are extra sections included where the field has advanced significantly.

Cloning in the single-stranded vector M13 and its application to DNA sequencing is described. It is a pity that the Maxam–Gilbert technique of DNA sequencing is not discussed anywhere in the text. The sequence analysis of eukaryotic gene fragments, particularly by the latter method, has played an important role in our understanding of gene structure and function. A paragraph comparing the applications and limitations of both these sequencing methods would have been valuable.

A new chapter has been included encompassing cloning principles in systems other than *E coli*, such as *Bacillus subtilis* and yeast. The chapter on cloning in plant cells has also been extended in a constructive way. This account provides an excellent introduction to an application of gene manipulation which will be very important in the next few years.

The major weakness of the text is in its depiction of the impact of this technology on molecular biology. An attempt is made to summarise the applications in chapter 11, but it falls short of describing major advances made in human genetics and in the understanding of gene organisation.

In summary, *Principles of Gene Manipulation* provides an informative introduction to genetic engineering, but should be recommended to students in conjunction with important references describing the application of this technology.

K E DAVIES

Clinical Genodermatology

Volumes 1 and 2. By Thomas Butterworth and Roger L Ladda. (Vol 1: Pp xxi + 374; figures. £35.50. Vol 2: Pp xxi + 355; figures. £34.50.) New York: Praeger. 1981.

Dermatologists have long awaited a definitive work on genetic diseases of the skin, and it was therefore with some excitement that I first opened this two volume candidate for the title. After that, I met with a series of disappointments. The first was simply the appearance of the book, both externally and internally, which I found tired and old-fashioned. Superficially, it might have been published in 1881.

The book focuses its attention on single gene disorders with prominent cutaneous manifestations and selection of conditions has been comprehensive. Groupings of disorders are intelligent and the clinical descriptions are, on the whole, excellent. Early manifestations, often ignored, are given appropriate attention. The text is generously illustrated with black and white photographs, but these

are too often unhelpful, either because they show atypical features or because they are of low quality. Nomenclature is uncritically handled and will I fear confuse many readers. I found this a real weakness in the book. A number of antique terms are retained, such as adenoma sebaceum for the facial angiofibromata of tuberous sclerosis, which are neither adenomatous nor have anything to do with sebaceous glands. Elsewhere there are more serious mistakes, including the listing of 'synonyms' which are in fact entirely separate conditions. Lamellar ichthyosis of the newborn and harlequin fetus are not the same entity at all. The latter is a single gene disorder incompatible with life, the former simply a phenotype which may occur as the initial manifestation of any one of a number of genetic disorders and which is only rarely a cause of death. The biochemical basis of the diseases discussed is, in my view, given too little attention. It would have been helpful to give definite answers as to whether or not prenatal diagnosis is possible in the case of each disorder. Discussion of the genetic heterogeneity of such disorders as the Ehlers-Danlos syndrome and xeroderma pigmentosum is considered to be beyond the book's scope. Surely it shouldn't be?

Each condition has a sub-heading 'Variations'. This contains, as one would expect, discussions on the range of expression seen in each disease, but in many places it appears to confuse this with variations due to distinct genes. It is generally accepted that there are two distinct forms of epidermolysis bullosa simplex, the so-called generalised form and the Cockayne type, which is localised to the hands and feet. The authors describe the localised form as a variant of the generalised form, without making it clear whether they believe that the same gene is responsible or not. Worse still, they include the so-called acquired type of epidermolysis bullosa as a 'variant' of autosomal recessive dystrophic epidermolysis bullosa, though there is no evidence that the former has any genetic basis whatsoever. Such confusion is unjustifiable anywhere, but it is particularly sad that it should mar a book on a genetic topic.

Each volume has its pages independently numbered and its own separate index. This makes it extremely uncomfortable to use the book for reference purposes. Surely the correct system for a work of this type is to continue page numbering from the first into the second volume, and provide each volume with a copy of a single comprehensive index?

The book is for all these reasons not the one we have been waiting for, but it is nevertheless the best available on the subject and will be bought for this reason.

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