

THE POLICY REQUIREMENTS OF GENE-ENVIRONMENT RESEARCH

Paul H. Wise, MD, MPH

POLICY FORMATION

OBJECTIVE ANALYSIS

POLICY FORMATION

OBJECTIVE ANALYSIS



PUBLICATION

POLICY FORMATION

OBJECTIVE ANALYSIS



PUBLICATION



POLICY

POLICY FORMATION

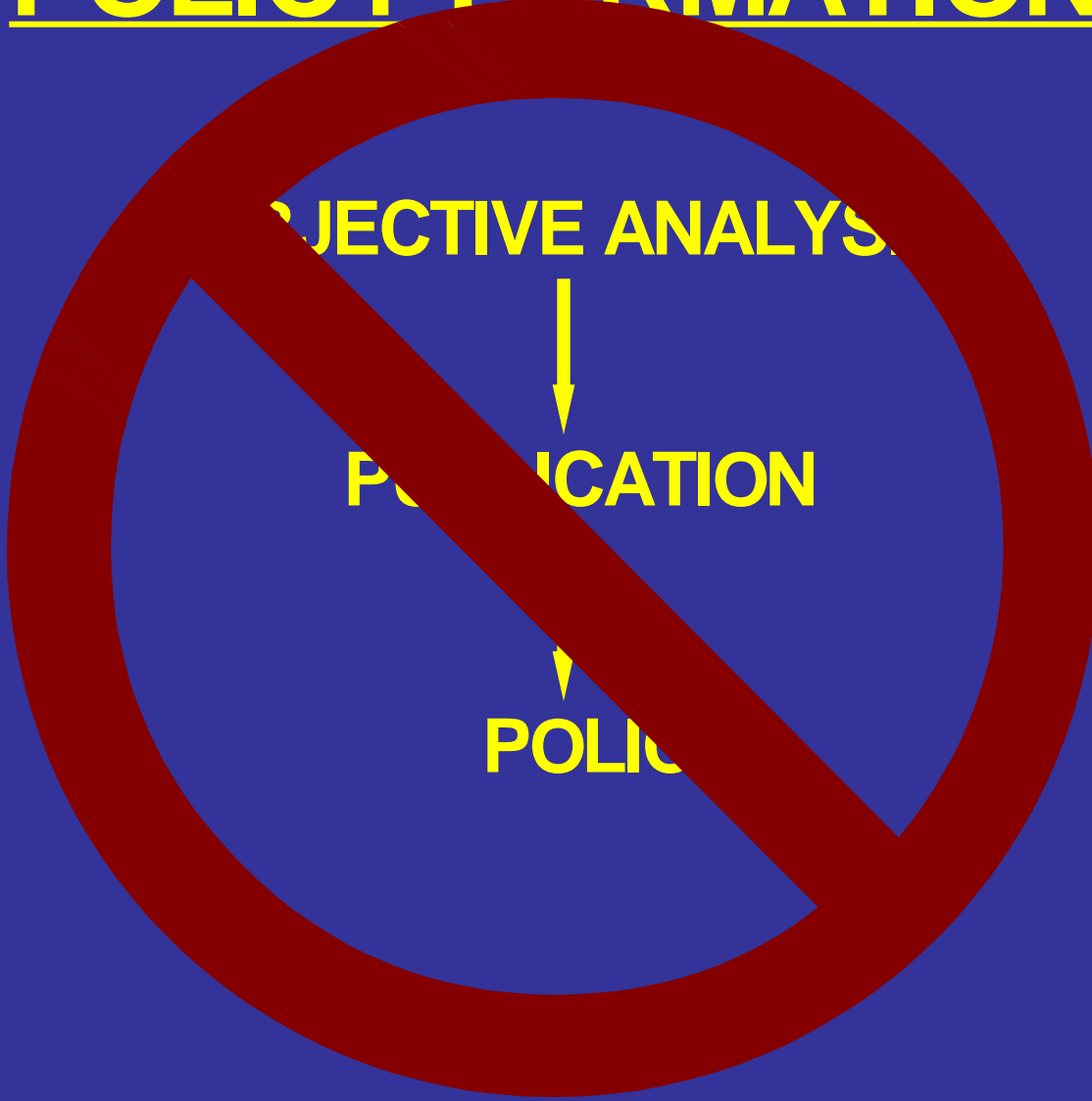
OBJECTIVE ANALYSIS



PUBLICATION



POLICY





NEW YORK TIMES & USA TODAY BESTSELLER

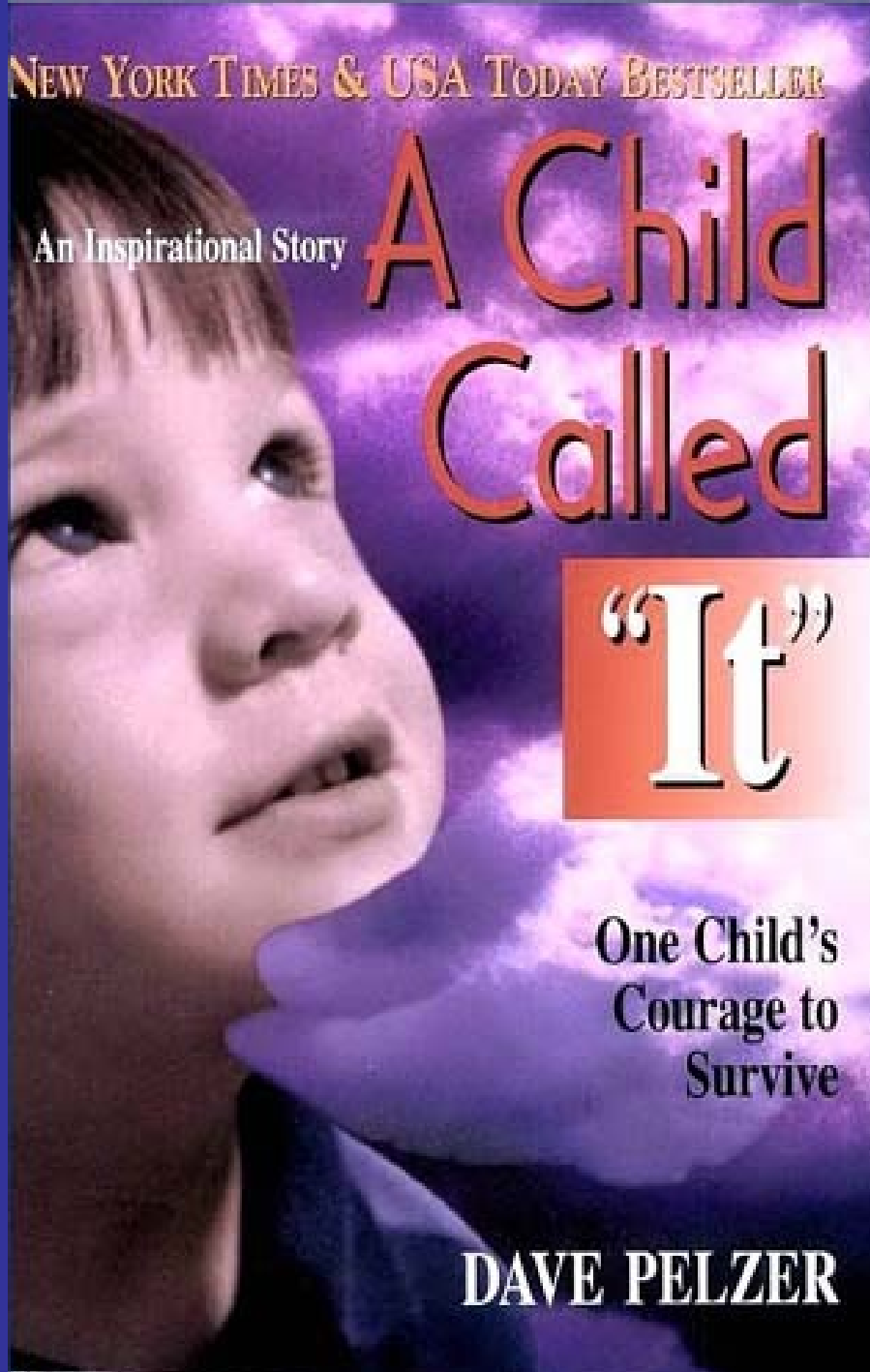
An Inspirational Story

A Child Called

“It”

