

The Politics Of Life In The Twenty First Century:

Girona

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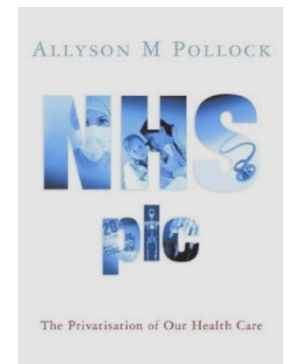
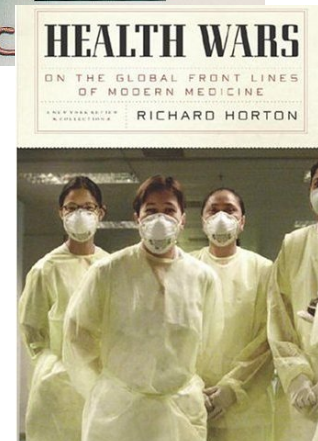
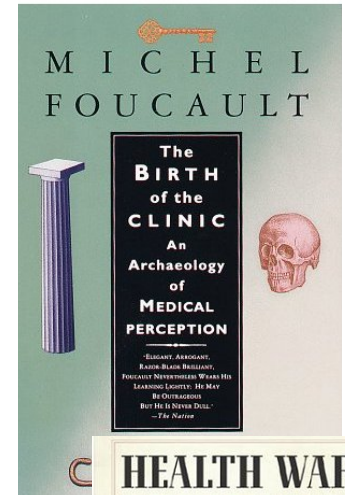
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Society

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Medicine – key changes in last 50 yrs

- Biomedicine itself
 - Belief that capacity to cure grounded in knowledge of basic biology
 - New ‘molecular’ gaze – body (and brain) as engineerable machine
 - Massive investment in biomedical research (public and private)
 - BUT translational gulf between promises and reality
- Health for all
 - Extended of medicine – from curing disease to managing health
 - An individual aspiration – an ethic of life
 - Consumerization of health
 - The active and responsible consumer of medicine
- Capitalization and Globalization
 - Intense capitalisation of biomedicine
 - Market driven paths of innovation
 - Globalization of biomedical research
 - Of market for drugs and devices
 - Of therapies and access to them (health tourism)
- Governance and regulation
 - Management by regulators, insurance, HMOs...
 - Perception of novel challenges (eg ELSI and genomics)
 - Enwrapping the practice of the cure and the practitioners of medicine



Biopolitics

‘Life itself’ (not just how it is lived) has entered politics

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Political contestations about the management of our very vitality as human living human beings, and the forms it could or should take.

-

A field of transactions between each and all,
Between the one and the many

Biopower and Biopolitics

- The ways in which ‘vitality’ of human beings as living creatures, individually and collectively enters political calculation and contestation
- Three elements for an analysis
 - **Truth** – knowledge of life, in particular generated by biology, biomedicine and neuroscience
 - **Power** – authorities of life and vitality, who articulate the truths and advise us how to live
 - **Subjectivity** – reshaping our very ideas of who we are as human beings, personhood, identity, belonging, and our vital similarities and differences from others

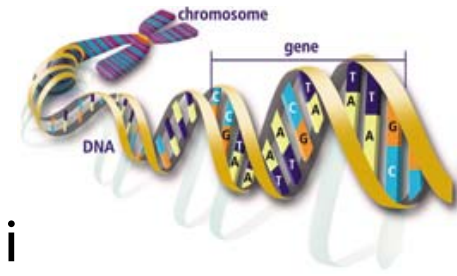
Biopolitics in C21

- The Politics of Life Itself
 - Molecularization
 - Optimization
 - Subjectification
 - Expertise
 - Bioeconomics
- The Somatic Ethic and the Spirit of Biocapital

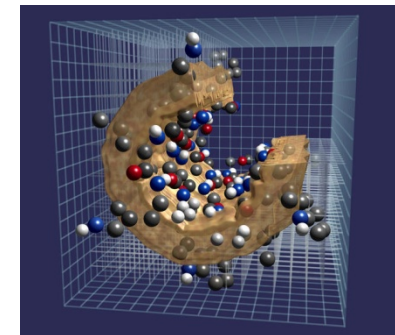
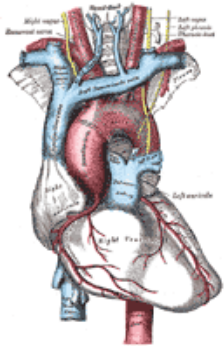
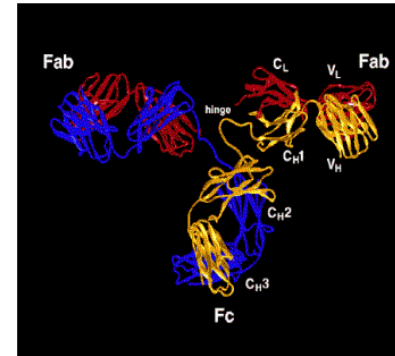




