The Public Place in Personal Genomics



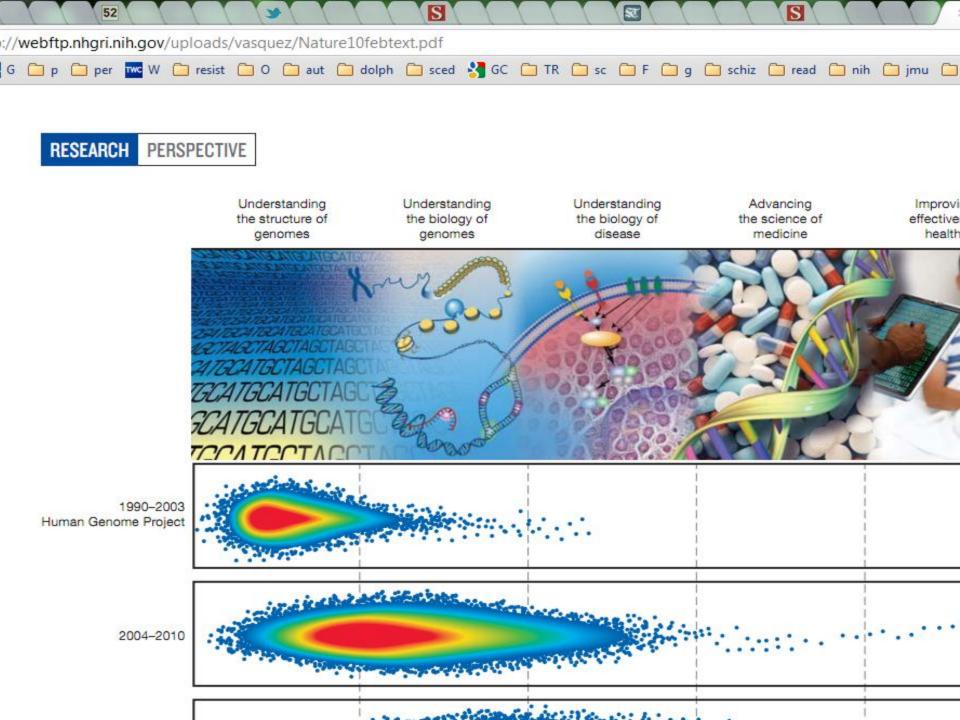
M.D.'s, Ph.D's, M.D. Ph.D.'s & me

- Confirmed speakers for the event include:
- Bradley Bernstein, M.D., Ph.D.
- Richard Lifton, M.D., Ph.D.
- Lynda Chin, M.D.
- Daniel Kastner, M.D., Ph.D.
- Francis Collins, M.D., Ph.D.
- Amy McGuire, J.D., Ph.D.
- Sean Eddy, Ph.D.
- Maynard Olson, Ph.D.
- Amy Harmon
- David Page, M.D.

- A Decade Later, Genetic Map Yields Few New Cures
- By <u>NICHOLAS WADE</u>
- Published: June 12, 2010
- Ten years after President Bill Clinton announced that the first draft of the human genome was complete, medicine has yet to see any large part of the promised benefits.
- The Genome at 10
- First of Two Articles
- For biologists, the genome has yielded one insightful surprise after another. But the primary goal of the \$3 billion Human Genome Project — to ferret out the genetic roots of common diseases like <u>cancer</u> and <u>Alzheimer's</u>and then generate treatments — remains largely elusive. Indeed, after 10 years of effort, geneticists are almost back to square one in knowing where to look for the roots of common disease.
- One sign of the genome's limited use for medicine so far was a recent test of genetic predictions for heart disease. A medical team led by Nina P. Paynter of Brigham and Women's Hospital in Boston collected 101 genetic variants that had been statistically linked to heart disease in various genome-scanning studies. But the variants turned out to have no value in forecasting disease among 19,000 women who had been followed for 12 years.

ELSI





"Community Perspectives"

- Do scientists and the public live in different communities?
- You talk about the scientific community coming together around the Human Genome Project Can we merge?

THE DNA AGE After DNA Diagnosis: 'Hello, 16p11.2. Are You Just Like Me?'

E



Samantha Napier, 14, left, and Taygen Lane, 4, share a rare genetic mutation.

Why bother??

THE DNA AGE After DNA Diagnosis: 'Hello, 16p11.2. Are You Just Like Me?'

E



Samantha Napier, 14, left, and Taygen Lane, 4, share a rare genetic mutation.

