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Samuli Niiranen and Andre Ribeiro Information Processing and Biological Systems Intelligent Systems Reference Library, Volume 11 Editors-in-Chief Prof. Janusz Kacprzyk Systems Research Institute Polish Academy of Sciences ul.

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Living beings require constant information processing for survival. In cells, information is being processed and propagated at various levels, from the gene regulatory network to chemical pathways, to the interaction with the environment.

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In biological systems, the processing and use of information has evolved out of the need for survival in the face of an uncertain environment. As a consequence, the information-function relationship in these systems is shaped by their

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of information processing; however, there are many dissensions in reference to specifics on how the brain actually codes or manipulates information as it is stored in memory. Schacter and Tulving (as cited in Driscoll, 2001) state that "a memory system is defined

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The immune system is a superb venue for learning about biological information processing. Because of the immune system's intrinsic interest and medical importance, its "hardware" is rather well understood, although much remains to be done.

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Prior art keywords living body light information processing biological information processing apparatus Prior art date 2008-10-07 Legal status (The legal status is an assumption and is not a legal conclusion.

US20100087733A1 - Biological information processing

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Biological Information Processing - Evolution of Computing

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