

The Effects of Lead Exposure on Learning: The Way Forward

University of Rochester Medical Center
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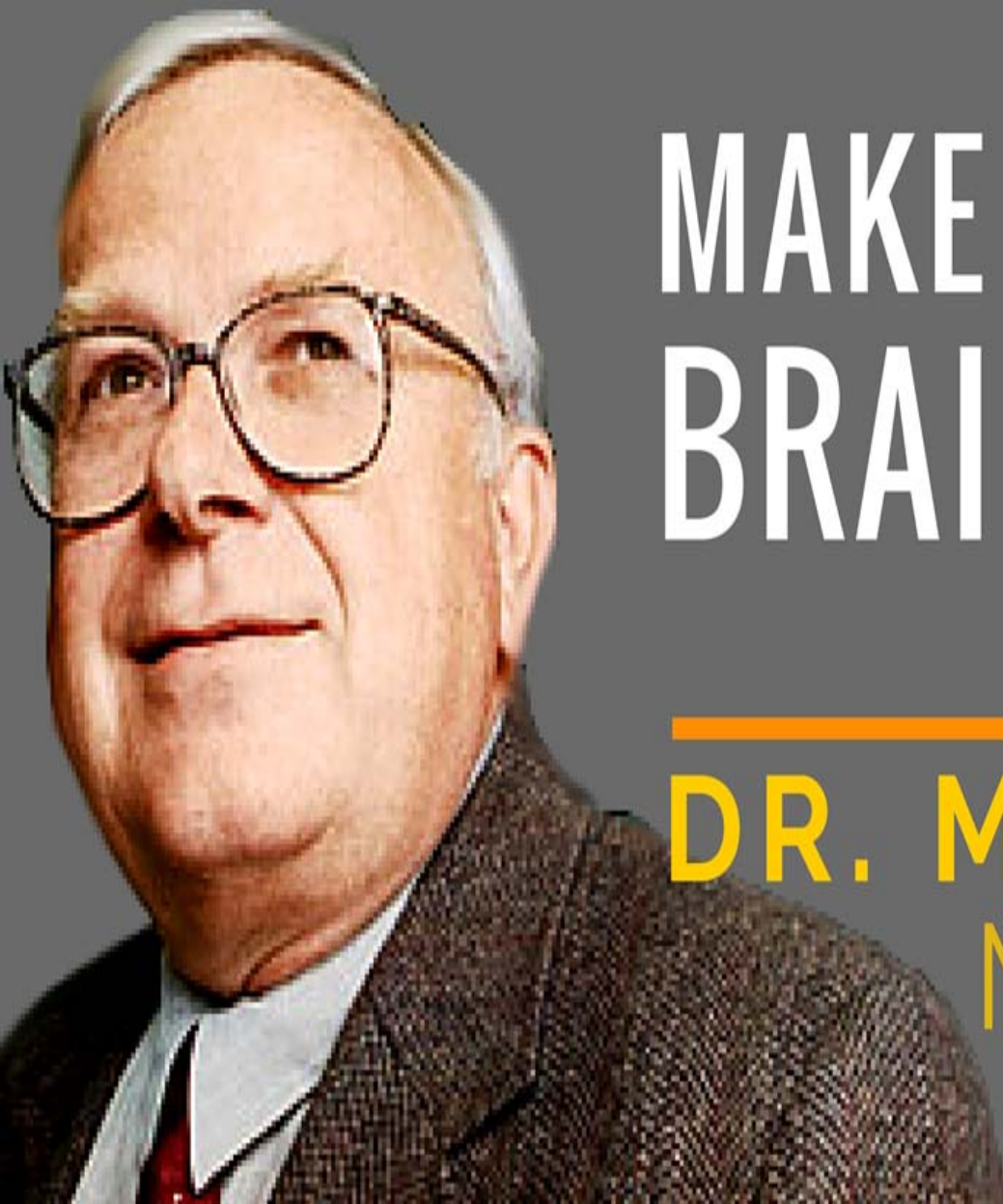
PRINCIPAL



APQ : xbr # 3448
AYO : bng # 7837
DDB : vmi # 9832
ZNF : mss # 1138
MBK : nsp # 8398
GGG : pps # 1811
ZML : cpo # 3283
GOT : gnp # 4949
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LPS : gnp # 4949
AVL : vpr # 9398

