

Gaps in Nutritional Research

Food & Health Deep Dive Series Wednesday, October 14th, 2020

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Executive Summary

The world of nutrition is confusing to navigate at best. We know intuited healthier for us, but much of nutrition has yet to be understood. And are spent delivering treatment to Americans with chronic, often diet-rediabetes and obesity representing ~70% of US healthcare costs. Food health.

Though we don't know everything there is to know about nutrition, or understand it has evolved. For most of the 1900s, and even still to a confocused on single nutrients and their potential role in health and disease certain foods, refined sugars for example, that should be avoided if pomore deeply understand the complexities underlying what we should influenced.

Whether it is food components yet to be characterized, the interaction genetics, our environment, or our lifestyle, we are only beginning to the food & nutrition work for us.



A Thank You to Our Guests



Dr. Bruce GermanProfessor - Food Science / Chemistry
UC Davis



Jim Howard CEO Readout Health



Dr. Rok Professo



University San Fran





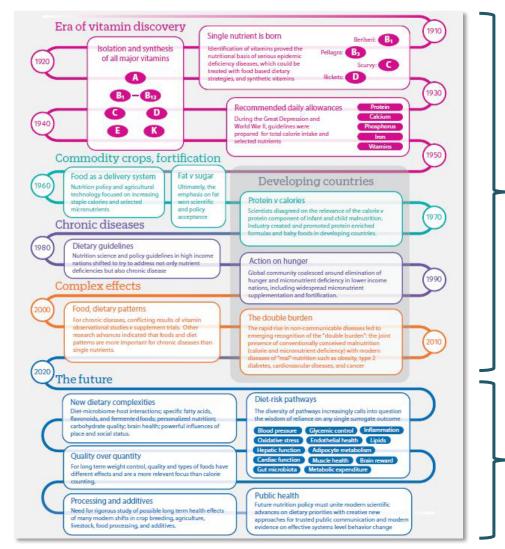




Gaps in Nutritional Resea

Definitions & Trends

A Brief History Of Nutrition Science



- Discovery
- Developm
- Characteriala focus on
- Focus on i keys to so
- Fat charace malnutrition diets enco
- A new form form of "over the sity &
- Charactering human he
- Focused of opposed to



So what do we actually know?

"Eat food, not too much, mostly plants." - Michael Pollan,



Exercise is good

People who regularly exercise have up to a 35% lower risk of coronary heart disease and stroke, 50% lower risk of type 2 diabetes and 50% lower risk of colon cancer. - NHS





Eat your fruits and vegetables

It is now understood that diets low in plants are actually 3X more deadly than diets high in unhealthy foods – EAT Lancet Commission





There are good fats

Avocados are high in monounsaturated oleic acid, a heart-healthy fatty acid that is believed to be one of the main reasons for the health benefits of olive oil. - Healthline





Frameworks for Gaps in Nutrition



Food Components & Form

What's in our food & how has it been processed?



Foods in Context

What happens when we eat foods together or at different time







Stage of Life

How does food affect us at different stages of





Comorbidities

How does food affect me





Individu How doe



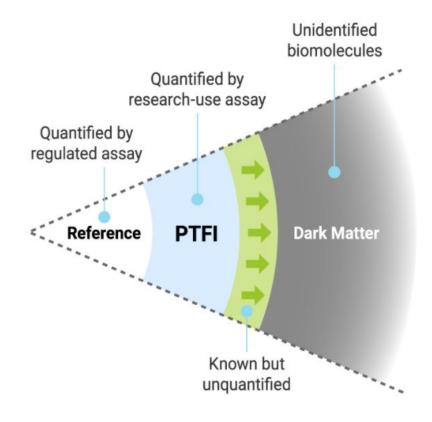
The Future of Nutrition is Google Map





The Periodic Table of Food Initiative (F

A Periodic Table of Food





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PREDICT 1 & PREDICT 2

Summary

- Everyone is unique in food response
 even identical twins
- Genetics explains only a fraction of how we respond to foods
- The composition of the meal explains
 <30% of our responses
- How and when we eat can impact our response to food
- Dissecting the integrated, interrelated multidirectional pathways with large scale, high resolution data makes precision nutrition achievable







