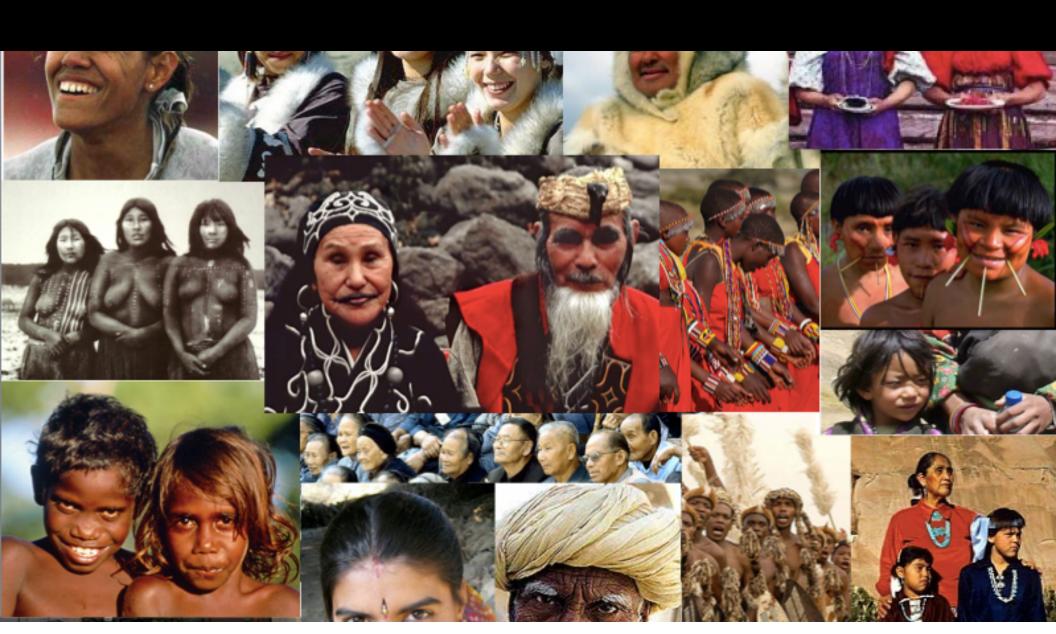
SOC 3510; WEEK 10, 10/27/16

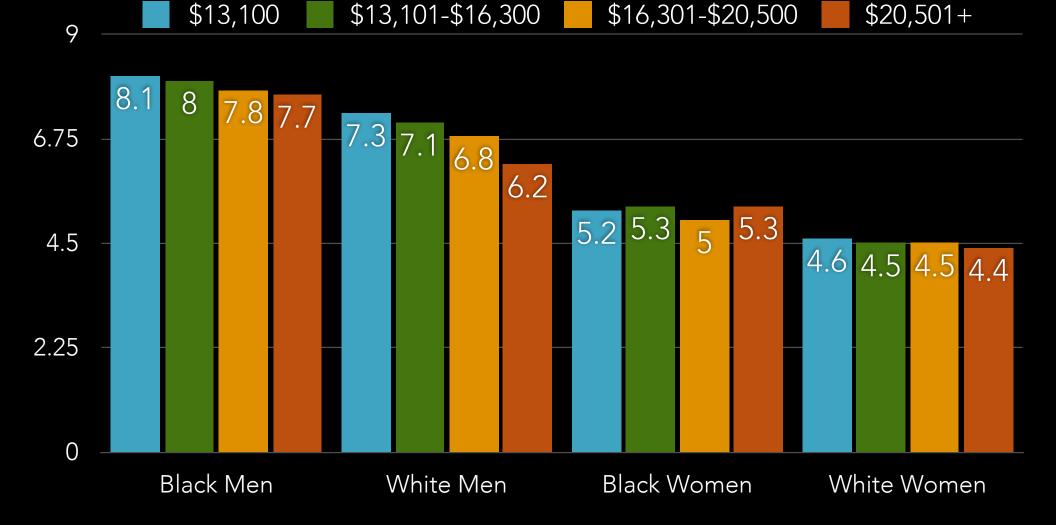
RACE/ETHNICITY AND HEALTH II

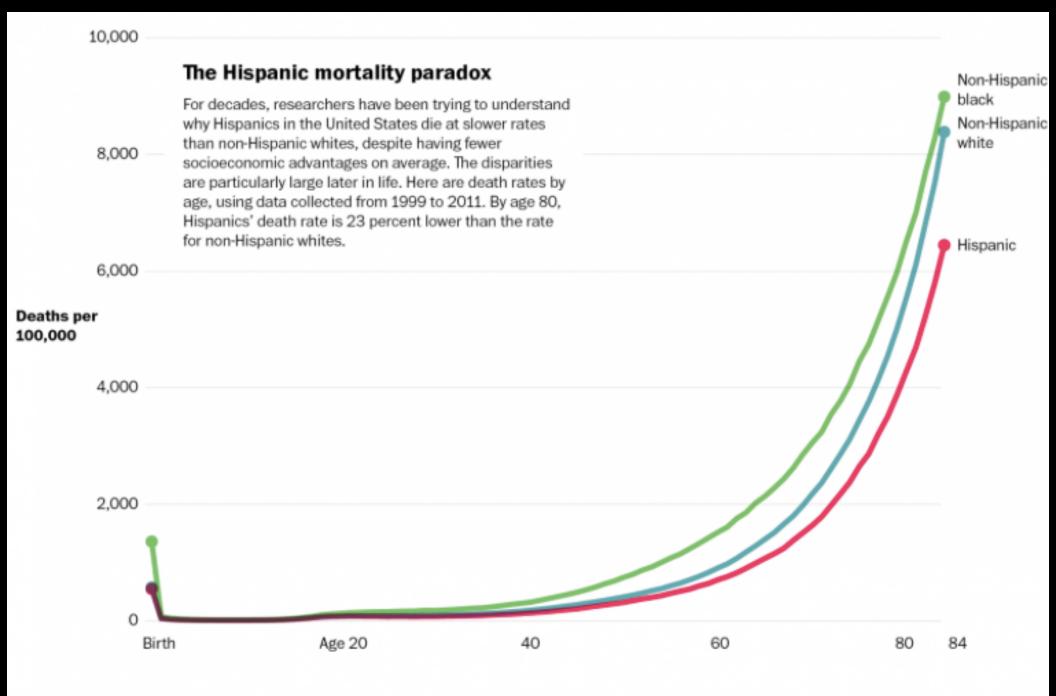


SES EXPLAINS PART OF THE RACIAL HEALTH GAP

BUT NOT ALL (FARMER AND FERRARO 2005; GORNICK ET AL. 1996; LOUIE AND WARD 2011; SCHOENBAUM AND WAIDMANN 1997;....)

DEATH RATES AMONG MEDICARE BENEFICIARIES (GORNICK ET AL. 1996)

