



## TITLE: WHY IS IT ESSENTIAL TO INTEGRATE KNOWLEDGE IN NEUROSCIENCES IN EDUCATION?

**Name:** Paula Andrea Segura Delgado<sup>1</sup> & Martha Helena Ramírez-Bahena<sup>1</sup>

**Affiliation:** Department of Didactics of Mathematics and Experimental Sciences, Faculty of Education, University of Salamanca, Spain.

**Country:** Spain.

**Email ID:** idu024464@usal.es<sup>1</sup>

### ABSTRACT (upto 300 words)

Research on how the brain learns has a transcendental application in the educational context. This knowledge can contribute significantly to improving the training of educators and therefore educational practices. Education as an instrument of change and school as an agent of socialization, it is necessary to understand what it aims to transform: the human brain. Understanding the functioning of the human brain has important repercussions on education: this elucidates cognitive skills, psychological processes and elements that influence the learning process (memory, executive functions, emotions and the circadian cycle); helps identify psychological and neurological deficits that can impede learning processes (dyslexia, autism, hyperactivity); It allows creating environments that promote brain development and contribute to the advancement of brain capabilities in alignment with the stages of neurobiological development.

The digital age presents diverse opportunities to every social environment. The frequent use of digital technology (DT) has had a significant and abrupt impact on both the cognitive abilities and physico-chemical properties of the brain, significantly influencing educational processes. Hence, educational community, with the insights from advances in neuroscience, aspire to identify the positive and negative effects of digital technology on the human brain. This knowledge helps ensure the alignment of teacher training and practices with these findings.

### BIOGRAPHY (upto 200 words)

Paula Andrea Segura is a chemistry professor who holds a master's degree in education. Presently, she is diligently pursuing her Ph.D. at the University of Salamanca in Spain, specializing in the field of education. Her research is centered around the history of chemistry and neuroeducation.

The primary objective of her Ph.D. dissertation is to underscore the crucial role of integrating digital technology into practical teaching methods, informed by insights from neuroscience.



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**Presenter Name:** Paula Andrea Segura Delgado.  
**Mode of Presentation:** Oral.  
**Contact number:** +57 (314) 4409254



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1309 Coffeen Avenue STE 1200, Sheridan, WY 82801, United States  
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+1-346-291-8309 