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# Puntenlijst Nederlands Sophianum 2009 2010 Info

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30 years old: O-GlcNAc reaches age of reason - Regulation of cell signaling and metabolism by O-GlcNAcylation

VM Guide

Educational Neuroscience, Constructivist Learning, and the Mediation of Learning and Creativity in the 21st Century

The Clinical Symptomatology and Comorbidity of Attention-deficit/hyperactive Disorder in a Healthy School Population

Syntax and Variation

The Mystery of Life

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## YARELI MELENDEZ

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*30 years old: O-GlcNAc reaches age of reason - Regulation of cell signaling and metabolism by O-GlcNAcylation* Frontiers Media SA

The SAVE International Value Methodology (VM) Body of Knowledge, VM Guide®, is the definitive resource for the theory and practice of value improving techniques. This essential guide serves as the foundation for SAVE International's standards of practice and professional certification program. In it, readers will find a wealth of information regarding the

underlying process, known as the VM Job Plan, as well as guidance on the application of techniques that support the performance of VM Studies. This volume also includes practical guidance on facilitation techniques as well as the creation and management of VM programs.

*VM Guide* John Benjamins Publishing  
Hundreds post-translational modifications (PTM) were characterized among which a large variety of glycosylations including O-GlcNAcylation. Since its discovery, O-GlcNAcylation has emerged as an unavoidable PTM widespread in the living beings including animal and plant cells, protists, bacteria and viruses. In opposition to N- and O-glycosylations, O-

GlcNAcylation only consists in the transfer of a single N-acetylglucosamine moiety through a beta-linkage onto serine and threonine residues of proteins confined within the cytosol, the nucleus and the mitochondria. The O-GlcNAc group is provided by UDP-GlcNAc, the end-product of the hexosamine biosynthetic pathway located at the crossroad of cell metabolisms making O-GlcNAcylation a PTM which level tightly reflects nutritional status; therefore regulation of cell homeostasis should be intimately correlated to lifestyle and environment. Like phosphorylation, with which it can compete, O-GlcNAcylation is reversible. This versatility is managed by OGT (O-GlcNAc transferase) that transfers the

GlcNAc group and OGA (O-GlcNAcase) that removes it. Also, like its unsweetened counterpart, O-GlcNAcylation controls fundamental processes, e.g. protein fate, chromatin topology, DNA demethylation and, as recently revealed, circadian clock. Deregulation of O-GlcNAc dynamism may be involved in the emergence of cancers, neuronal and metabolic disorders such as Alzheimer's or diabetes respectively. This Research Topic in *Frontiers in Endocrinology* is the opportunity to celebrate the thirtieth anniversary of the discovery of "O-GlcNAc" by Gerald W. Hart.

*Educational Neuroscience, Constructivist Learning, and the Mediation of Learning and Creativity in the 21st Century* Maklu  
The advent of educational neuroscience, a transdisciplinary exercise emerging from cognitive neuroscience and educational psychology, is the examination of physiological processes that undermine, support, and enhance the capacities to

learn and create. The physiological underpinnings of learning and creativity each impact human ability and performance and mediate the processes of becoming educated, expert, and valued. Evidence of learning provides support to an ongoing canon, process, system, field or domain, while evidence of creativity results in an elaboration or departure from an ongoing canon, process, system, field, or domain. Educational neuroscience extends a challenge to scholars from multiple contexts to engage in the characterization and exploration of human ability and performance in these realms. The role of context, both environmental and interoceptive, is an integral part of efforts in educational neuroscience and in theories of constructivist learning to contribute ecologically valid insight to the pragmatic processes of learning and creativity. Examination at this level of specificity is vital to our ability to educate

and support human potential in the 21st century. This Research Topic examines the neural basis of cognitive states and processes that influence knowledge and skill acquisition tied to the demonstration of human ability and performance across individual differences and in multiple contexts including STEM learning and the arts.

**The Clinical Symptomatology and Comorbidity of Attention-deficit/hyperactive Disorder in a Healthy School Population** *Frontiers in Media SA*

As such, it offers novel approaches to three key areas of current linguistic debate, viz. (1) Methodological practices, (2) Theoretical applications and (3) Modularity."--BOOK JACKET.

*Syntax and Variation* Simon and Schuster  
Uncover all the mysteries of life and how you fit into it.

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