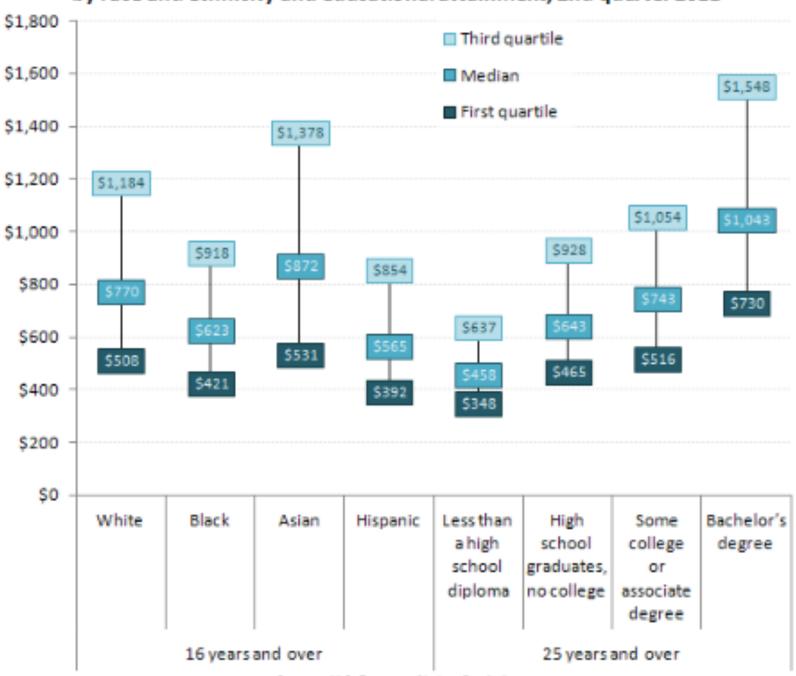




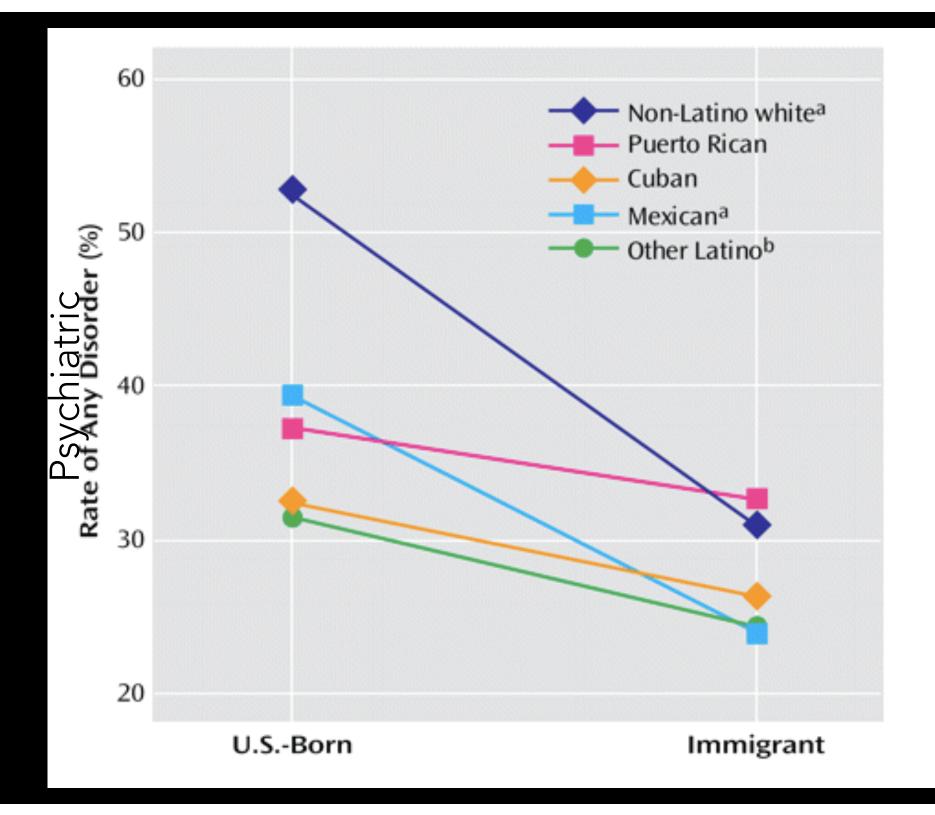
HISPANIC/LATINO HEALTH PARADOX

- Hispanic/Latino immigrants have better health outcomes despite lower SES backgrounds
 - Deaths not undercounted either by checking death certificates (Arias et al. 2010) and looking at the mortality rate in longitudinal medical studies (Daviglus et al. 2012)

