Brain Concepts and Theories

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LEARNING

Conditioning

Cognitive Learning

IMITATION

Direct Matching

Cognition based imitation

Classical Operant

Learning by Problem Solving
Observation Activity

"Behaviour"

"Action"

• The origin: W. B. Carpenter

The application: Bandura

• The sensation: G. Rizzolatti / V. Gallese

Next step: M. Umilta

Extending the concept: Asterix and Obelix

The breakthrough: Rizzolatti/Gallese/lacoboni

- Additional Findings: Keysers and Fogassi
- Importance of Motor Vocabulary and
- Language Competence
- Demonstration vs. Verbal Description

- Cognition vs. Direct Matching
 - pros and cons

Level of Coaches and the Team

Level of Teachers Education and the Practical Work

Education of Referees and Delegates

- Learning from a model
- Limbic System Controlling Function
 - Hippocampus vs. Amygdala

Fear

- Motivation
- Credibility "Pseudo-Reflexes"
- Neuromodulators
 - Noradrenalin, ACTH
 - Dopamin, Serotonin