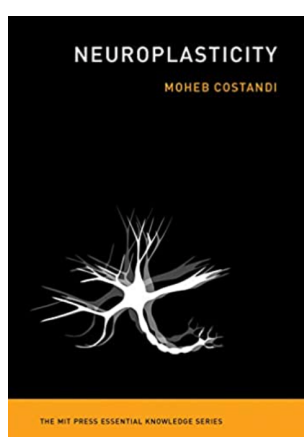


# INTERACT123 Research Round-Up: Neuroplasticity

February 2023

Welcome to the INTERACT123 [Research Round-Up](#). Each month, we will provide you with recommendations for leading resources on a specific topic to support teaching, learning, and student success!

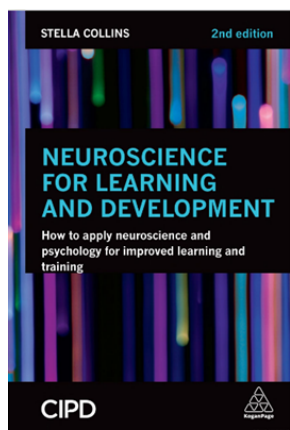
## Books



**Moheb Costandi, M.Sc.**

[\*Neuroplasticity\*](#)

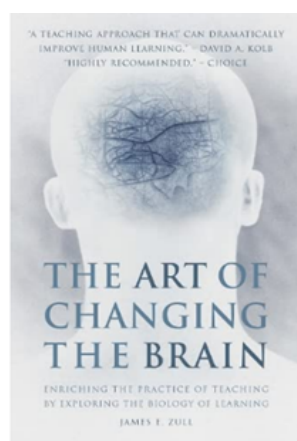
"A concise and engaging overview of neuroplasticity for the general reader, describing how our brains change continuously in response to our actions and experience." *book cover*



**Stella Collins, M.Sc.**

[\*Neuroscience for Learning and Development: How to Apply Neuroscience and Psychology for Improved Learning and Training\*](#)

"Dispelling some of the myths and hype around the topic, Stella Collins proves you don't have to be a neuroscientist to apply key brain principles to practical learning solutions." *book cover*

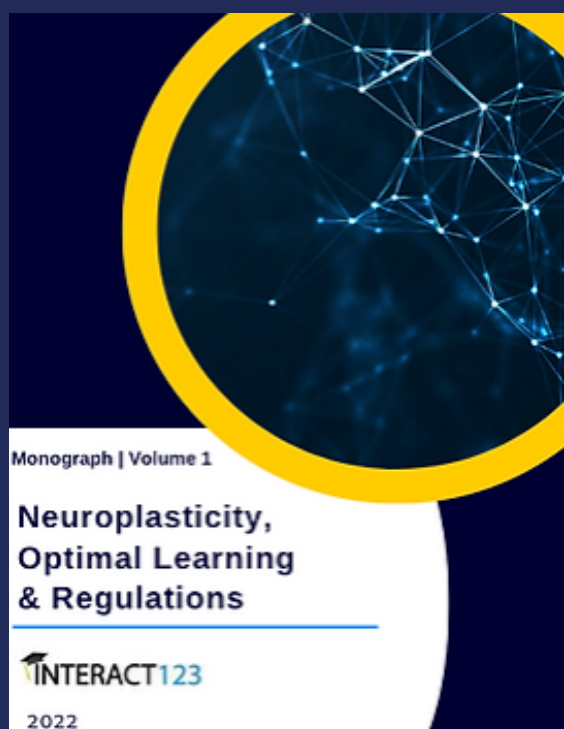


**James E. Zull, Ph.D.**

[\*The Art of Changing the Brain: Enriching the Practice of Teaching by Exploring the Biology of Learning\*](#)

