

The Effects of Lead Exposure on Learning: The Way Forward

University of Rochester Medical Center

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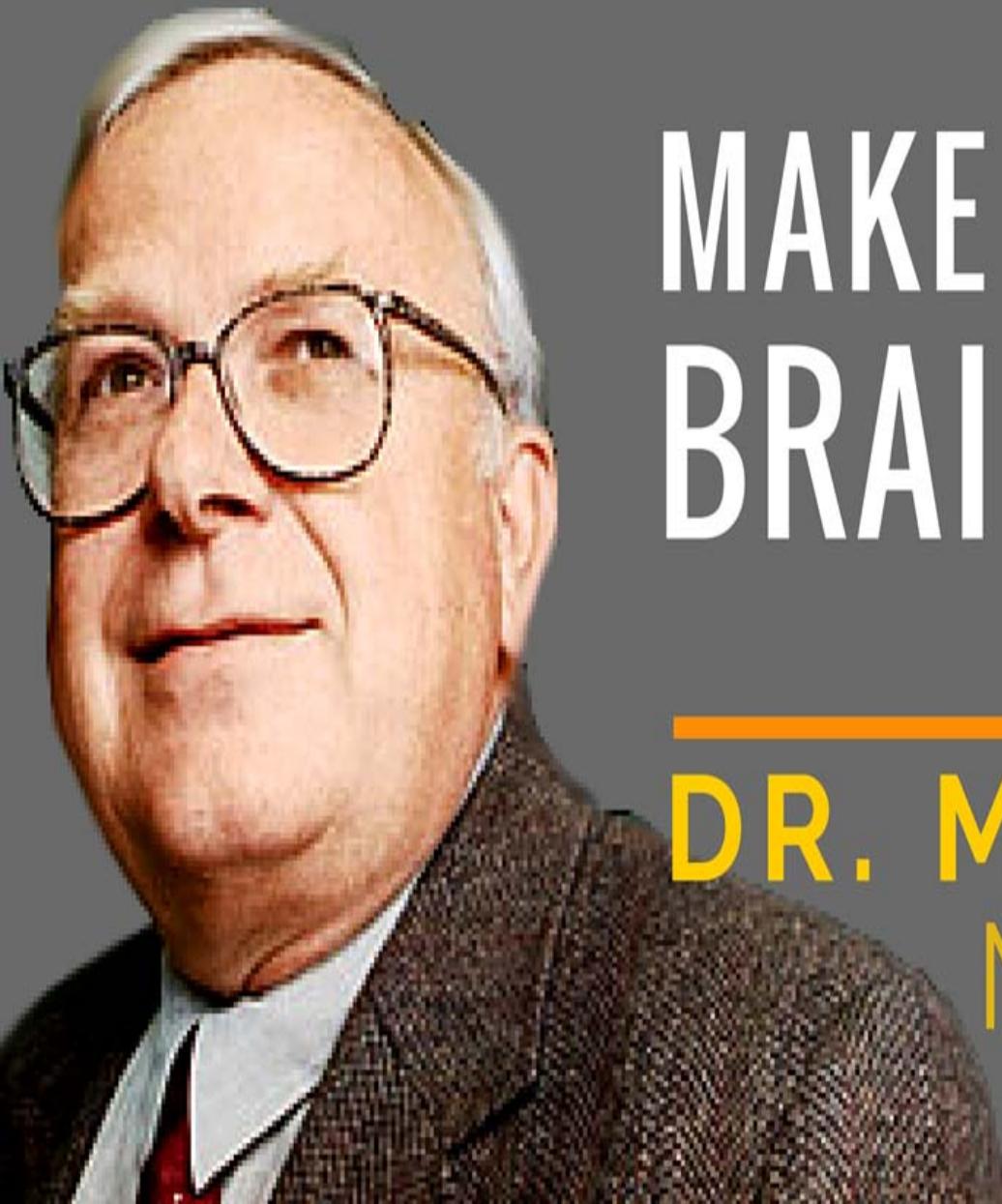
PRINCIPAL



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MAKE YOUR BRAIN SMARTER AT ANY AGE

**DR. MICHAEL
MERZENICH**



Memory

Speed

Creativity

Attention

Focus

Flexibility



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)





RESEARCH

TEACHING EXPERIMENTAL SCIENCE

peace
relationships
support
reconciliation
offenders
redemption
closure

victims
retributive
forgiveness
zehr
communities

advocate
proportion
mediation
reintegrate

restorative justice

Aa Bb Cc Dd Ee Ff Gg Hh Ii Jj Kk Ll Mm Nn Oo Pp Qq Rr Ss Tt Uu Vv Ww Xx Yy Zz

Teacher Demonstrations

On Classroom Activities

Student Demonstrations



Justice Systems



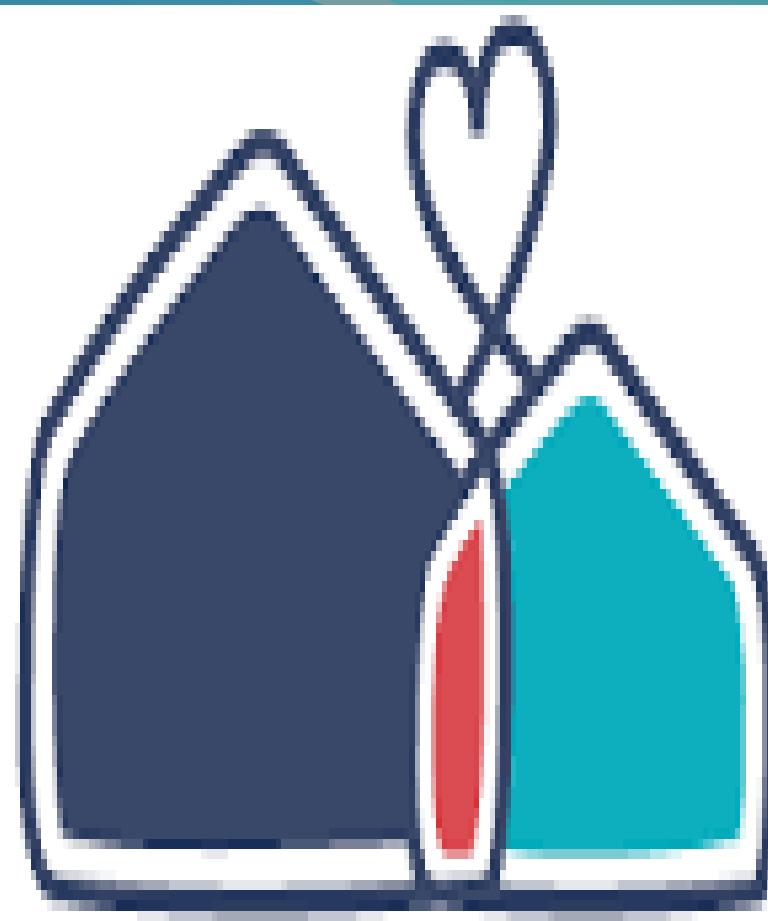
Restorative Justice
Reparative - repair
Recidivism - repeat offender
Sanctioning ← Separate
Mediation → Neutral Person
Re-integrate - help home

Discrepancy
Cognitive
Emotional
Behavioral
Social









MOVING FORWARD MATTERS