One Child's
Courage to
Survive

DAVE PELZER



NEW YORK TIMES & USA TODAY BESTSELLER

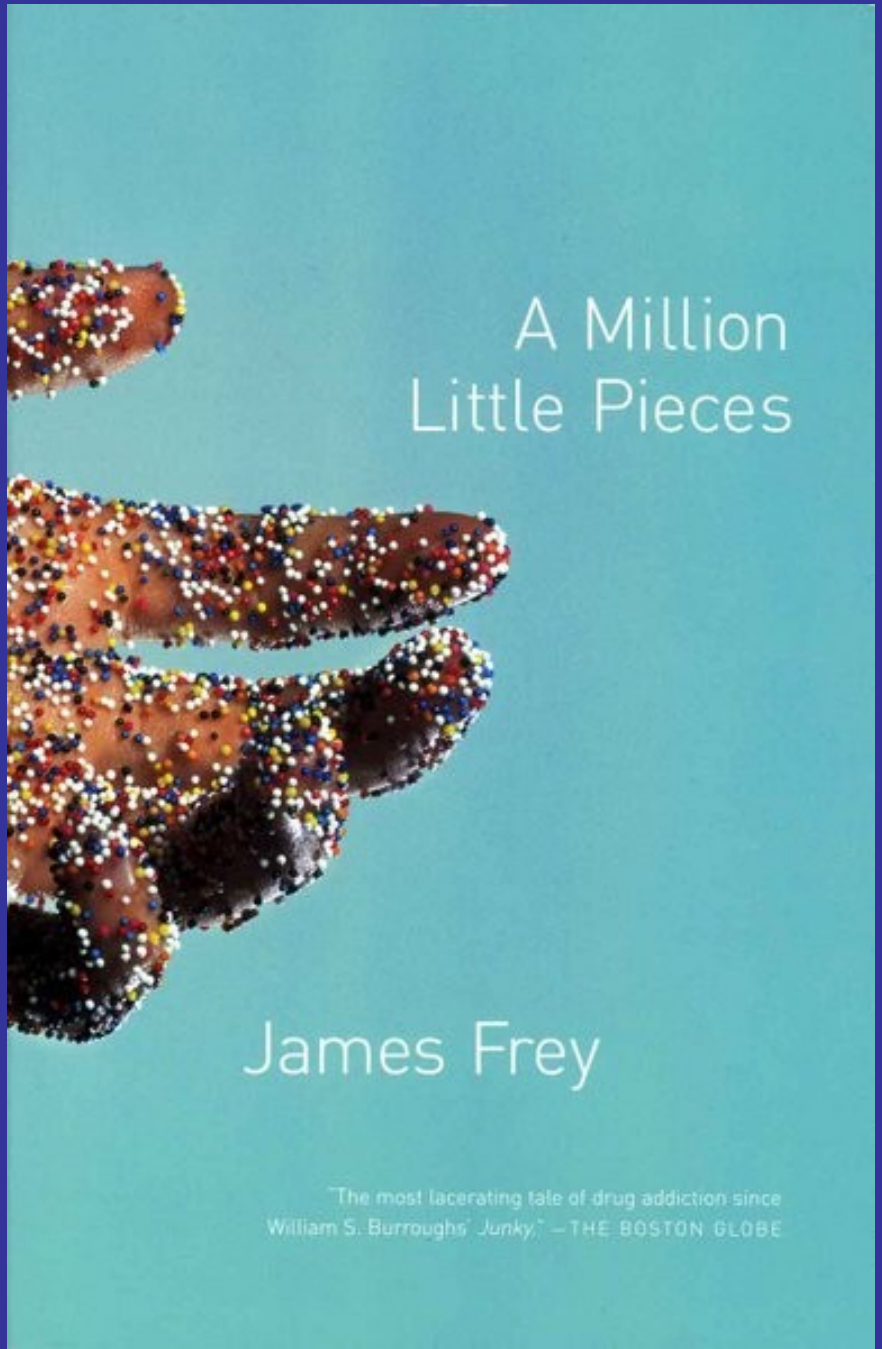
An Inspirational Story

A Child Called

"It"

One Child's
Courage to
Survive

DAVE PELZER



A Million Little Pieces

James Frey

"The most lacerating tale of drug addiction since
William S. Burroughs' *Junky*." — THE BOSTON GLOBE