Molar to Molecular

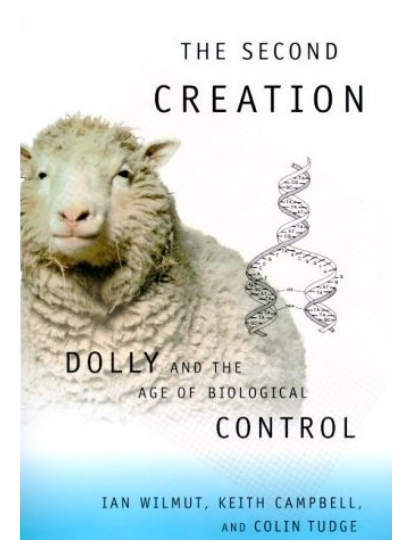
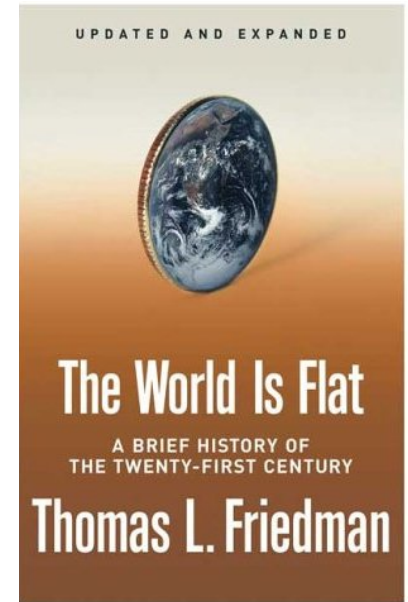


- From 'molar' to 'molecular' image of life
- A molecular style of thought (Fleck)
- Life as mechanism, not mystery
- Vitality open to engineering at this scale
 - Reproductive technologies
 - Pharmaceuticals
 - Genomics
 - Biotechnology
 - Synthetic biology
 - Genetic engineering
- Biology not destiny but opportunity
- The Age of Biological Control?



Technologies of optimization

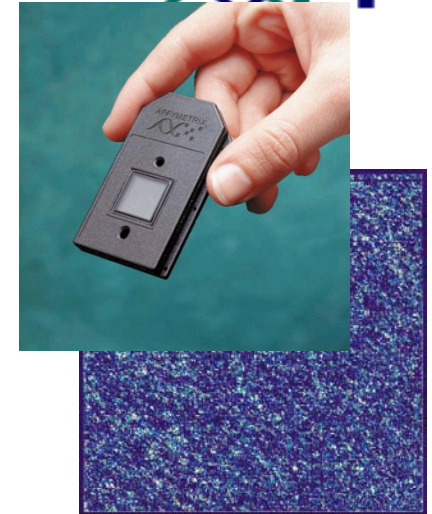
- A flattened biology
- From cure to control
- Technologies of life
- Bringing the vital future into the vital present and making it calculable and manageable
- Optimization
 1. Susceptibility
 2. Enhancement



I. Susceptibility

- Rewriting human difference (individual and population) at the molecular level
- From mutations – “the gene for” to SNPs for susceptibilities to common complex disorders, e.g. depression.
- From genetics (single genes/determinism) to genomics (multiple protective and disposing sites/probabilism)
- Predisposition, risk, susceptibility
- Presymptomatic and asymptomatic illness
- Presymptomatic testing
- Risk, prevention, precaution

