

The Business of Food as Medicine *EPEMED Webinar November 16, 2011*

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- Definitions
- What's driving the growth of this field?
- Examples of products
- Background data: market size and growth rate
- Examples: food companies doing business in Food as Medicine
- Examples: food companies making venture investments in Food as Medicine

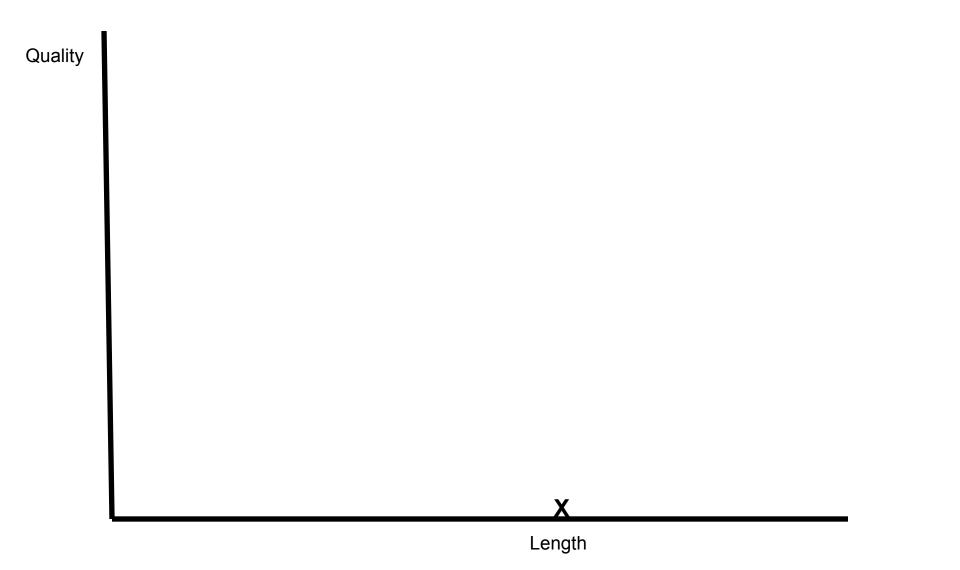


- Functional Foods provide a health benefit beyond basic nutrition
- Examples:
 - » They can enhance health & well-being (for example, assist in weight loss, reduce risk of disease)
 - » They can enhance the ability to perform physically and/or mentally (athletic performance, memory and other cognitive functions)
 - » They can help manage a chronic medical condition (diabetes, heart disease)



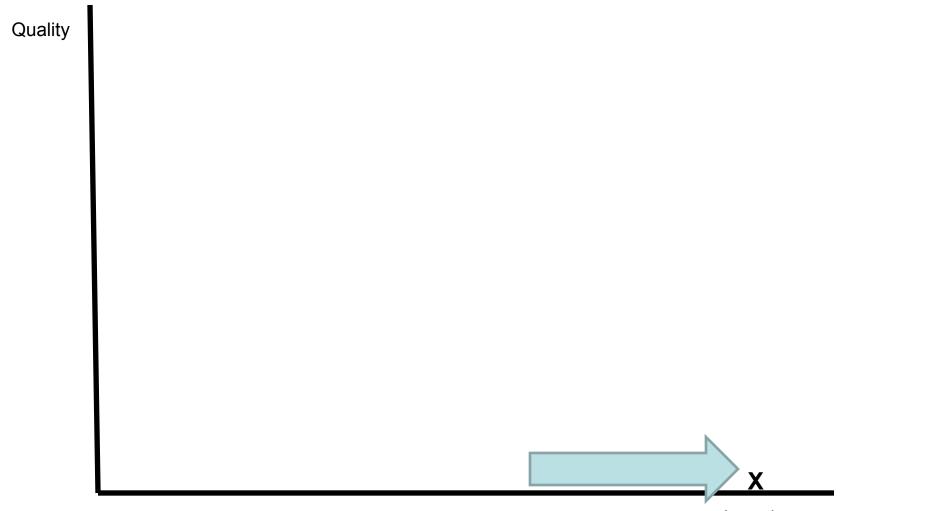
What's Driving the Growth of This Field? We used to be primarily concerned about increasing life span



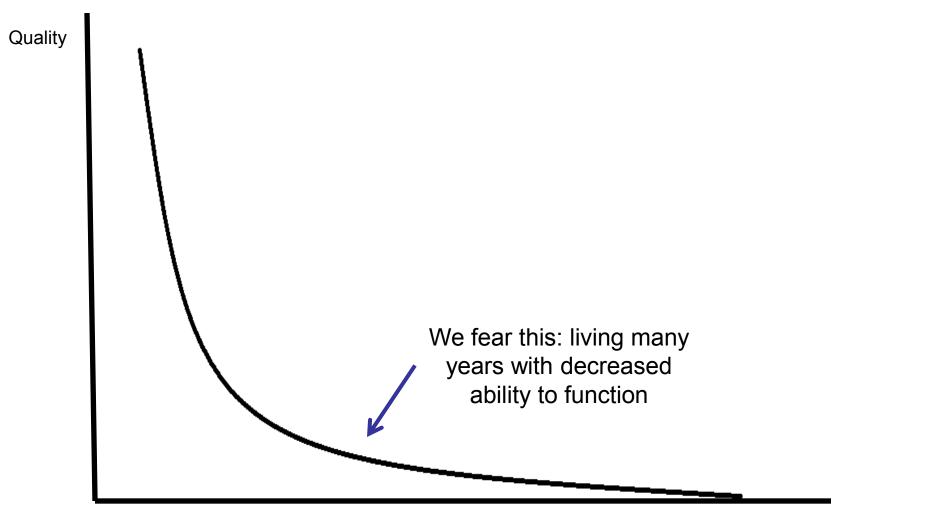


Length of Live vs. Quality of Life We used to be primarily concerned about increasing life span





