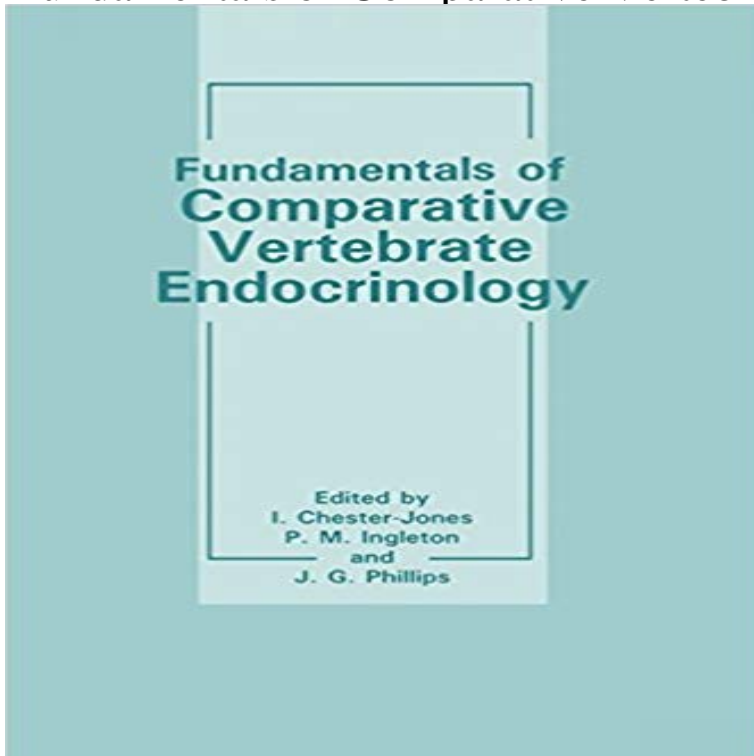


Fundamentals of Comparative Vertebrate Endocrinology



Endocrinology, as a discipline, was a late arrival in the corpus of established subjects. Its growth in recent years has been prodigious, extending from morphology to molecular levels. Most of the major endocrine glands were noted by the early anatomists, although the adrenal glands were not described until 1563 by Bartholomaeus Eustachius (1520-1574). On the other hand, elucidation of the function of these glands was extremely slow. Key work by A. A. Berthold (1849), although overlooked at the time, showed that comb atrophy in castrated fowl was prevented by testis transplantation. The idea that glands produced substances reaching the bloodstream directly and not via excretory ducts stemmed from Claude Bernard, who first used the term internal secretion in 1855. The clinical observations of Thomas Addison at Guys Hospital-published as a monograph in 1855 entitled *The Constitutional and Local Effects of Disease of the Suprarenal Capsules* -were seminal. However, the stimulus of this early research did not bring immediate widespread further investigations. Upon the discovery of secretin in 1902, Bayliss and Starling considered the term internal secretion to be clumsy, and the term hormone was coined (from *hormo* -excite or arouse) and it was first used by Starling in his Croonian of 1905.

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