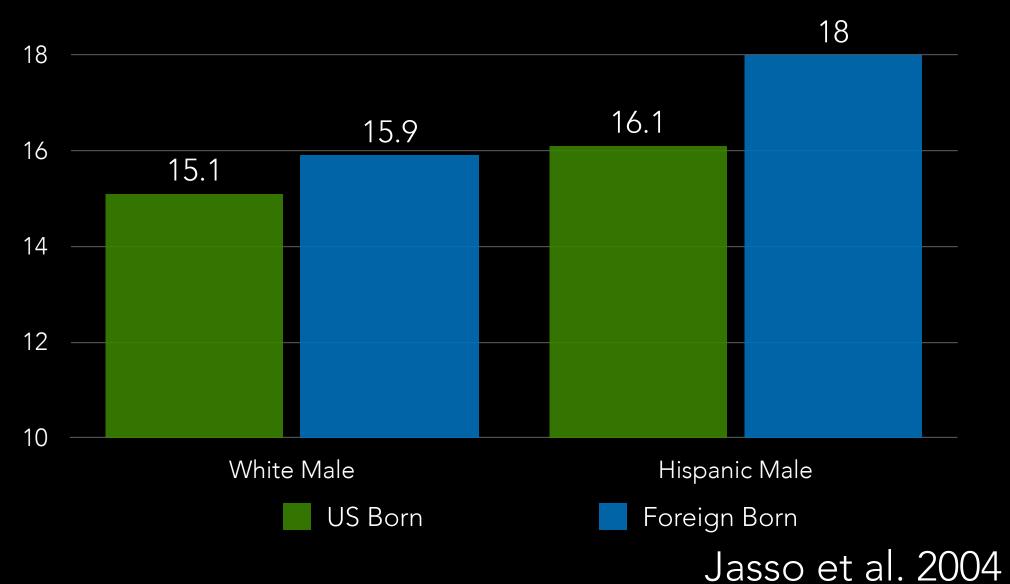
Quartiles of usual weekly earnings of full-time wage and salary workers, by race and ethnicity and educational attainment, 2nd quarter 2011



Source: U.S. Bureau of Labor Statistics



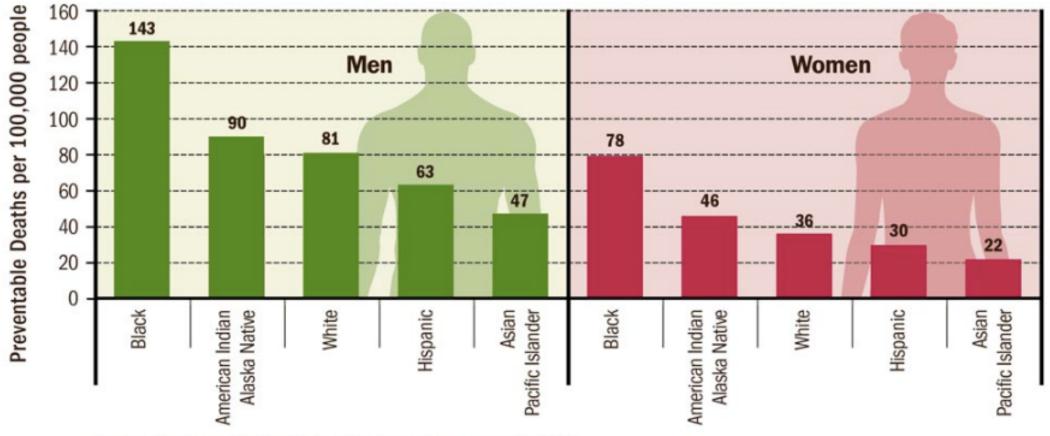
LIFE EXPECTANCIES BY AGE 65



HISPANIC/LATINO HEALTH PARADOX

- Hispanic/Latino immigrants tend to have better health outcomes despite lower SES backgrounds
 - Why?
 - Cultural factors
 - Healthy immigrant selection
 - Salmon hypothesis (unhealthy remigration)

