

Stem Cell Research 2019: From the RNA world to protein and human mass societies: Self similarity and giant T patterned strings as candidate organizational principles_ Magnus S. Magnusson_ University of Iceland, Iceland

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Abstract

This talk concerns spatial and temporal self-similarity across more than nine orders of magnitude, implicating a self-similar fractal-like pattern, called T-pattern, a natural or pseudo-fractal pattern, recurring with statistically significant translation symmetry. The T-pattern, the core of the T-system of structural concepts is a result of an ethological (i.e. biology of behavior) project started in the early 1970's primarily on social interaction and organization in social insects and primates including humans inspired mainly by the ethological work of Lorenz, von Frisch and Tinbergen for which they shared a Nobel Prize in Medicine or Physiology in 1973. Notably, in this context, their smallest subjects were social insects and thus no consideration of selfsimilarity. The present project has focused on developing time pattern definitions with corresponding detection algorithms resulting in the T-pattern type and the dedicated THEME software, which has allowed their abundant detection in many kinds of animal and human behavior and interactions and later in neuronal interactions within living brains, thus showing T-patterned self-similarity of temporal interaction between and within brains.

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Biography

Magnus S Magnusson, from the Microbiology Department of "University of Iceland, Iceland he is coordinating PhD doctor's thesis in the medicine field. he organized and attended numerous national, international congresses, as president, member in the Organizing Committees, Invited speaker,

Keynote speaker or Chairperson. She unfolds a high level activity after years of experience in research, evaluation, teaching and administration both in hospital and education institutions.