The History of Evolutionary Psychiatry { Hannah Sheftel}

- k Key figures in 20th century UK

 It is only toward the end of the 20th century that the study of the evolutional component of mental processes began emerging as a scientific discipline.

Evolutionary Psychiatry

- - Includes people from other countries who wrote in British Journals and collaborated with British figures

Missing People

- k The factionalisation of work in mental health
- & Limitations of evidence
- & Ethical controversies

Key Factors

- k 1809-1882
- & Author of
 - ø On the Origin of Species

 - ø Expression of Emotions in Man and Animals
- Believed psychiatric patients, like young children, were able to experience pure emotions because they could not filter or control them

Charles Darwin

- ▶ Pain or suffering of any kind, if long continued, causes depression and lessens power of action: yet it is well adapted to make a creature guard itself against any great or sudden evil.
- № In the future I see open fields for far more important researches. Psychology will be securely based on the foundation already well laid by Mr Herbert Spencer, that of the necessary acquirement of each mental power and capacity by gradation. Much light will be thrown on the origin of man and his history."

Darwin on mental illness

- k 1744-1829
- Argued for a natural tendency for species to progress towards a higher form and believed in the inheritance of acquired characteristics

Jean-Baptiste Lamarck

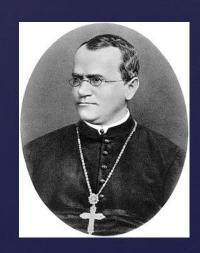
- k 1820-1903
- & Lamarckian and degenerationist
- ⋈ Hierarchical development applied to the human mind as well as the body.

Herbert Spencer

- k 1822-1884

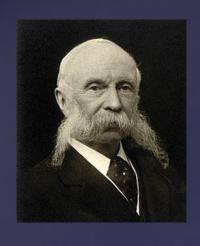
- The importance of his work not fully recognised until the 20th century

Gregor Mendel



- k 1835-1918
- Respectively. Psychiatrist: worked to persuade the GMC to include mental illness in the medical cirriculum
- ⋈ His lectures were studied by Darwin when he was researching for *Expressions*
- Lamarckian: he believed in degeneration theory but advocated against it being used in a
 "meaningless" way

Henry Maudsley



- k 1840-1938
- № Member of the Edinburgh Phrenology Society
- & Correspondent with Darwin
- & Collaborated with Darwin on *Expression of Emotions*
- Expressed concerns that idiots, imbeciles and criminals continued to have children commenting that he felt society was running short of the right sort of babies
- & Crichton-Browne also suggested that the cortical centres of the brain the most highly evolved were the first to suffer from insanity

James Crichton-Brown

- k 1856-1926
- & Dementia Praecox
- № 1908: On the Question of Degeneration
- Linked the rise in the popularity of eugenics to the rapidly increasing number of people suffering from mental illness who were confined to institutional care

Emil Kraepelin

- k 1856-1939
- Neurologist and father of psychoanalysis
- Drew inspiration from the work of Charles Darwin which explained behaviour in evolutionary terms

- Based many of his evolutionary ideas on sexuality in the ice-age

Sigmund Freud

- k 1875-1961
- Representation of the Representation of the
- & Interest in evolutionary psychology
- Relation Ideas are now felt to mesh well with some versions of modern day understandings of natural selection and evolution
- By the 1920s both Jung and Freud had abandoned their early links with evolutionary theory

Carl Jung



- k 1882-1911
- & Wrote Hereditary Genius

- & Rejected Lamarckian ideas

Francis Galton

- k 1887-1975
- & Evolutionary biologist, eugenicist
- & Evolution by small steps rather than jumps
- Modern Synthesis: separating Darwinian theory from social Darwinism, Lamarckianism and degenerationism
- & Synthesis of genetic and population ideas
- Encouraged Bowlby to consider ethology in the field of psychoanalysis
- & Genetics of Schizophrenia
- Argued for voluntary sterilisation and the use of birth control

Julian Huxley

- k 1890-1962
- & Evolutionary biologist, eugenicist and geneticist
- ⋈ One of the three principal founders of population genetics
- Fishers Runaway-the evolution of exaggerated male ornamentation through sex selection as a result of female preference
- Report of the Eugenics Society which campaigned for the right to have voluntary sterilisation on eugenic grounds

Ronald Fisher



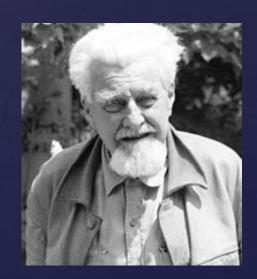
- k 1904-2005
- & Biologist
- ⋈ His work led to the modern synthesis of Mendellian Genetics, systematics and Darwinian evolution
- & Genetics of Schizophrenia with Julian Huxley
- & Eugenicist
- & Schizophrenia as a Genetic Morphism 1964

Ernst Mayr



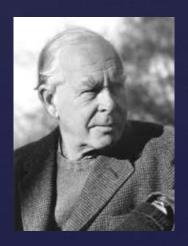
- k 1903-1989
- & Studied instinctive behaviour in animals
- ₩ Worked with Tinbergen

Konrad Lorenz



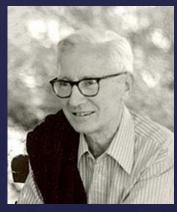
- k 1907-1990
- Registal Psychologist, psychiatrist, psychoanalysis
- ★ Attachment theory
- Theories regarding the existence of a species specific bias to forming attachment as well as individual difference as part of attachment theory
- Emphasised the importance of evolutionary thinking when looking at human development