AFFYMETRIX®



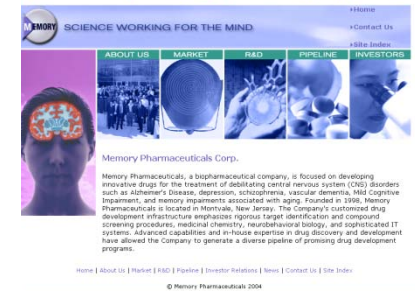
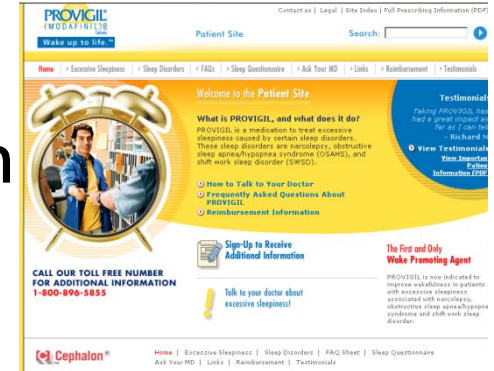
Affymetrix GeneChip® probe array, and data from an experiment showing the expression of thousands of genes on a single GeneChip® probe array
Images courtesy of Affymetrix

Discovery of Susceptibility Genes for Human Behaviors and Mental Illnesses: Challenges of predictive genetic tests

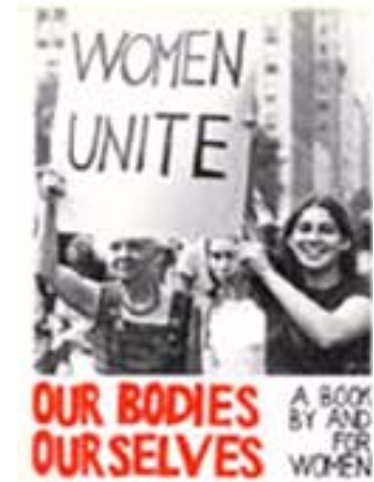
Department of Psychiatry Grand Rounds
Elliot S. Gershon, M.D.
September 10, 2001

2. Enhancement

- From normalization to customization (Clarke)
- From serendipity to precision
- From cyborgs (less biological)
- To the re-engineering of life from the inside (more biological)
- Life becomes mechanism
- Cartesian bodies (Hacking)?
- Mind as brain, and brain as machine?



Subjectification



- Citizenship since CI8 in Europe linked to ‘biological’ notion of subjects
 - actual, potential, impossible citizens.
- ‘Biosociality’
 - citizens define themselves, affiliations, obligations and rights in terms of their biology.
- Making up biological citizens
 - Citizenship projects
- Forms of biological citizenship
 - Passive citizenship of rights
 - Active citizenship of campaigning groups:
- Somatic individuality
 - Our bodies (our brains) ourselves?
- Biology NOT destiny
- Political economy of hope (Novas)
 - Hope as psychological, biosocial, commercial and cultural



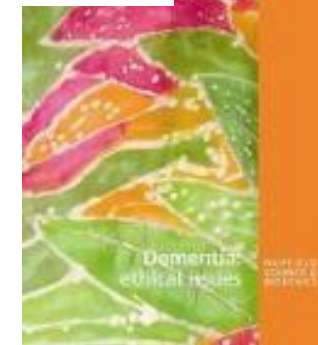
Experts of life itself



- Medics as experts of life
- New relations between medical expertise and its subjects
- Premonitory knowledge (Lock)
- Pastoral power in biomedicine and genetics
 - Ethical principles of informed consent, non-directiveness etc. translated into normative micro-technologies for the management of communication and information.
- Biological responsibility:
 - Reactivated ‘biological prudence’: obligations to take responsibility for personal and familial health and illness, consequences of reproduction
 - New ‘ethical pioneers’ - pragmatic ethics of vitality
- Bioethics:
 - Ethics once inscribed in the medical personage him/herself
 - Now medic surrounded by regulatory apparatus of distrust
 - Ethics as value: corporate ethics: “Life is our life’s work...”
 - Why (how) bioethics today?
- Governance and regulation
 - Anticipatory governance and the government of the future
 - Scenario planning and foresight
 - Upstream engagement
 - Real or symbolic – in the face of the forces of innovation?