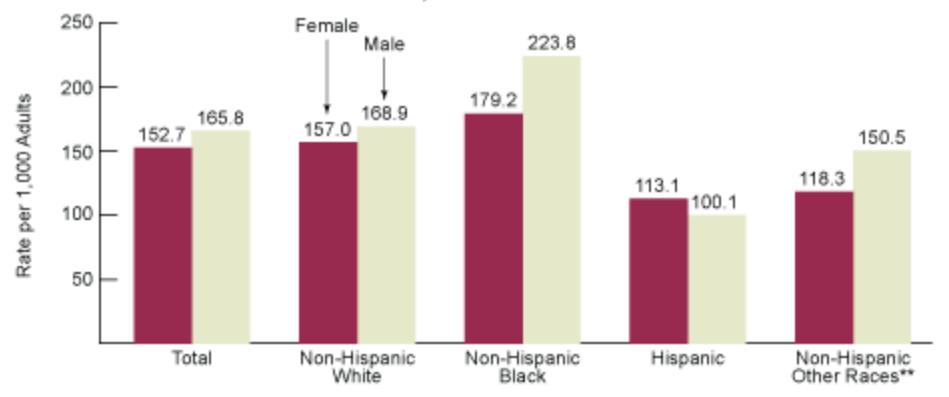
Black men are at highest risk of dying early from heart disease and stroke



SOURCE: National Vital Statistics System, US Census Bureau, 2010.

Adults Aged 18 and Older with Hypertension,* by Race/Ethnicity and Sex, 2005–2006

Source: Centers for Disease Control and Prevention, National Center for Health Statistics, National Health and Nutrition Examination Survey

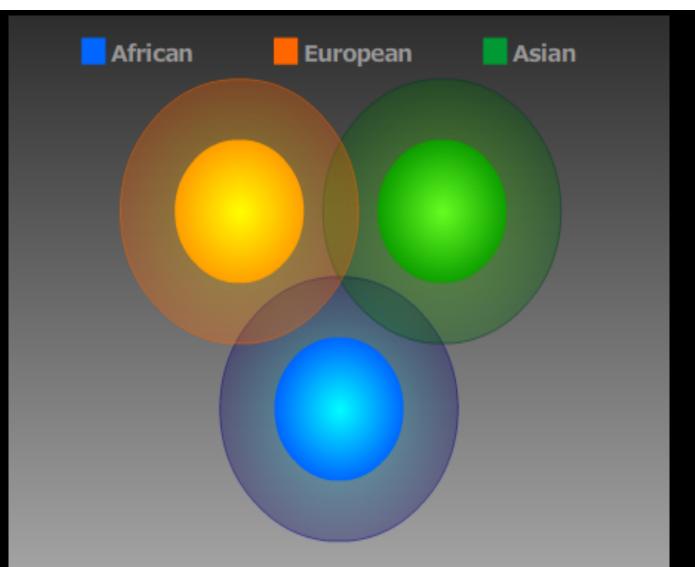


^{*}At the time of examination had a systolic pressure (during heartbeats) of 140 or higher, and/or a diastolic pressure (between heartbeats) of 90 or higher. Rates are not age-adjusted. **Includes Asian/Pacific Islander, American Indian/Alaska Native, persons of more than one race, and persons of other races not specified.

WHEN EXAMINING RACIAL DISPARITIES IN HEALTH, WHAT ARE THE REMAINING BIG FACTORS THAT EXPLAIN THE SUBSTANTIAL DISPARITIES EVEN WHEN THE EFFECT OF SES, ACCESS TO HEALTH CARE, AND HEALTH BEHAVIORS ARE ELIMINATED?

