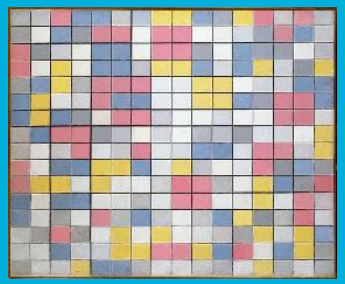
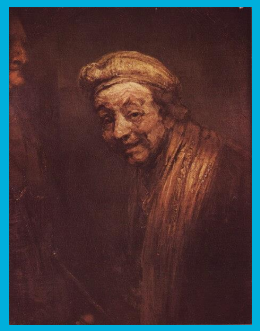
Santa Fe Working group

Dynamical Resilience in Aging



Santa Fe Nov 12-13 2018



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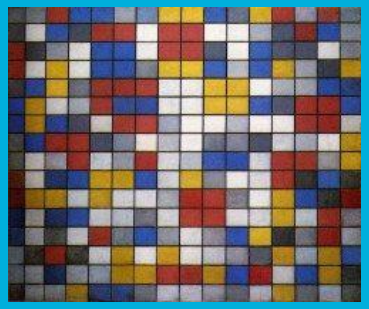
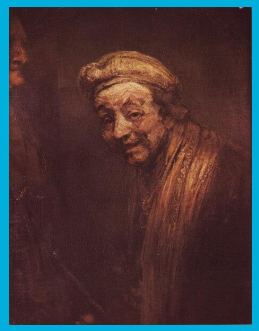
Santa Fe Working group

Dynamical Resilience in Aging



Santa Fe Nov 12-13 2018



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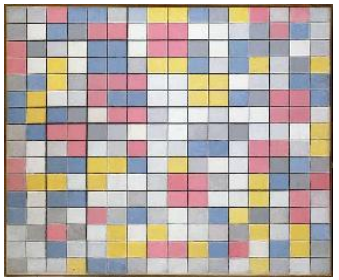
Urgency Resilience Research



1. **Multiple health catastrophes**
    a) Hurricanes
    b) Terrorism
    c) Microbes
    d) Etc, etc…

2. **“Red Zone” in aging by multiple stressors**
    a. Multimorbidity competion
    b. Invasive iterventions
    c. Bio-psych-social

