



Confidence in Science Sir John Burn

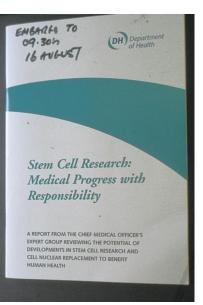
MD FRCP FRCPE FRCPCH FRCOG FMedSci
Professor of Clinical Genetics, Newcastle University
Non-Executive Director, NHS England
Chairman, QuantumDx group

World Science Forum
Budapest
5th November 2015



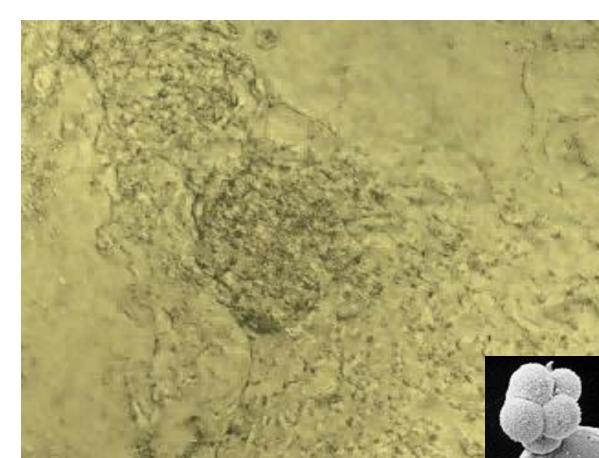


Spontaneous differentiation of human stem cells into cardiomyocytes Courtesy of Prof Miodrag Stoikovich





S Korea cloning pioneer disgraced 24/11/05

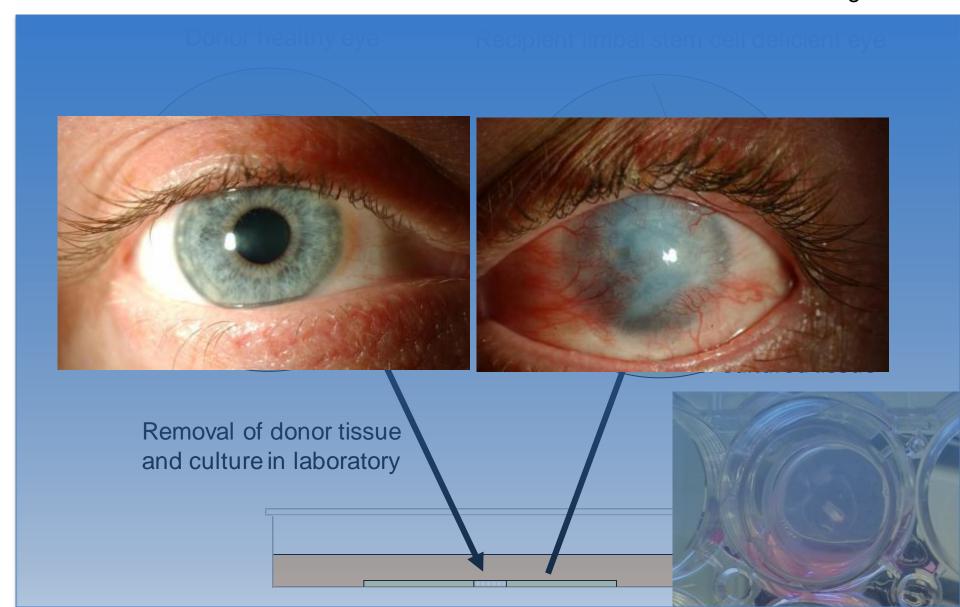


Can a cell have a soul?