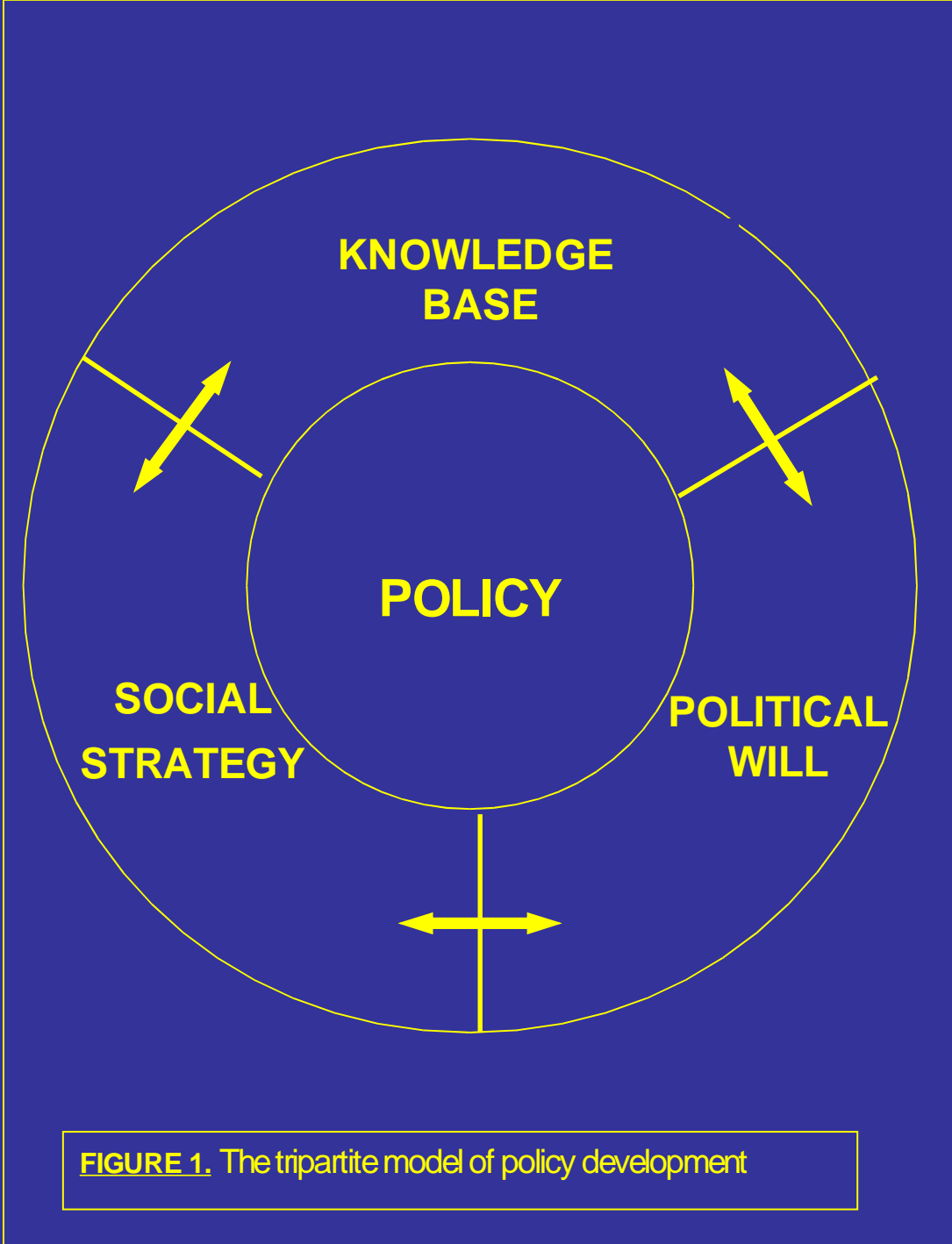


FIGURE 1. The tripartite model of policy development

New Insights of Special Policy Relevance

- G x E Interdependence

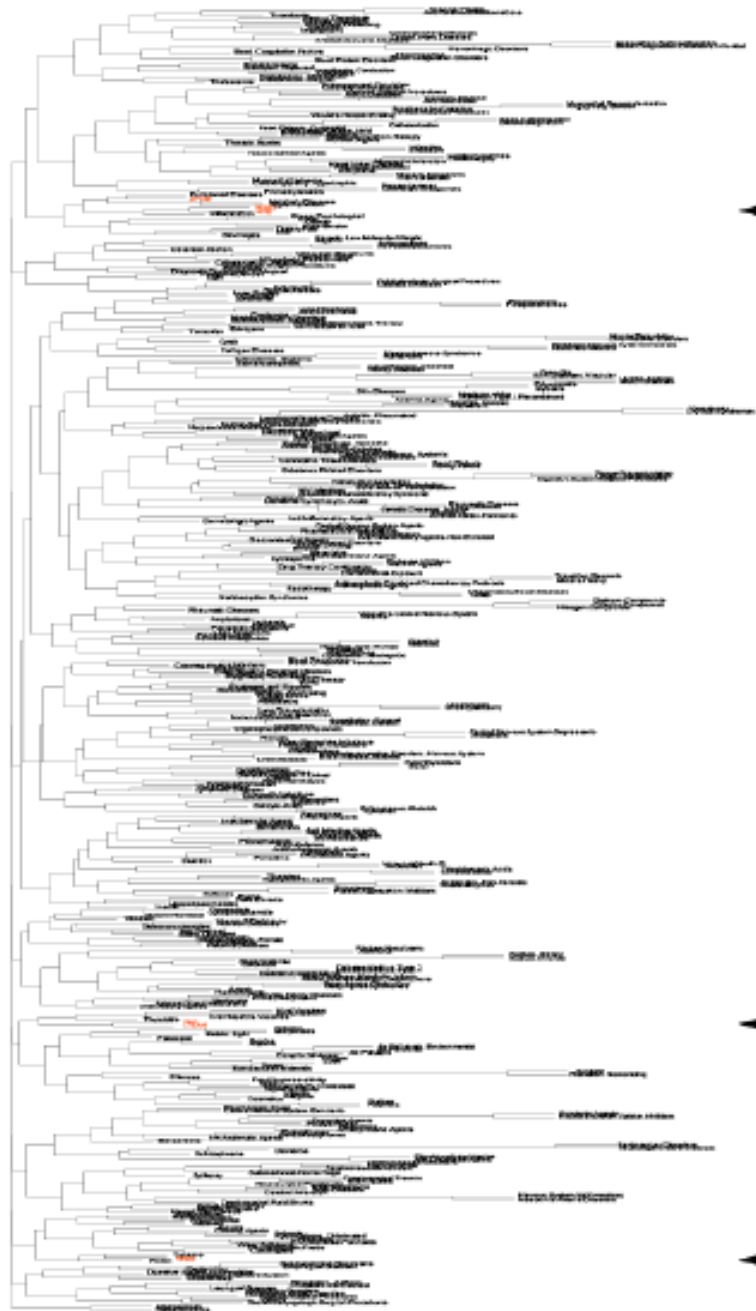
DISEASE-POLICY TAXONOMY

DISEASE-POLICY TAXONOMY



**MULTIPLE G x E
PRECURSORS**

1.0 0.8 0.6 0.4 0.2 0.0



SPLINTERED EPIDEMIOLOGY OF RISK

- Personalized Medicine

SPLINTERED EPIDEMIOLOGY OF RISK

- Personalized Medicine vs Standardized Care

SPLINTERED EPIDEMIOLOGY OF RISK

- Personalized Medicine vs Standardized Care
- Personalized Strategies

SPLINTERED EPIDEMIOLOGY OF RISK

- Personalized Medicine vs Standardized Care
- Personalized Strategies vs Collective Social Strategies

New Insights of Special Policy Relevance

- G x E Interdependence
- Norm of Reaction

NORM OF REACTION

- Genotype-Phenotype relationship changes in different environments

NORM OF REACTION

- Genotype-Phenotype relationship changes in different environments
- Breakdown of “ protective” and “ harmful” exposure dichotomy

