

Contents

Introduction: Viktor Hamburger: Pioneer Embryologist, Teacher, Colleague, and Friend, by <i>Ronald W. Oppenheim</i>	ix
Bibliography of Viktor Hamburger	xv

I. *Developmental Neurobiology—Reviews*

Developmental-physiological correlations between the limbs of amphibians and their innervation. (1927) [3]	3
Development of the nervous system. (1952) [28]	21
Trends in experimental neuroembryology. (1955) [32]	37
Specificity in neurogenesis. (1962) [41]	57
The developmental history of the motor neuron. (1977) [66]	69
Prespecification and plasticity in neurogenesis. (1980) [71]	110
Naturally occurring neuronal death in vertebrates. (1982) (with R. Oppenheim) [75]	126
Neurogenesis. (1984) [76]	143

II. *Development of Motility and Behavior*

Some aspects of the embryology of behavior. (1963) [43]	165
Emergence of nervous coordination. Origins of integrated behavior. (1968) [49]. . .	189
Embryonic motility in vertebrates. (1970) [54]	210
Anatomical and physiological basis of embryonic motility in birds and mammals. (1973) [58]	221

III. *History of Neurogenesis*

Changing concepts in developmental neurobiology. (1975) [61]	249
S. Ramón y Cajal, R.G. Harrison, and the beginnings of neuroembryology. (1980) [70]	266
Historical landmarks in neurogenesis. (1981) [74]	283
Ontogeny of neuroembryology. (1988) [81]	293

* The numbers in brackets following the titles of the papers are from the Bibliography of Viktor Hamburger (pages xv–xxii in this volume).

Contents

IV. *Developmental Genetics and Evolution*

The developmental mechanics of hereditary abnormalities in the chick. (1942) [16]	307
Embryology and the modern synthesis in evolutionary theory. (1980) [72].	334
Evolutionary theory in Germany. A comment. (1980) [72].	350

V. *Book Reviews*

Embryologia chemica vera in statu nascendi. Review of "Biochemistry and Morphogenesis," by J. Needham. (1943) [A1]	359
Malpighi the Master. Review of "Marcello Malpighi and the Evolution of Embryology," Vol. I–V, by H.W. Adelman. (1968) [A6]	365
Organization and Development of the Embryo, by Ross G. Harrison, ed. Sally Wilens. (1970) [A7]	369
Von Baer, Man of Many Talents. Review of "Karl Ernst von Baer, 1792–1876. Sein Leben und sein Werk." by Boris E. Raikov. (1970) [A8]	372

VI. *Biographical and Autobiographical*

Hans Spemann and the Organizer Concept. (1969) [51]	379
Hans Spemann, Nobel Laureate 1935. (1985) [79]	384
The S. Kuffler Lecture, The rise of experimental neuroembryology: A personal reassessment. (1990) [83]	389

VII. *Miscellaneous*

An embryologist visits Japan. (1962) [42]	407
Goethe's "Zur Farbenlehre" (Theory of Colors). (1981) [A9]	414
Permissions and Acknowledgments	419