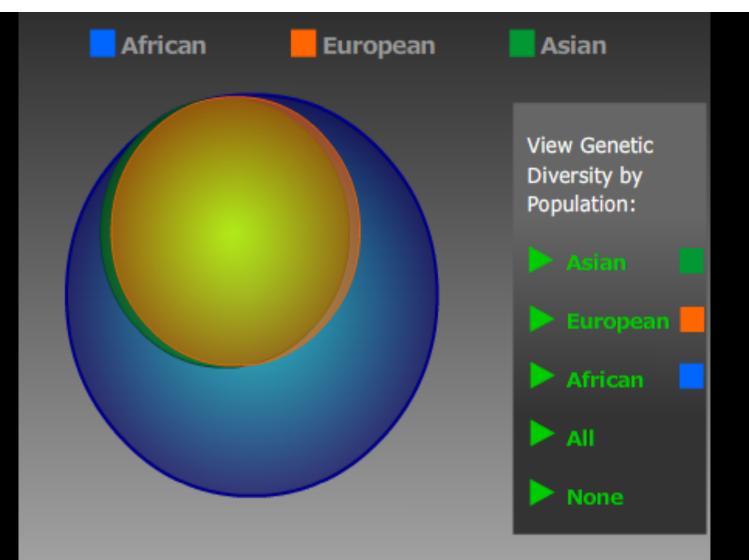
GENETIC VARIATION, CLASSIFICATION AND 'RACE' (JORDE AND WOODING 2004)

- Genetic variation between a randomly selected pair of humans is about 1 in 1,000 nucleotides (0.1% genetic variation among individuals)
- The genetic difference between 2 random people from 2 different geographical regions (e.g., continents) would be about 5-15% greater than those from the same region
 - So variation divides roughly geographically...
 - But this also depends depends on how many geographical clusters you tell the computer program to generate



The Essentialist Concept, an Abstract Interpretation

In this view, the human species is divided into races defined by anatomical features; individual variations and mixtures between races (shown here by the overlapping translucent circles) are seen as unimportant deviations from the basic pure races (shown here by the solid circles).



Actual Patterns of Diversity Based on Observed Data

The pattern of DNA variation across populations shows a nested subset. African populations harbor some alleles (gene variations) that are absent in non-African populations; however, all of the alleles that are common in non-African populations are also common in African populations.

DECONSTRUCTING THE RELATIONSHIP BETWEEN GENETICS AND RACE (BAMSHAD ET AL. 2004)



ID population*

Africans

- Biaka pygmy
- 2 Mbuti pygmy 3 Mandenka
- Yoruba
- 5 San
- 6 Bantu (Kenya)

Europeans

- 18 Mozabite
- 23 Druze

- 31 Makrani
- Sindhi
- 33 Pathan

- 65 Basque
- 66 Sardinian
- 67 Bergamo 69 Orcadian

- 71 Russian

- 22 Bedouin
- 24 Palestinian
- Balochi
- 30 Hazara

- 34 Kalash
- Burusho
- 64 French

- 70 Adygei

Asians.

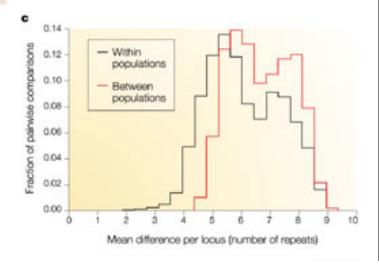
- 38 Tujia
- 39 Yizu Yi
- 40 Miaozu Miao
- Orogen
- 42 Daur
- 43 Mongola
- 44 Hezhen
- 45 Xibo
- 46 Uygur 47 Dai
- 48 Lahu
- 49 She
- 50 Naxi
- 51 Tu
- 53 Yakut
- 54 Japanese 55 Cambodian
- 59 Papuan 60 Melanesian