Katharine Moser – tested positive for Huntington's gene mutation



People take genomics personally

- Americans' Concern about the Privacy of Their Genetic
- Information Reaches New High
- Cambridge, Mass., January 10, 2011 A report just released by Cogent Research, in
- partnership with CAHG, reveals that Americans are more concerned than ever about
- the privacy of their genetic information. Furthermore, this concern is increasingly
- inhibiting the likelihood that they will consider having a molecular diagnostic test.
- These and other findings are explored in more detail in the 5th
- edition of the Cogent
- Genomics, Attitudes & Trends study (CGAT[™] 2010).
- The CGAT[™] study, based on a nationally representative survey of 1,000 Americans,
- reveals that the proportion of Americans who are concerned about how their genetic
- information would be stored and who would have access to that information, has
- climbed from 65% in 2006 to an all-time high of 71% in 2010.

Carletta Tilousi, Havasupai Tribe



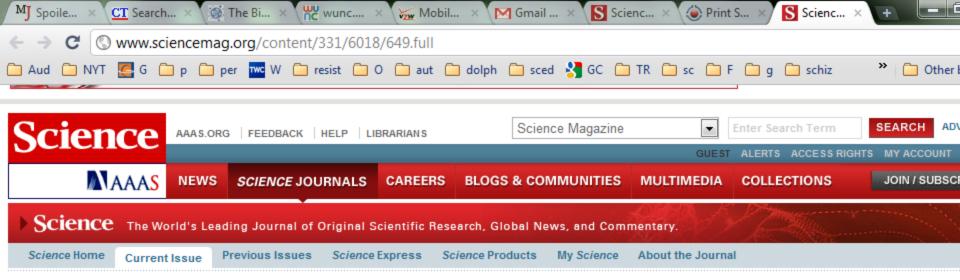
"Help!!! The Gov't Has My DNA"



Who, what why when & how?

"Conducting public outreach.

Education programmes are needed to promote lifelong public understanding and awareness of the role of genomics in human health and other areas."



Home > Science Magazine > 11 February 2011 > Hanson, et al., 331 (6018): 649

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EDITORIAL:	NEED HELP?
Making Data Maximally Available Hanson, et al.	 <u>Regain access to a Pay-per-view article</u> >
Science 11 February 2011: 649.	 <u>Can't get past this page?</u> >
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Kerri Adams: BRAF-positive melanoma



Randy Williams



Mark Bunting



B-RAF resistance paper in Nature

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-		doi:10.1038/nature09626
	Melanomas acquire resistance to B-RAF(inhibition by RTK or N-RAS upregulation Ramin Nazarian ^{1,2} *, Hubing Shi ^{1,2} *, Qi Wang ^{1,2} , Xiangju Kong ^{1,2} , Richard C. Koya ^{2,3} , Hane Lee ^{2,4} , Zuger Narsis Attar ^{2,5} , Hooman Sazegar ^{2,5} , Thinle Chodon ^{2,5} , Stanley F. Nelson ^{2,4,6} , Grant McArthur ⁷ , Jeffrey Antoni Ribas ^{2,3,5} & Roger S. Lo ^{1,2}	,
e	Activating B-RAF(V600E) (also known as BRAF) kinase mutations occur in ~7% of human malignancies and ~60% of melanomas ¹ . Early clinical experience with a novel class I RAF-selective inhibitor, PLX4032, demonstrated an unprecedented 80% anti-tumour res- ponse rate among patients with B-RAF(V600E)-positive melano- mas, but acquired drug resistance frequently develops after initial responses ² . Hypotheses for mechanisms of acquired resistance to B-RAF inhibition include secondary mutations in <i>B-RAF(V600E)</i> , the secondary <i>B-RAF(V600E)</i> mutation was contained by the secondary mutations in <i>B-RAF(V600E)</i> , the secondary <i>B-RAF(V600E)</i> mutation was contained by the secondary mutations in <i>B-RAF(V600E)</i> , the secondary <i>B-RAF(V600E)</i> mutation was contained by the secondary mutations in <i>B-RAF(V600E)</i> , the secondary <i>B-RAF(V600E)</i> mutation was contained by the secondary <i>B-RAF(V600E)</i> , the secondary <i>B-RAF(V600E)</i> mutation was contained by the secondary <i>B-RAF(V600E)</i> , with the secondary <i>B-RAF(V600E)</i> mutation was contained by the secondary <i>B-RAF(V600E)</i> , where <i>B-RAF(V600E)</i> mutation <i>B-RAF(V600E)</i> , where <i>B-RAF(V600E)</i> , where <i>B-RAF(V600E)</i> mutation <i>B-RAF(V600E)</i> , where <i>B-RAF(V600E)</i> mutation <i>B-RAF(V600E)</i> , where <i>B-RAF(V600E)</i> mutation <i>B-RAF(V600E)</i> , where <i>B-RA</i>	ncing of all 18 <i>B-RAF</i> exons in and R2), and one M249 R (R4) tary Table 1 and Supplemen- nger sequencing, this lack of ong with retention of the ori- nfirmed in 16/16 melanoma
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