

Wallpaper Activity:

Which teaching skills
would you like to
improve or acquire, in
general?





AFFECTIVELEARNINGINSTITUTE

**Faculty-Driven Professional Development for Equity Based
Instructional Innovation and Campus Cultural Transformation**

By Leida Tolentino, PhD
Santa Barbara City College



Icebox
Icebreaker

“I really can't thank you enough. The experience was invaluable. Parts of it were haunting and reassuring and exciting and humbling. It is hard to pinpoint exactly how, but this "conference" was somehow different. I feel changed, like I somehow get something I didn't get before. It's daunting because I can glimpse the enormity of what is ahead of me, of what has always been there that I couldn't quite see (though I am just beginning to see aspects of it). I am also filled with great hope. I do not feel alone.”

Exit Survey following ALI Conference May 2018

Communicate Learning Objectives: Be Transparent



After completing this workshop participants will be able to...

1. Broadly define non-cognitive teaching, and understand the relationship between neuroplasticity, fear, and student success
2. Apply non-cognitive tools and strategies in the classroom and campus programs immediately
3. Imagine a model for faculty-led equity-based cultural transformation at their home institution

What is Non-cognitive or Affective?

Foundational social, emotional, and mindset skills and knowledge necessary to succeed in cognitive/content learning.

1. Cultural Wealth and Relevance
2. Social-Emotional Communication
3. Neuroplasticity and Brain Science
4. Mindfulness

EXAMPLE: “Belonging” in an HSI

A group of diverse people are riding a roller coaster. They are wearing yellow safety harnesses and have their arms raised in excitement. The background is a clear blue sky. The text "This Workshop is Pedagogical and Experiential" is overlaid in white, bold, sans-serif font.

**This Workshop is
Pedagogical
and Experiential**



NeuroMyth Quiz

True or False?

“Any man could, if he were so inclined, be the sculptor of his own brain.”

Santiago Ramón y Cajal, 1906 Nobel Laureate

Neuroplasticity & Behavior: Music and Cab Drivers

- **Pianists & cellists** have thicker cortex in areas that control fingers

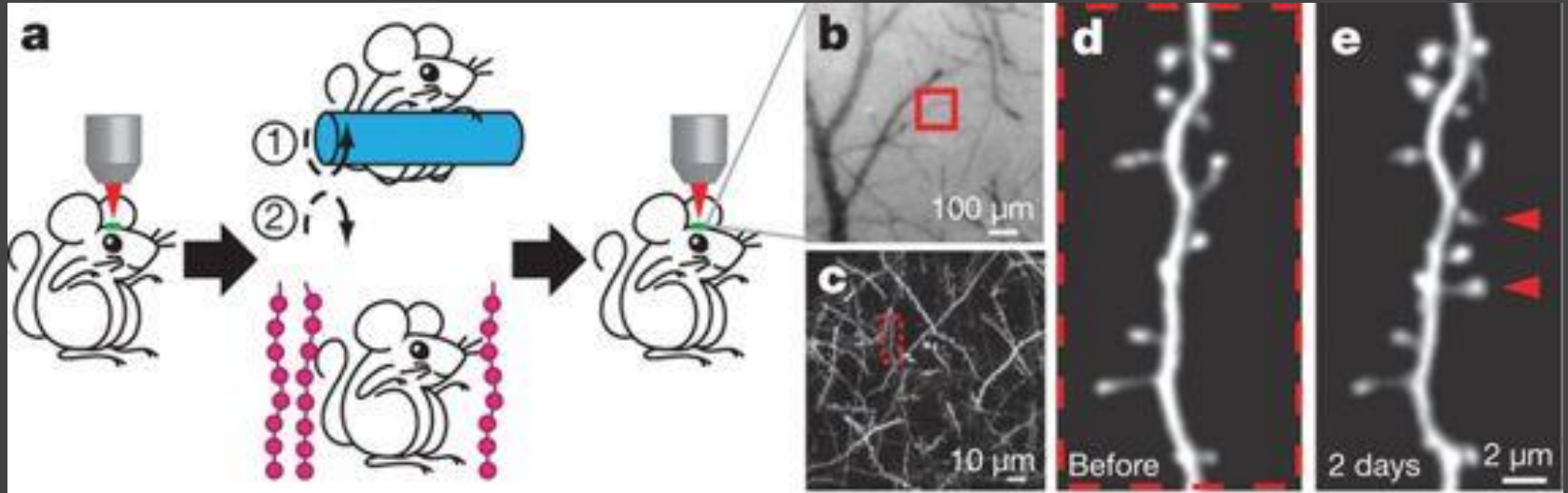
(Groussard et al., 2010; Jäncke et al., 2009; Münte et al., 2002)

- London **taxi drivers** have (partly) larger hippocampi (Maguire et al., 2006)

Mechanisms: **Modified connections** (synapses & myelination) and **chemical efficiency**



Dendritic Growth Following Learning



Plasticity is not good or bad: It is pure adaptation!

Yang, G., Pan, F., & Gan, W.-B. (2009). Stably maintained dendritic spines are associated with lifelong memories. *Nature*, 462(7275), 920–924.

Saber-Toothed Tiger



=

Fear!!

Psychology Exam



Emotions Matter!

- Fear
- Frustration
- Boredom



- Attention & perception
- Memory & problem solving
- *Fixed (rigid) mindsets!*

Thought

PREFRONTAL CO

Emotion

Memory

HIPPOCAMPUS

Center of short-term
of fear to the co
event occurs. El
by stress can af
Matures in early

Card Trade Activity

- Pick a “fear card” and move up to someone
- Suggest a way to alleviate the fear from a professor’s standpoint
- Trade cards and repeat

Affective Learning Institute

Retreat and
Conference



Crossroads
Anti-Racism/
Culturally Responsive
Pedagogy Workshop

SOTL Research Fellowship

ALI Facilitators (approx. 10)

Jenny Baxton, English, Neuroplasticity and Brain Science

Ellen Carey, Library Studies, Mindfulness

Melinda Gandara, Ethnic Studies, Community Cultural Wealth and Relevance

Pam Guenther, Mathematics, Neuroplasticity and Brain Science

Rebecca Gutierrez, Communication Studies, Social-Emotional Communication

Elizabeth Imhof, FRC Director, Lead Facilitator

Tina Kistler, Communication Studies, Social-Emotional Communication

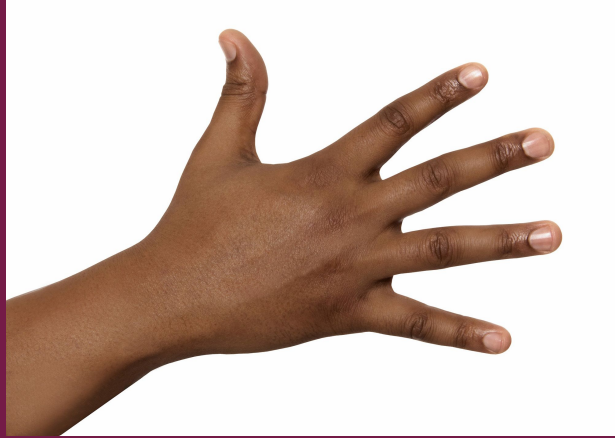
Alice Perez, Former Social Science Dean, Experiential Learning Strategies

Leida Tolentino, Psychology, Neuroplasticity and Brain Science

Christopher Ulivo, Art, Experiential Learning Strategies



Formative Assessment: How Well Did We Meet These Learning Goals?



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Thank you!

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