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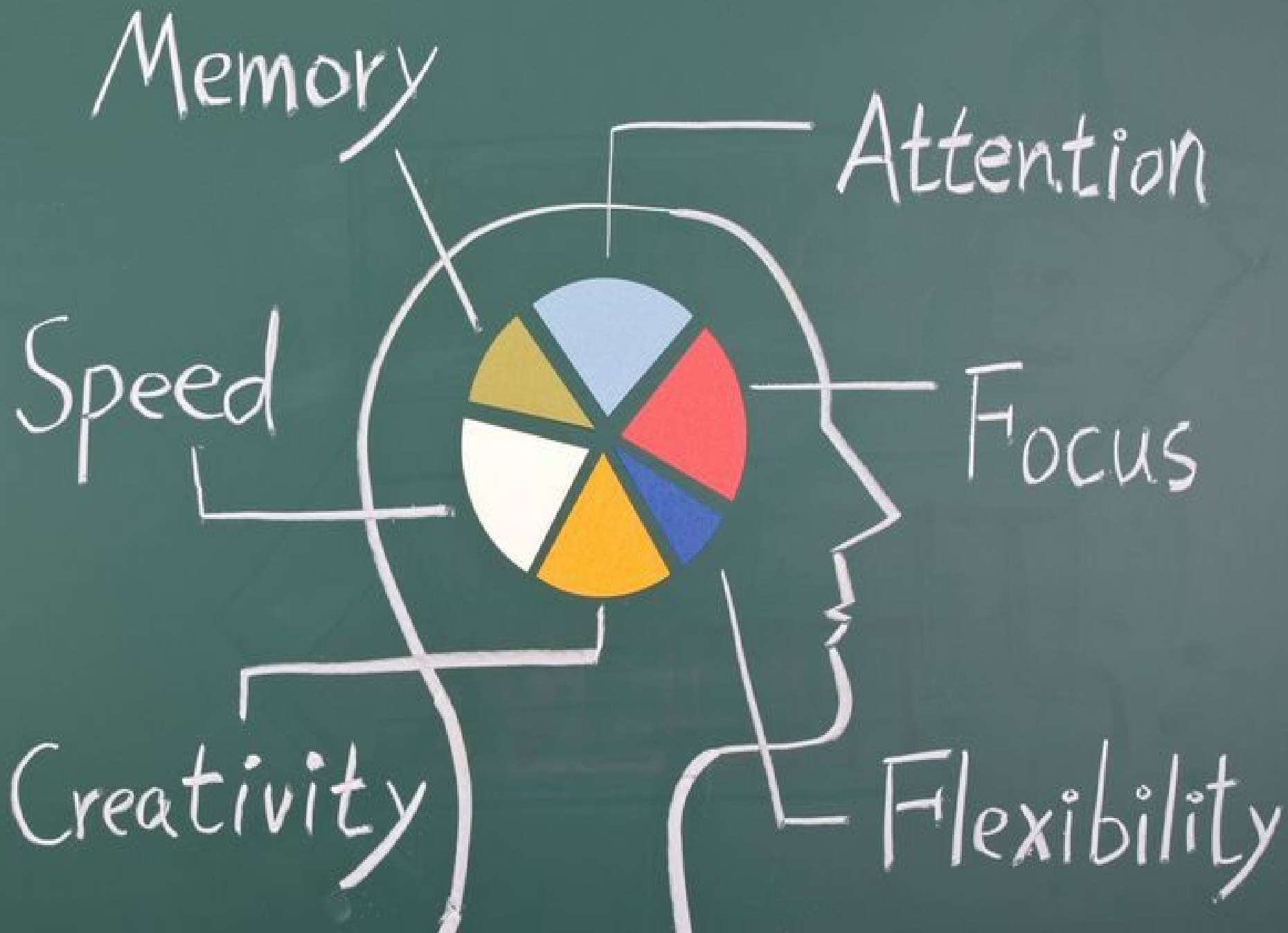




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**DR. MICHAEL
MERZENICH**

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Executive Function

- Executive function skills are the attention-regulation skills that make it possible to:
 - ✓ Sustain attention
 - ✓ Keep goals and information in mind
 - ✓ Refrain from responding immediately
 - ✓ Resist distraction
 - ✓ Tolerate frustration
 - ✓ Consider the consequences of different behaviors
 - ✓ Reflect of past experiences and
 - ✓ Plan for the future

The company that produces ACTIVATE software is called C8 Sciences because there are 8 core cognitive capacities in regard to Executive Function in the brain:

1. Sustained attention
2. Working memory
3. Speed of information processing
4. Response Inhibition (ability to control your response to distractions/events/situation going on around you)
5. Cognitive flexibility (ability to think creatively)
6. Category Formation (ability to prioritize tasks and organize information)
7. Pattern Formation (combining past experience, intuition and common sense to recognize patterns and predict what will happen next)
8. Multiple Simultaneous Attention (ability to multi-task with success)













MOVING FORWARD MATTERS