Burn J, British Medical Journal 2008;336:1132

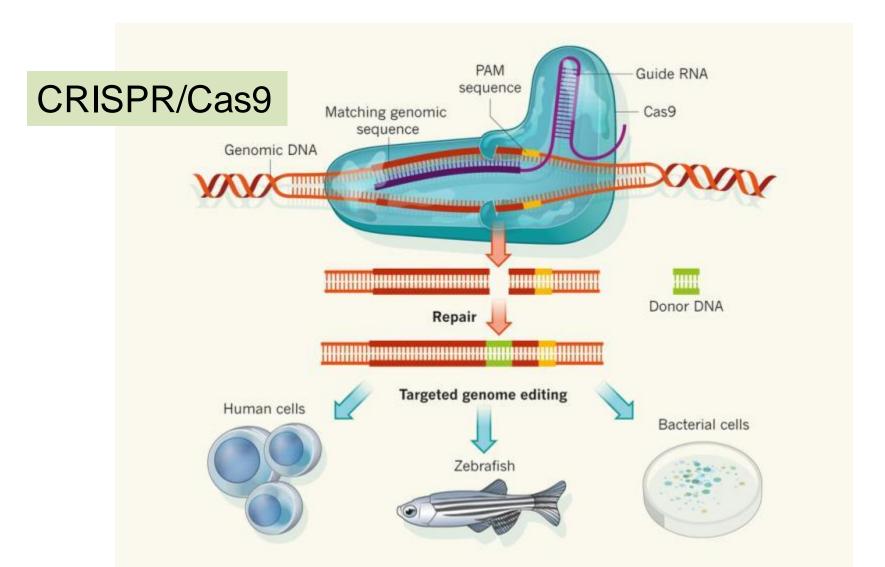
GMP Cultured limbal grafts

Courtesy of Dr Saj Ahmad Professor Majlinda Lako Mr Francisco Figueiredo

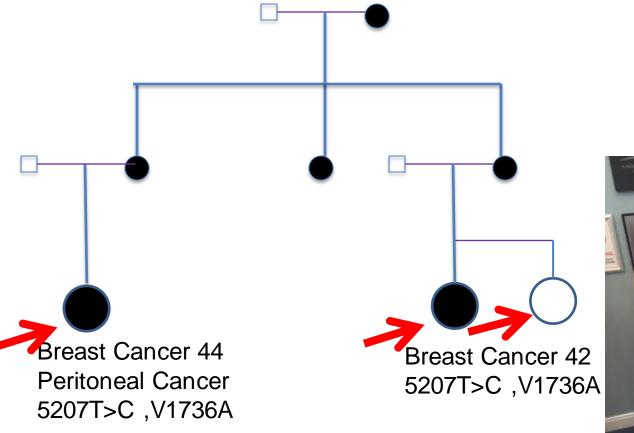


Emmanuelle Charpentier & Jennifer Doudna Biotechnology: Rewriting a genome

Nature 2013: 495,:50-51



A missense mutation exchanges alanine for valine at position 1736 in BRCA1









Jou wêreld, Jou koerant ..