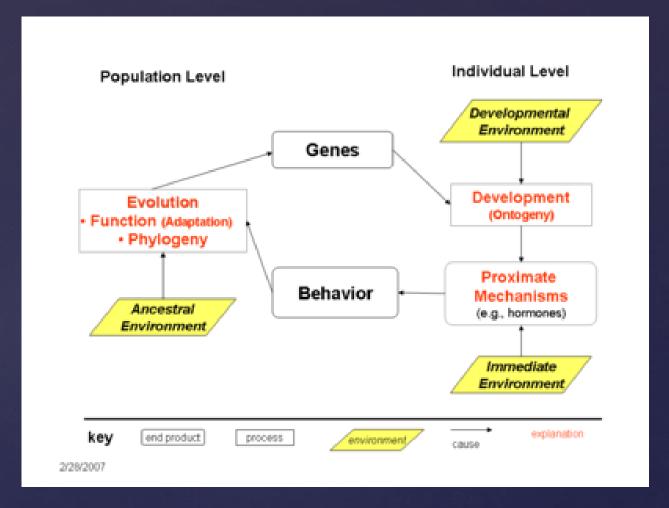
John Bowlby



- k 1907-1988
- Won the Nobel Prize in Physiology and Medicine in 1973 along with Karl von Frisch and Konrad Lorenz for their work on individual and social behaviour and patterns in animals
- - ø Causation (mechanism)
 - ø Development (ontogeny)
- & Autism controversy: refrigerator mother

Niko Tinbergen





Tinbergen's model

- k 1926-2010
- & Evolutionary biologist
- & Wrote The Dawn of Darwinian Medicine

- № 1960: wrote about the evolutionary principles of selfinterest
- ☼ One of the first to use the phrase Darwinian Medicine as a synonym for Evolutionary Medicine

George Williams

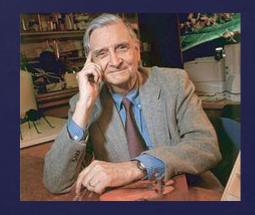


- k 1936-2000
- ₩ Work on gene-centric evolution
- № 1964 theory on Kin Selection explained the evolutionary basis for altruistic behaviour 1960s argued that group selection would be an extremely weak evolutionary force

William D Hamilton

- k b. 1929
- & Biologist
- Expert on ants- research on social behaviour
 which is then applied to humans
- & Ethological sociobiology
- Represented Argues that the human mind is shaped as much by genetic inheritance as by culture
- Sociobiology claimed to represent a synthesis of ethology, population and cellular biology, neurophysiology, behavioural ecology and comparative psychology.

E O Wilson



- № 1967 : *The Dominance of Hierarchy and the Evolution of Mental Illness* in the Lancet
- ♦ One of the key works in the development of evolutionary theory in psychiatry.
- Mental disorders including schizophrenia and depression were adaptive mechanisms that helped our ancestors cope with group hierarchies

Jonathan Price

Nazism

- Forced sterilisation of people viewed as mentally and physically unfit in 1930s and 1940s
- Estimated 4000,000 people between 1934 and 1937

Britain

- Many prominent members pre-WWI including Winston Churchill
- Deficiency Act proposed the mass segregation of the "feeble minded" from the rest of society

Eugenics





- Increasing unacceptability of eugenics in the 2nd half of the 20th century led to the stigmatisation and rejection of any scientific movement that had the appearance of promoting or resurrecting eugenic ideas including Evolutionary Psychiatry.
- & Creationists blame Darwin's theories on the rise of eugenics and the evils associated with it

Eugenicists and Evolutionary Psychiatry

Factionalisation of Mental Health

- Respective Respectives in the middle of the century criticised as lacking scientific rigour and linked back to the eugenics movement.

Psychoanalysis vs Biological Psychiatry

- First clinicians in the children's department conceived of the treatments within an evolutionary framework with a particular focus on instinct theory
- № By the end of the 1920s the focus shifted towards the classification of disorders.
- Psychoanalysis began to be used on younger children and was simplified. Therapy began to centre round the idea of learned behaviour rather than instinct and social psychiatry began to dominate.
- As a result increasingly less time was devoted to studying conditions as individual to the patient and to explain those conditions through evolutionary development

Maudsley Hospital

Limitation of Evidence

- Emergence of Ethology, Sociobiology and Evolutionary Psychiatry from 1960s onwards
- & Criticism: sexist and racist and justified repression.
- & Attacked by both creationists and scientists.
- Many of its most fervent critics came from the realms of the social scientists: hostile to the incorporation of biological thinking into their work
- Ethical controversies associated with the use of evolutionary theory in the understanding of human behaviour such as the Refrigerator Mother

Ethical controversies and Sociobiology

- Lady Ashley: on the subject of humans being descended from apes: "Let's hope it's not true; but if it is true, let's hope that it does not become widely known."
- ₩WII highlighted the need for social control and antipsychiatry, in contrast, promoted self-discovery.
- & Szasz linked psychiatric abuses to its role in social psychiatry.
- In 1965 Jurgen Ruesch based a rationale for social psychiatry on evolutionary principles but this helped to contribute to psychiatry's negative reputation and led to the rejection of evolutionary theory as a tool to understand psychiatric disorders.
- In the 1970s questions were being raised about the value of treating behaviours perceived as disorders

Anti-Evolution and Anti-Psychiatry

https://sites.google.com/site/hrbsheftel/home/evol utionary-psychiatry

Any Questions?