NUFFIELD
COUNCIL ON
BIOETHICS

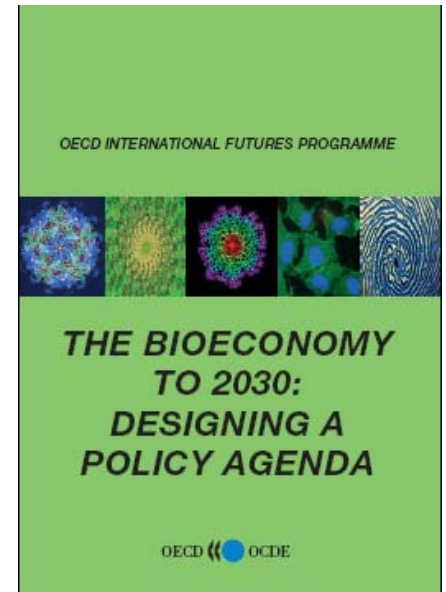


The President's Council on Bioethics



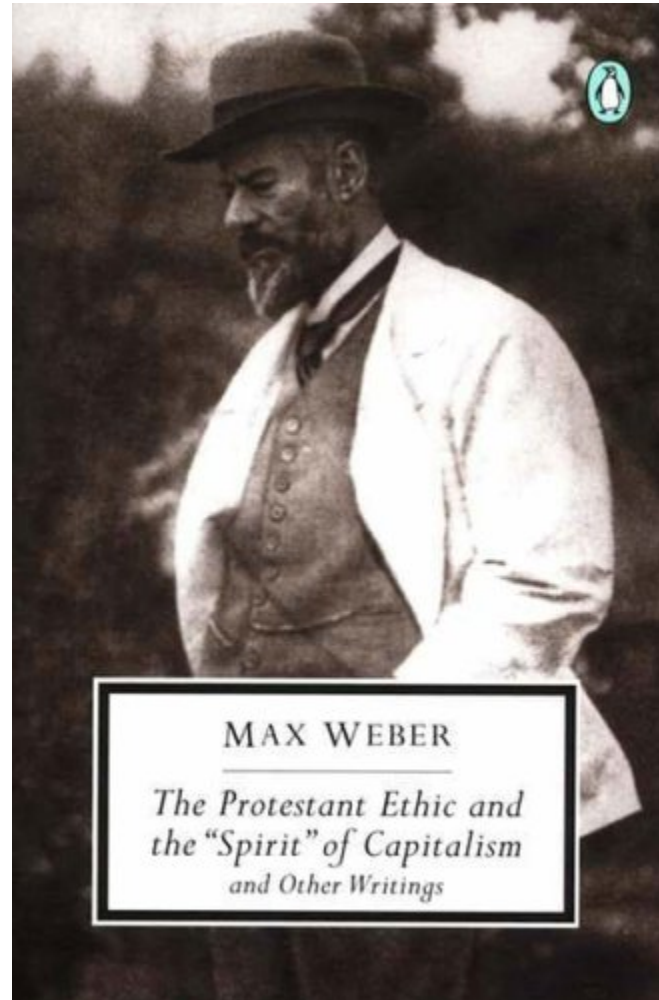
Capitalizing vitality

- The laboratory and the corporation intertwined in the ‘new scientific life’ (c.f. an older notion of science as a vocation)
 - IP and venture capital driven?
- Biovalue: capturing the latent value inherent in life itself
 - Vitality decomposed, stabilized, frozen, banked, stored, commoditized, accumulated, exchanged, traded across time, across space, across organs and species, across diverse contexts and enterprises
- The birth of ‘the bioeconomy:
“that part of economic activities “which captures the latent value in biological processes and renewable bioresources to produce improved health and sustainable growth and development”
- BiocapitalAn economy of expectation
- A path dependent theory of biomedical truth
 - Hence truth shaped by expectation and capitalisation
 - though the imagined future seldom arrives as expected (c.f. the human genome)
 - And can lead to rush to market, inflated claims, and undesirable later consequences



Ethics and Economics

- Max Weber
- An elective affinity between early Calvinism and early accumulative capitalism
- Between a form of extraction: capitalisation
- And a way of conducting ones life: Lebensführung



Somatic Ethics

- Kant's questions:
 - what can I know?
 - What must I do?
 - What may I hope?
- Now posed in 'somatic' terms:
 - 'Soma' – our genome, our neurotransmitters: our 'biology' - given salience
 - Somatic experts articulate rules for living
 - We understand ourselves partly in 'biological' terms
 - Expectations, hopes shaped in terms of maintenance of health and prolongation of earthly existence.

Somatic Ethics and the Spirit of Biocapital

- Does this ‘somatic’ ethical economy have elective affinity with biocapital?
 - Only where life itself has achieved such ethical importance
 - Only where the technologies for maintaining and improving it can place themselves in the service of health and life
- Can biocapital achieve this hold on economies of hope, of imagination and of profit.
- In this sense somatic ethics is intrinsically linked to the ‘spirit of biocapital’ .



Thank you for your attention!

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