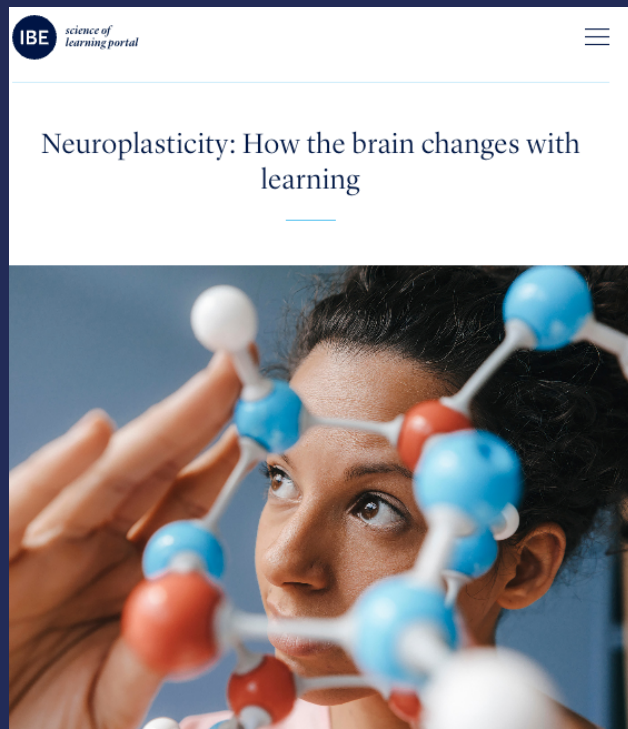
"James Zull's crystal-clear mapping of how learning occurs, how learning changes the brain, and how many parts of the brain are activated as one learns should be interesting for all who teach. Zull relays a teaching approach and the neuroscience behind that approach that can dramatically affect learning." *book cover*

## Monographs & Reports



**INTERACT123  
Monograph Series**

[\*Volume 1: Neuroplasticity, Optimal Learning & Regulations\*](#)



**Science of Learning Portal  
Changes with Learning**

[\*Neuroplasticity: How the Brain Changes with Learning\*](#)

# Workshops

Online Learning Consortium

[OLC Institute Schedule: Upcoming Workshops](#)



Neuro, Cognitive & Learning Sciences Series:

- Part 1: Bringing Theory to Practice
- Part 2: Applying Theory to Practice
- Regular and Substantive Interaction, Policy & Practice
- Instructional Design

Online Nursing Mastery Series

# Videos



**“After Watching This, Your Brain Will Not be the Same”**

Dr. Lara Boyd, University of British Columbia

[Video](#)



**“Neuroplasticity: The Science Behind Rewiring the Brain”**

Dr. Michael Valenzuela, The University of Sydney

[Video](#)



**“How Does the Brain Learn New Knowledge?”**

Dr. Juan Manuel Galeazzi, University of Oxford

[Video](#)

# Articles

[A methodological perspective on learning in the developing brain](#)

van Duijvenvoorde, A. C. K., Whitmore, L. B., Westhoff, B., & Mills, K. L. (2022). *Science of Learning*, 12, 1-6.

[Taking neuroscience to school](#)

Frye, H. (2022, August). Georgetown University.

[Neuroscience concepts changed teachers' views of pedagogy and students](#)

Chang, Z., Schwartz, M. S., Hinesley, V., & Dubinsky, J. M. (2021). *Frontiers Psychology*, 12, 685-85.

[Effects of teaching the concept of neuroplasticity to induce a growth mindset on motivation, achievement, and brain activity: A meta-analysis](#)

Sarrasin, J. B., Nenciovici, L., Foisy, L. M., Allaire-Duquette, G., Riopel, M., & Masson, S. (2018). *Trends in Neuroscience and Education*, 12, 22–31.

[Putting neuroscience in the classroom: How the brain changes as we learn](#)

McCandliss, B., & Toomarian, E. (2020). *The Pew Charitable Trusts*.

[UDL & the learning brain](#)

CAST. (2018).



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**Research Round-Up**

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*Educators are brain changers!*