Woensdag 15 Mei 2013 R7.50

Ekstra bylae oor jagbedryf Binne

Eugene de Kock moet weer wag 2 Aussie-l Cheeta



Human Genomics Strategy Group



- Government response
 - 100,000 whole genomes
 - £300 million investment



Functional classification of JDW SNIPs

SNP Type

Missense

Nonsense

Synonymous



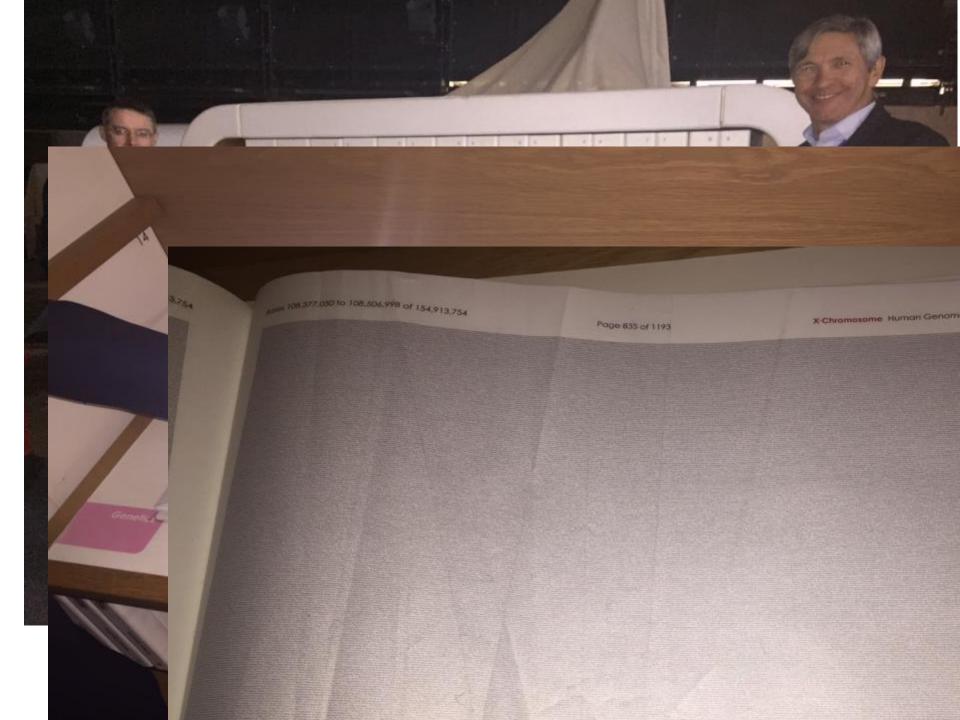
Novel SNPs

2421

7102

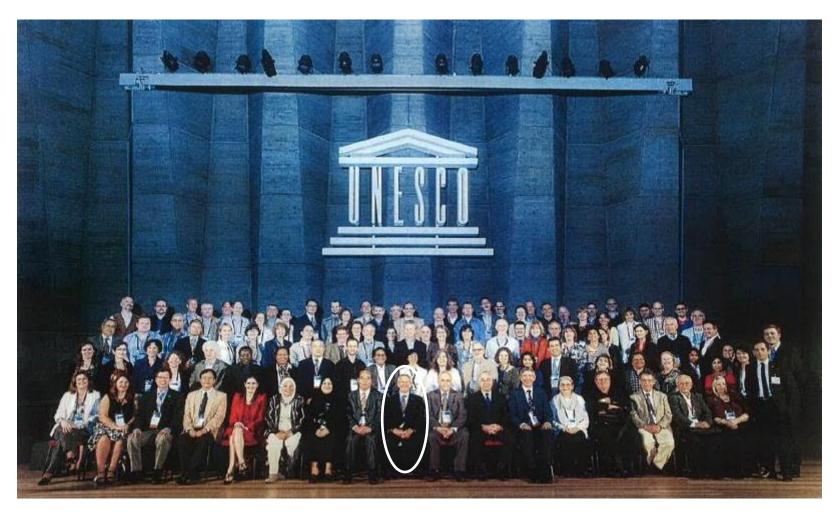
381924

2261



BRCA Challenge meeting UNESCO June 12-13th 2015





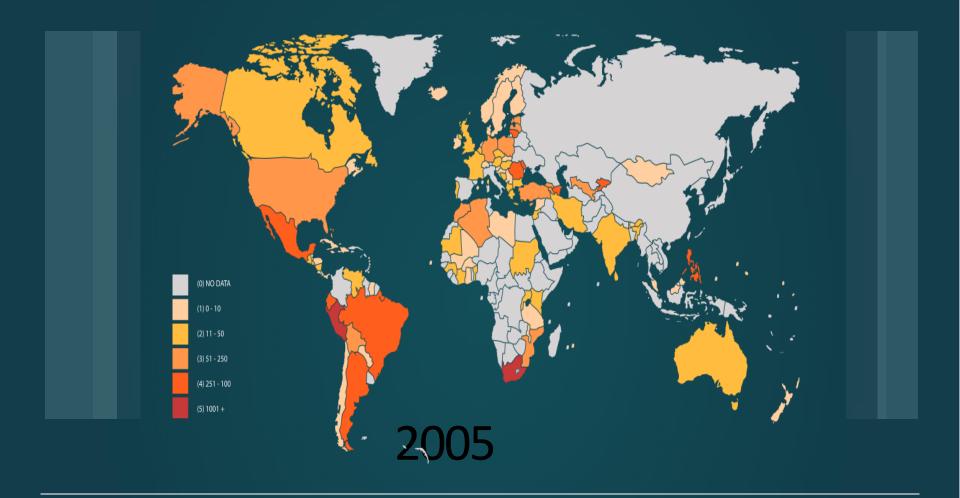
HVP4, UNESCO, Paris, 11-15 June 2012 Chaired by Professor Dick Cotton



Expansion of bone marrow spaces to correct haemolytic anaemia

Human Variome Project Global Globin Challenge 2020

Sickle Cell Disease Homozygous for a missense mutation



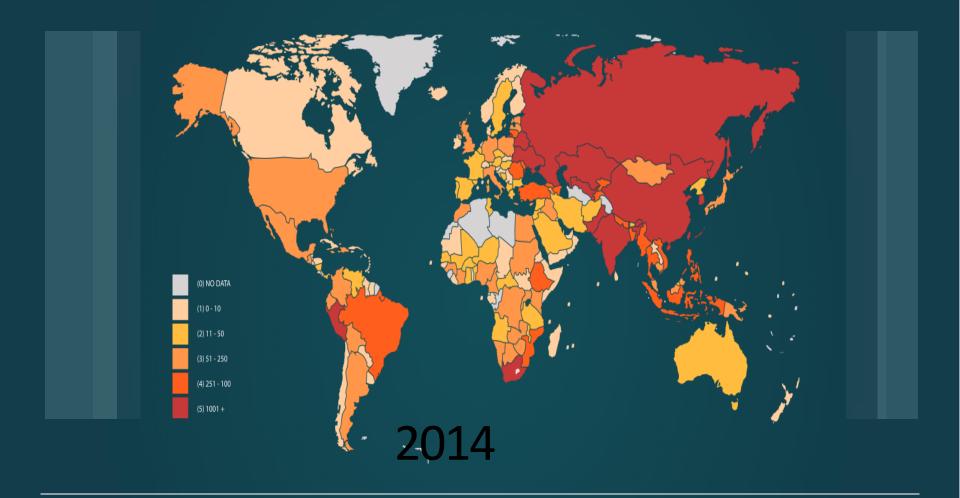
QuantuMD_{\$}

Drug Resistance: MDR TB

02. Technology Problem

The Future of Diagnostics





QuantuMD_{\$}

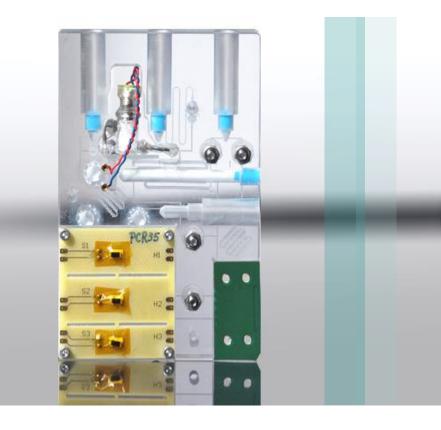
Drug Resistance: MDR TB

02. Technology Problem

The Future of Diagnostics









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