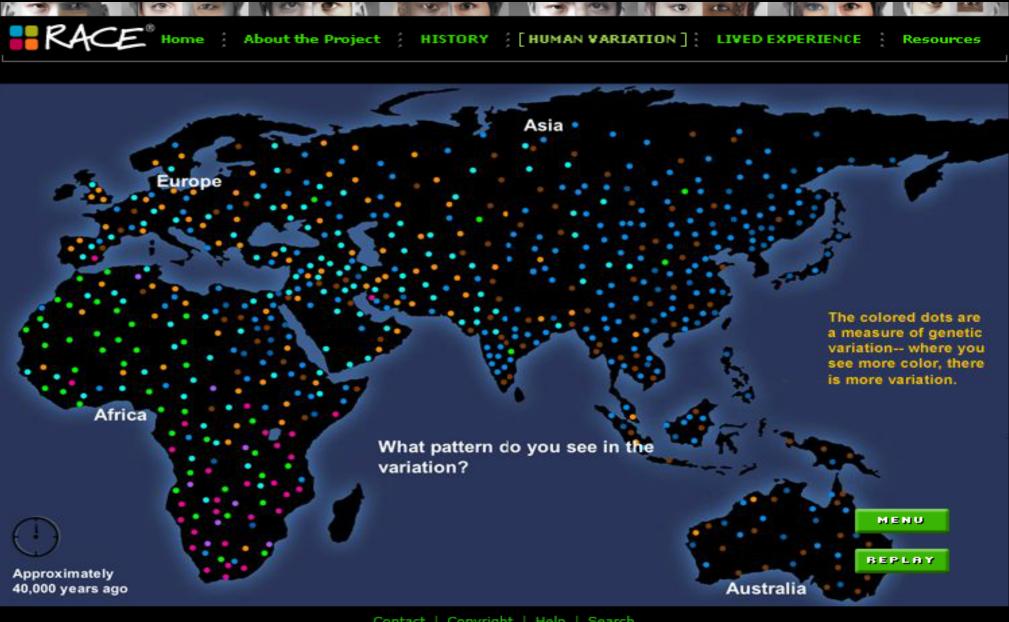
Native Americans

75	Pima
76	Maya
77	Piapoco
78	Karitiana

79 Surui

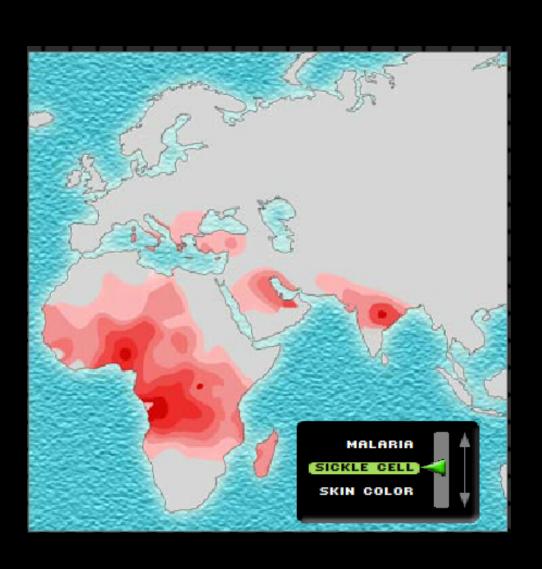
	Africans	Europeans	Asians
Europeans	0.635		
Asians	0.645	0.617	
Native Americans	0.739	0.666	0.650





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SICKLE CELL AND MALARIA INCIDENCE





"[Genetic] clustering of individuals is correlated with geographic origin or ancestry. These clusters are also correlated with some traditional concepts of race, but the correlations are imperfect."

-JORDE AND WOODING, 2004

GENES/ENVIRONMENT EXAMPLE

- Gravalee et al. 2009: Genetic ancestry a significant predictor of systolic blood pressure among Puerto Ricans
 - But association went away when SES and socially constructed racial categories ("color") was taken into account
- Gravalee et al. 2005a; 2005b: Culturally defined racial categories stronger predictor of blood pressure than skin color (phenotypic marker)

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THE GENOMIC
REVOLUTION AND
BELIEFS ABOUT
ESSENTIAL RACIAL
DIFFERENCES