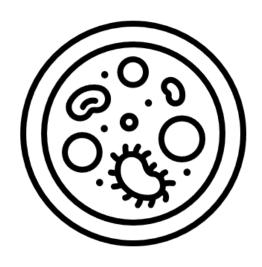
Technology Innovators

Opportunities & Challenges

Discussion: Highlighting Two Health A

Microbiome Health

Metabo







Microbiome Health

Startup Solutions

















Overview

- Carbohydrate discove
- · Potential to understa

State of the Industry

- Some individual microbes well understood ex. b. infantis
- Prebiotics beginning to be incorporated into food
- Consortia in therapeutics

The Opportunity

- Microbiome is implicated in nutrient uptake, immunology, inflammation, neurological health, etc.
- Opportunity for natural interventions



Metabolic Health

Startup Solutions

Inno













Overview

- Readout Health is a ser
- The Company's initial p

State of the Industry

- Increasingly high awareness to reduce sugar intake
- Real time tracking becoming more accessible
- New diets (ex. keto) catching on like wildfire

The Opportunity

- Learn how different people metabolize different foods differently.
- Preserve sweet foods without the consequences
- Prevent disease earlier





Thesis

Thoughts Going Forward

Thoughts & Thesis

Key Risks & Considerations Going Forward

- <u>Nutritional Genomics</u>: While our genetics impact how we metabolize role. There are too many companies focused solely on this.
- Non-clinical Grade: Devices & interventions involving nutrition don't a devices, which can turn them into simply adherence tools or worse, s

Areas of Opportunity

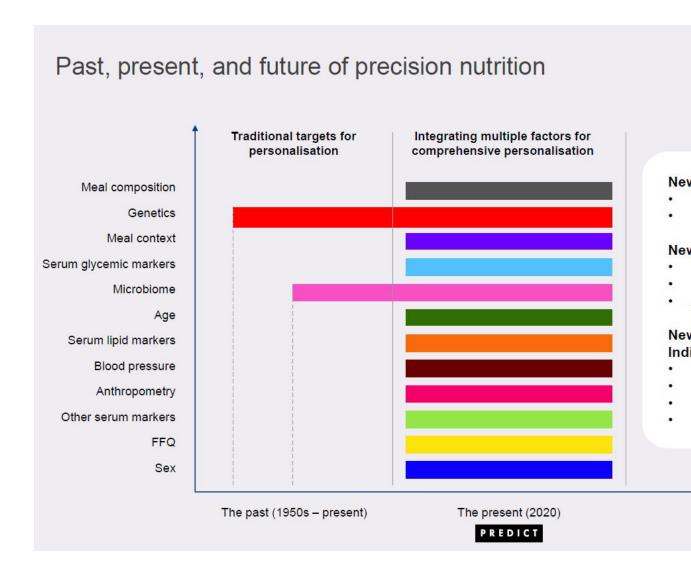
- Adherence: Adherence seems to be one of the biggest challenges to more about it. A platform combining adherence and data collection of
- Meaningful Realtime Measurement: Longitudinal data is a luxury in the ability to gather high quality data about numerous parts of a persolonger term understanding and value. Pulling all the pieces together
- <u>Functional Foods:</u> While going after specific nutrients isn't a catch-all harmful ingredients without sacrificing perceived quality

Remaining Questions

- · What is needed more: technology innovation or business model innovation
- When will we know for early products / technologies that generated n



Thoughts & Thesis





Frameworks for Solutions

- Constant measurement / easier measurement
- Applications / training / coaching for adherence
- New ingredients that make it easier to achieve health goals, reduce costs.
- Building better nutrition into the building blocks of food itself.
- Education in how to prepare foods that are healthier without compromising taste.

