

Joint Event on  
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**T-patterns and self-similarity from RNA to DNA to naked apes to string controlled apes in mass societies: Biology and culture as one**

This talk presents a self-similar pattern type called T-pattern, a kind of statistical pseudo fractal recurring with significant translation symmetry on a single discrete dimension (now with a specialized detection algorithm and software THEME for Windows (see [patternvision.com](http://patternvision.com)), which has allowed the discovery of numerous and complex interaction patterns in many kinds of human and animal interactions as well as in neuronal interactions within living brains. T-patterns have also been detected in interactions between robots and humans and seem characteristic for the structure of DNA and text. A definition of T-patterns is presented as well as the essentials of the current detection algorithms and examples. The potential importance of T-patterns is finally illustrated through a comparison between human mass societies and the mass societies of proteins within biological cells (sometimes called "Cell City"), where self-similarity of organization evolved over billions of years is striking from nano to human scales based on self-similar T-patterns, but appearing in animals in humans only and based on massively copied standardized T-patterned letter strings such as holy, legal and scientific texts. The invention of writing and thus a durable T-patterned external memory only a few thousand years ago – in a biological eye-blink -- allowing socio-cultural memory largely external to brains and thus the rise of advanced science and technology and the only large-brained mass-societies now all based on T-patterned strings. The analogy and self-similarity is striking with the invention of the purely informational DNA T-patterned strings by the RNA world, now the DNA world.



**Magnus S Magnusson**

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**Biography**

Magnus S Magnusson, Research Professor, founder and director of the Human Behavior Laboratory, University of Iceland PhD in 1983, University of Copenhagen. Author of the T-pattern model and detection software THEMETM ([PatternVision.com](http://PatternVision.com)), focused on real-time organization of behavior. Co-directed DNA analysis. Numerous papers and talks/keynotes in ethology, neuroscience, mathematics, religion, proteomics, mass spectrometry and nanoscience. Deputy Director 1983-1988, in Museum of Mankind, National Museum of Natural History, Paris. Repeatedly invited temporary Professor at the University of Paris, V, VIII and XIII. In collaboration between now 32 universities initiated 1995 at University of Paris V, Sorbonne, based on "Magnusson's analytical model".

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