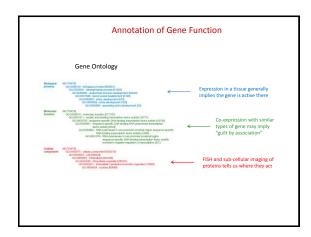
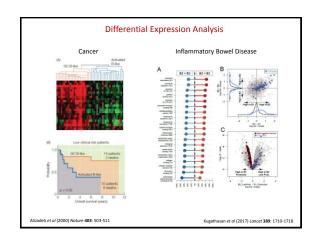


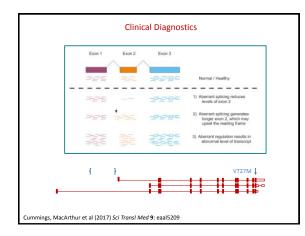
	The	Rationale for Gene Expression Profiling	
Question:	What makes a muscle cell different from a skin cell different from a liver cell?		
Analogy:	What makes a living room different from a bathroom different from the kitchen?		
Answer:	What furniture and appliances and windows re placed where and when		
	What genes are	e expressed where and when and how much	
Strategy:	Measure the abundance of mRNA transcripts in a bunch of samples, and use statistically rigorous approaches to identify differential expression		
Methods:	Prior to 1995:	One gene at a time qPCR	
	1995-2015:	Microarrays	
	Since 2015:	RNAseq	



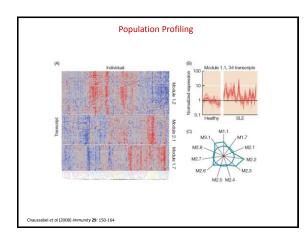




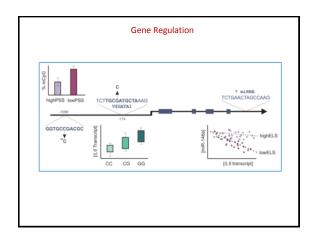




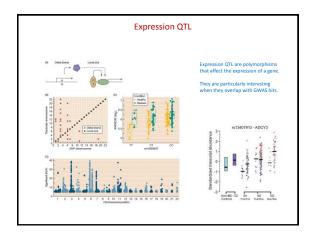




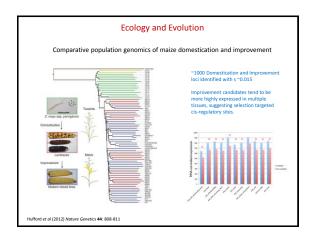


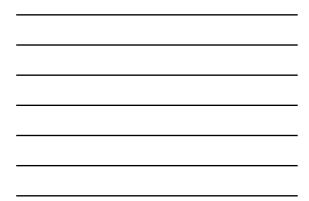


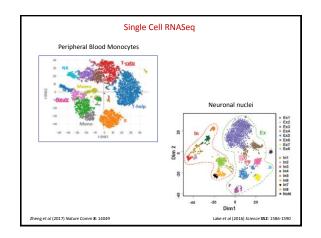




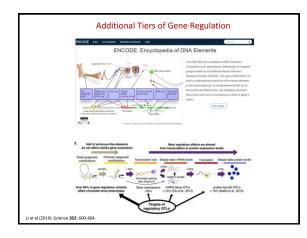




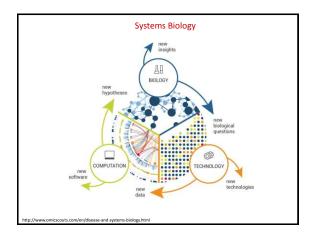




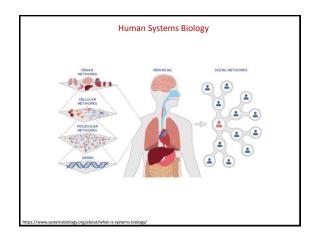














First genome sequencing success story

Diagnosed at age 5 with dopa-responsive dystonia

Worsening respiratory and neuromuscular disease not responsive to dopamine precursor therapy

WGS shows mutation in SPR "sepiapterin reductase" gene

5-HT serotonin precusor supplementation had immediate impact



The Beery twins







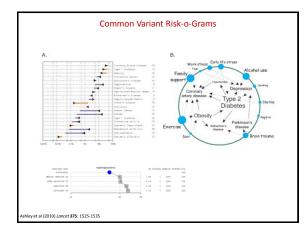
Some Pu	iblic Initiatives	
Personal Gename Project	patortillene	-
The stations are statistic being a first part of a		
Volunteers: from the general public working together with measurements to advance presenting presention. It is a set of the set of the set of the set of the set of the presention of the set of the set of the set of the set of the set of the set of the set of the presention of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set o	Live better, together!"	-
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Precision Medicine and Predictive Health

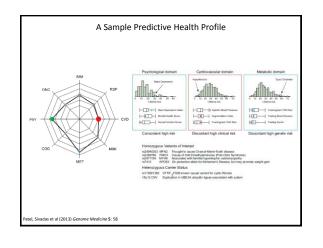
Precision Medicine is molecular pathology based on a patient's genome sequence. It is about finding the mutation or perturbed genetic pathway that is largely responsible for a congenital birth defect, or for a specific cancer.

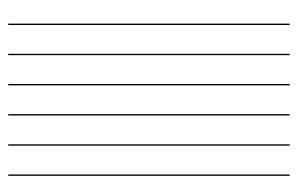
Predictive Health is about using your own clinical and genomic profile to make better decisions about wellness in an effort to prevent the onset of chronic disease.

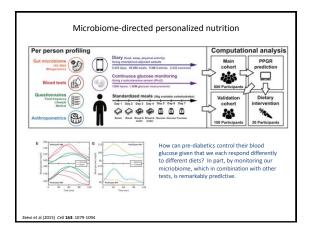
Personalized genomic medicine encompasses both, and essentially captures the idea that each person's individual genome sequence will eventually be part of their own medical care.



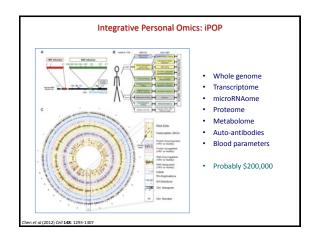


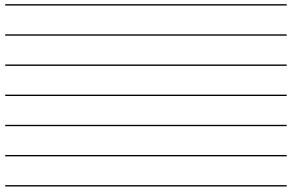












		Then why don't we all get our PGS?
1.	Cost:	\$500 for the lite version, \$3000 the whole
2.	Privacy:	What if WikiLeaks releases it to the world
		Can providers sell information to companies?
3.	Insurance:	The Genetic Non-Discrimination Act protects from workplace and health discrimination only
4.	Anxiety:	Will I learn something I don't want to know? And will there be anything I can do about it?
5.	Consent: really unde	How can I provide informed consent to something I don't rstand? Can I trust my doctor to help me decide?