Urgency Resilience Research

3. New data acquisition methods

a) Health monitoring

b) Wearables

c) Daily life data of crowds

4. New analyses methods

a. Machine learning

b. Agent based and/or network modeling

c. Entropy bases

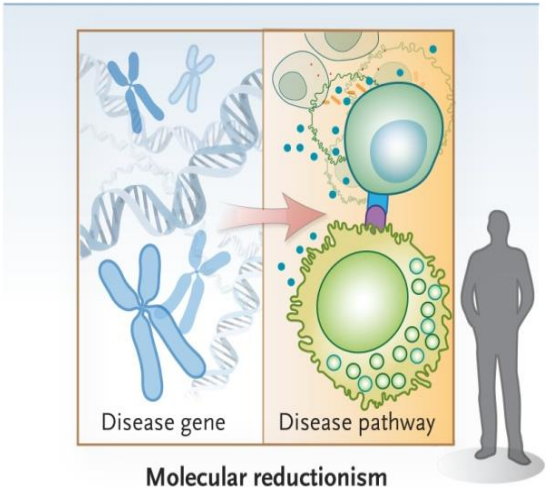
d. DIORs

Opportunity Resilience Research

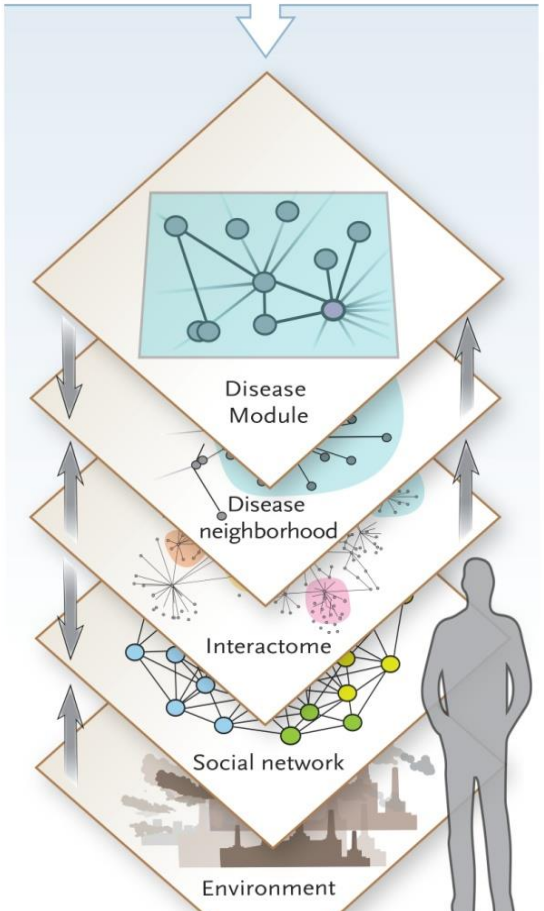
5. **Interprofessional synergy**

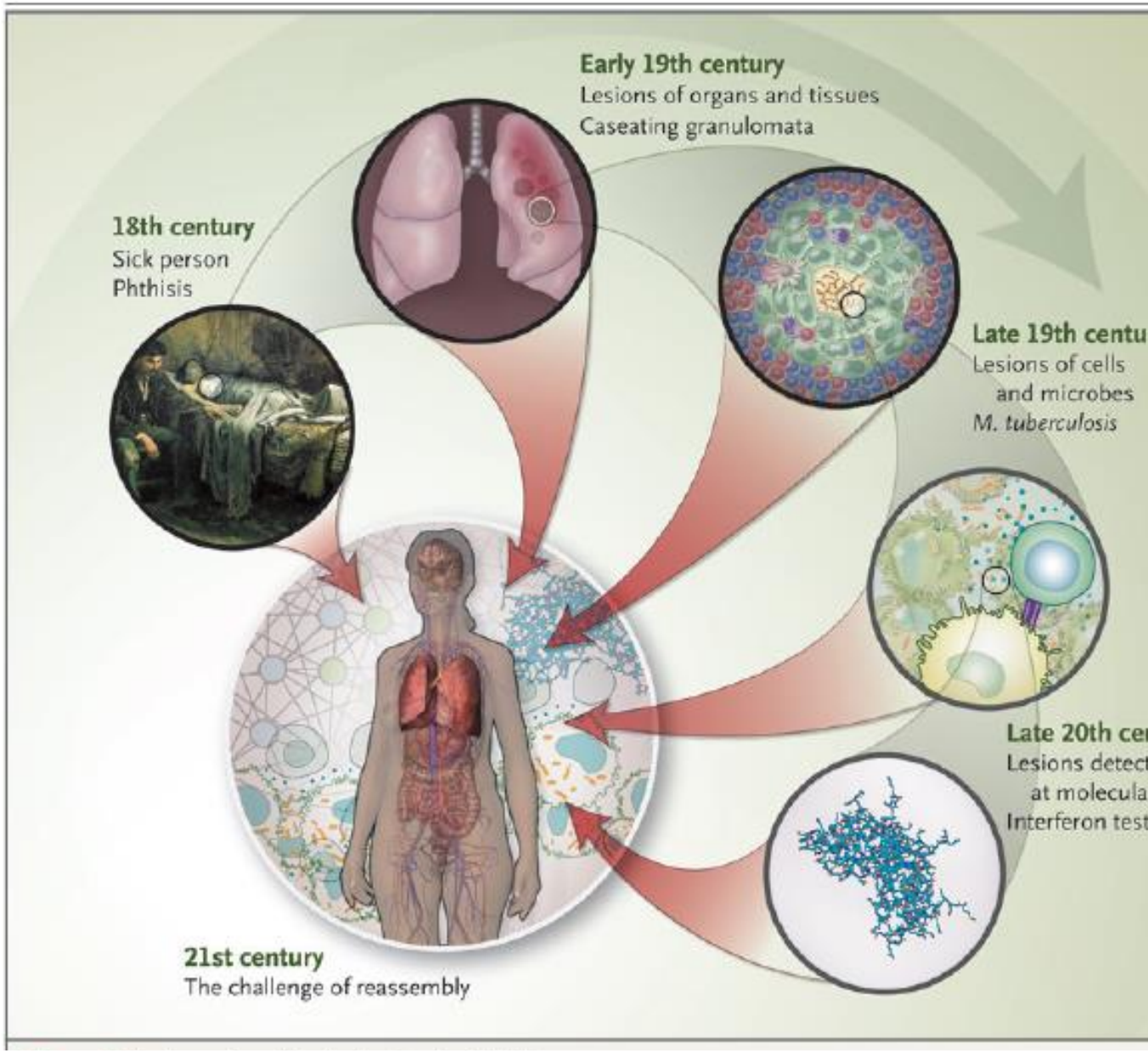
6. **Putting the patient together again**

Bremer musicians



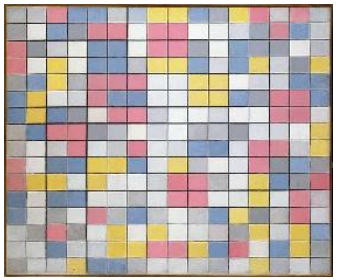
Molecular reductionism





NEJM Dec 2017 Greene et al

Resilience concept (starter)



Ability to adapt well after a physical, mental or social perturbation

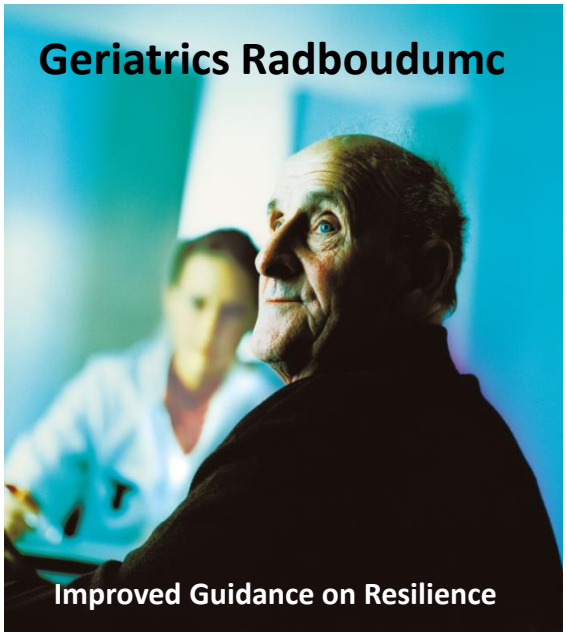
-Define and validate ex-post hoc (APA)

-Not flip side of frailty/ vulnerability

Kalish et al Nature Human Behavior 2017

1669

Resilient= dynamic adaptability


Geriatrics Radboudumc
Improved Guidance on Resilience