyscus (Ochrotomys) nuttalli* should not be classified as a member of *Peromyscus*. Cytological data revealed that *Ochrotomys nuttalli* not only possesses a diploid number ($2n=52$) different from all *Peromyscus* species ($2n=48$), but also has different banding patterns, indicating remote phylogenetic relationships. More positively, cytogenetic work has assisted taxonomy in identifying taxa which are morphologically similar. The cotton rat *Sigmodon hispidus* has a prevailing diploid number of 52, but the discovery of cotton rat populations in Arizona with a diploid number of 22 emphatically indicates that the two forms are genetically so distant that they cannot be classified as one species.

Extensive data have been accumulated to demonstrate that in many taxa, especially Rodentia, the chromosomes are so polymorphic that it is difficult to assign one karyotype as the standard for the species. On the other hand, in other taxa, e.g., Cetacea, Felidae, etc., many species share the same or very similar karyotype. Thus in the former cases, many karyotypes are required to represent one species whereas in the latter cases, one karyotype may suffice for a number of species. Since this Atlas series was initiated before the discovery of new facts, and since cytogenetic data were accumulated during the last decade, deficiency of pictorial presentation in one and occasional duplication in the other are evident when one examines the entire Atlas series.

In all previous volumes we placed 50 folios for each installment. In the great majority of cases, each folio contained a male karyotype and a female karyotype of one species, but in a few instances we presented more than one species per folio. In the present volume, however, we present more than 50 folios since Volume 10 is the last planned volume of this series. This does

not mean that in the future additional compilations of karyotypes will not be appended; but these will not be done on a regular basis.

Even though conventional karyotypes are now somewhat out of date, they still provide basic information regarding chromosome constitution of a species, a subspecies, or a population. In fact, even in banding analyses, standard karyotypes are still necessary for the exact morphology of each chromosome because the morphological definition of banded chromosomes is not as sharp as that of the conventionally stained preparations. Thus we believe that this Atlas series will remain useful as a general reference. It is premature to compile banded karyotypes since not many species have been analyzed in detail and only a few whose banded chromosomes have been competently worked out and standard nomenclature agreed upon. However, it is comforting to see that technological advances in the recent years have made remarkable improvements of our tools and some significant changes in our concepts in mammalian cytogenetics, cytotaxonomy and cytoevolution.

T. C. Hsu
Kurt Benirschke

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