*“ Whatever does not kill me
makes me stronger”*

Friedrich Wilhelm Nietzsche

Twilight of the Idols



ARMY STRONG

New Insights of Special Policy Relevance

- G x E Interdependence
- Norm of Reaction
- Developmentally Confined

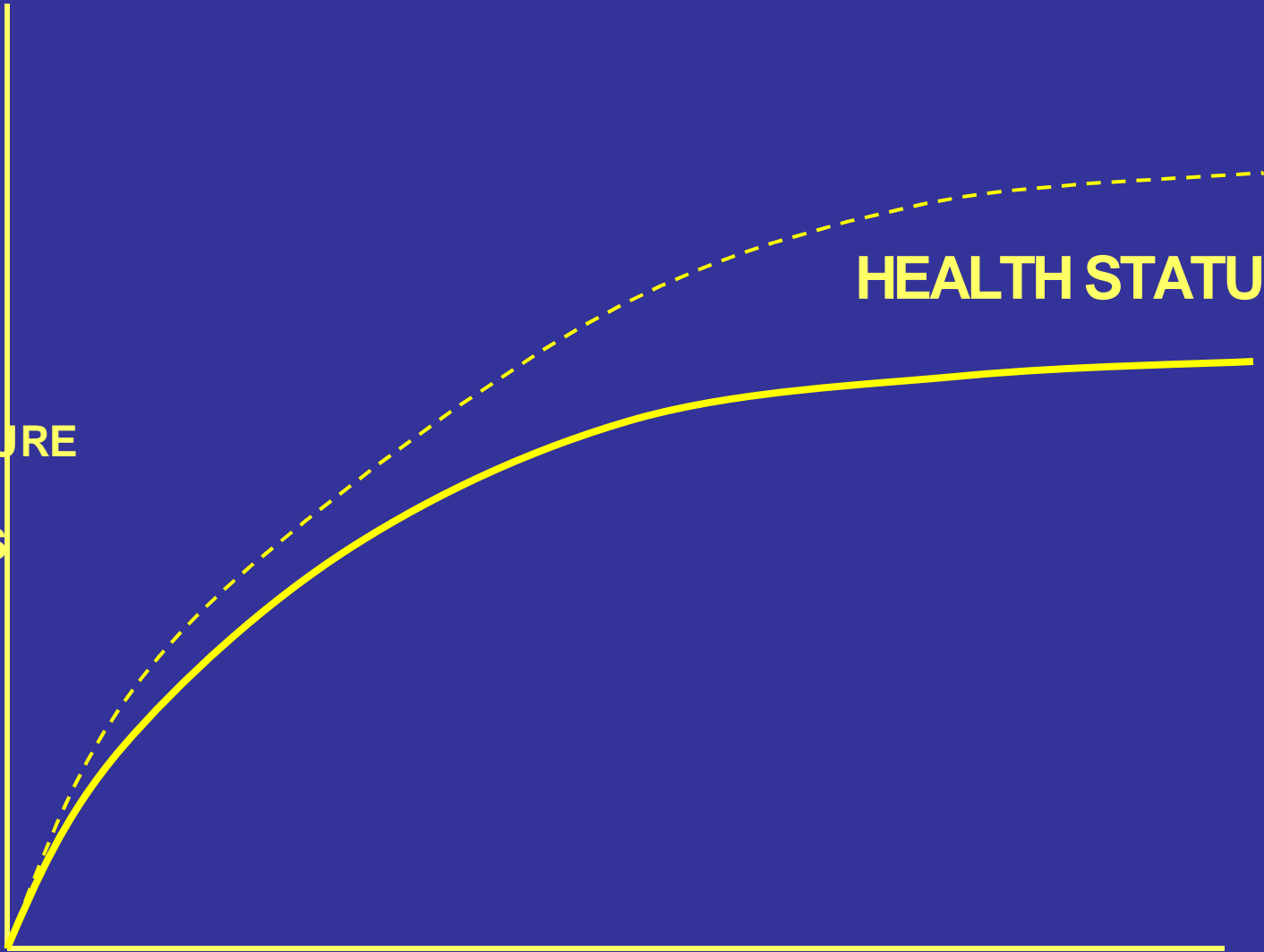
LIFE-COURSE TRAJECTORIES

Nature Precedings : doi:10.1038/npre200812650.1 : Posted 13 Dec 2008

EXPOSURE
or
STRESS

HEALTH STATUS

TIME



POLICY CHALLENGES

- Reaggregation of G x E precursors (Etiome)

POLICY CHALLENGES

- Reaggregation of G x E precursors (Etiome)
- Revisioning of public efficacy (amenability and creation of new social strategies)

POLICY CHALLENGES

- Reaggregation of G x E precursors (Etiome)
- Revisioning of public efficacy (amenability and creation of new social strategies)
- Frameworks for collective action