



Intrinsic Geometry of Biological Surface Growth (Lecture Notes in Biomathematics)

P. H. Todd

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1.1 General Introduction The work which comprises this essay formed part of a multidisciplinary project investigating the folding of the developing cerebral cortex in the ferret. The project as a whole combined a study, at the histological level, of the cytoarchitectural development concomitant with folding and a mathematical study of folding viewed from the perspective of differential geometry. We here concentrate on the differential geometry of brain folding. Histological results which have some significance to the geometry of the cortex are referred to, but are not discussed in any depth. As with any truly multidisciplinary work, this essay has objectives which lie in each of its constituent disciplines. From a neuroanatomical point of view, the work explores the use of the surface geometry of the developing cortex as a parameter for the underlying growth process. Geometrical parameters of particular interest and theoretical importance are surface curvatures. Our experimental portion reports the measurement of the surface curvature of the ferret brain during the early stages of folding. The use of surface curvatures and other parameters of differential geometry in the formulation of theoretical models of cortical folding is discussed.

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