



A Fractal-like Geometry of the Nucleus and its Reproduction: A Hypothesis

Manabu Takahashi

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This book is book one of two volumes written in a rather compact form to deliver the author's idea on the relationship between the genome organization and the tumor cell cycles for the cytogeneticists who wish to integrate their knowledge on the structure of chromosomes and/or of nuclei and also for the cell kineticists who are willing to consider the problem of how cells cycle. The author emphasizes that na integrity will never be understood by simply delineating the results of observations. The book attempts to make an adventure of thought (a dangerous adventure!) into the field of theoretical nuclear physics (i.e. theoretical physics of the cell nucleus). A consideration on the three-dimensional geometry of a DNA molecule gave birth to a molecular biology as distinct from classical biochemistry. The development of thought in this direction points to a geometrical problem of the nucleus. We are urgently in need of a paradigm shift. We have to acknowledge the weakness of a piling-up strategy. This book will (ironically) good for the so-called molecular biologists who think "molecularization solves any problem" and also (ironically) good for those who think "experiments are everything". This book is not good by any means for uncritical readers who confuse hypothesis with reality. A unique feature of this book is to emphasize the importance of a large scale geometry of a DNA molecule (genometry) and the significance of double-stranded DNA for transmitting torque in a long distance. A central thesis is the hypothesis of a fractal-like geometry as applied to a genome organization and nuclear structure. The readers will find how diverse phenomena can be understood within a framework of simple principles.

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