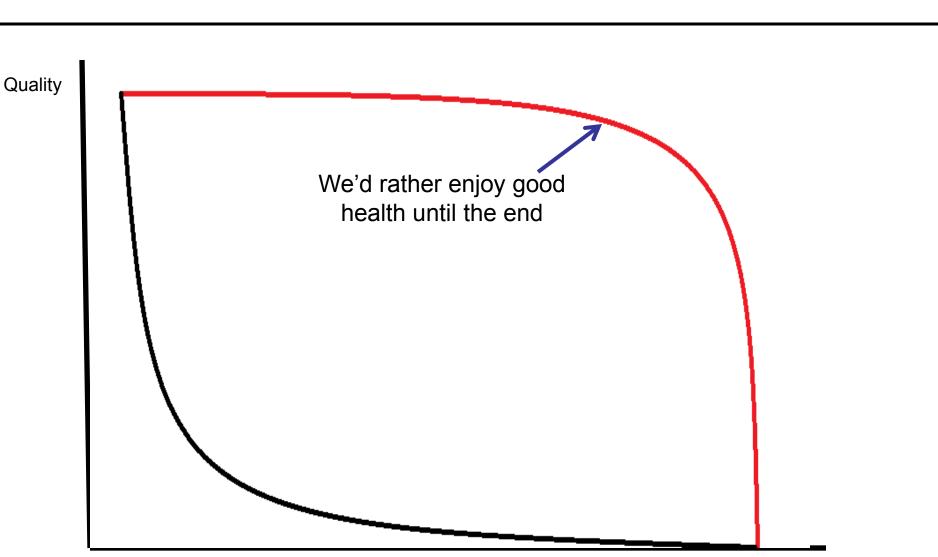
Life Span vs. Health Span Now there's growing interest in increasing health span



Length

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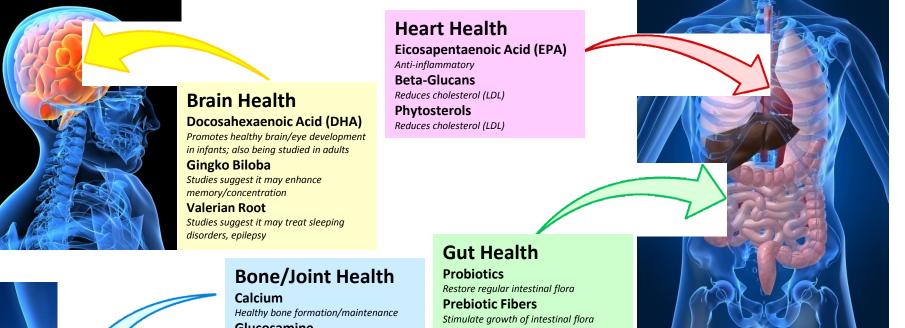






Examples of Functional Nutritional Ingredients Functional ingredients provide health benefits to vital systems of the body

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Glucosamine

Mixed data: may be helpful in cartilage strengthening or treatment of arthritis

Vitamins K & D Healthy bone formation/maintenance **Ginger Root** Anti-diarrheal

Examples of other Functional Ingredients with possible benefits

Antioxidants (resveratrol, lutein, Coenzyme Q10, etc.)

Anti-inflammatory, anti-cancer, pro-metabolic, others – all under clinical investigation Soy Protein

Reduce cholesterol; under investigation for various anti-cancer benefits

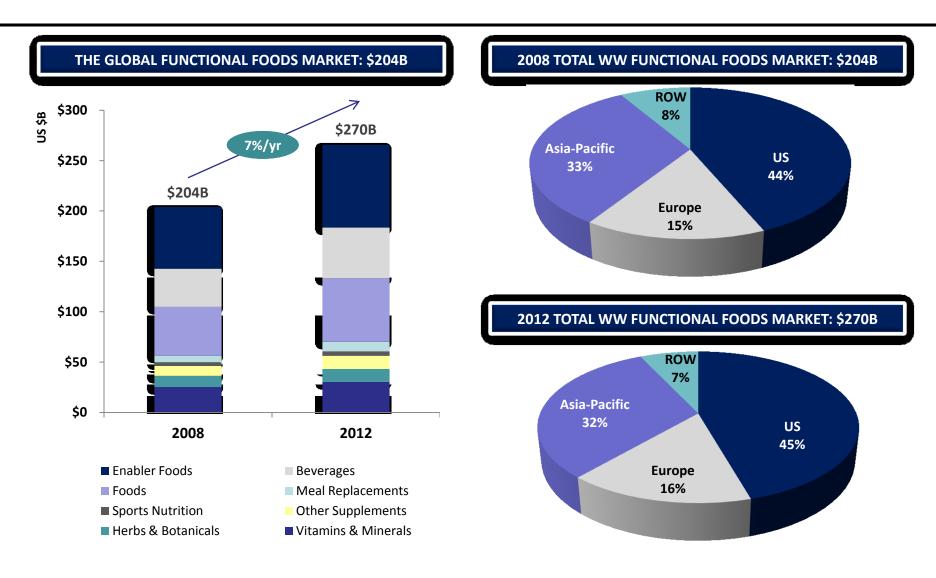
Green Tea Extract

Anti-cancer, insulin regulation, alleviating neurodegenerative disease benefits – all under clinical investigation

Worldwide Functional Foods Market

The market is growing rapidly, and is geographically dispersed





Source: Scientia Analysis, DataMonitor/Euromonitor, HighBeam IRI Data, Kalorama, Nutrition Business Journal

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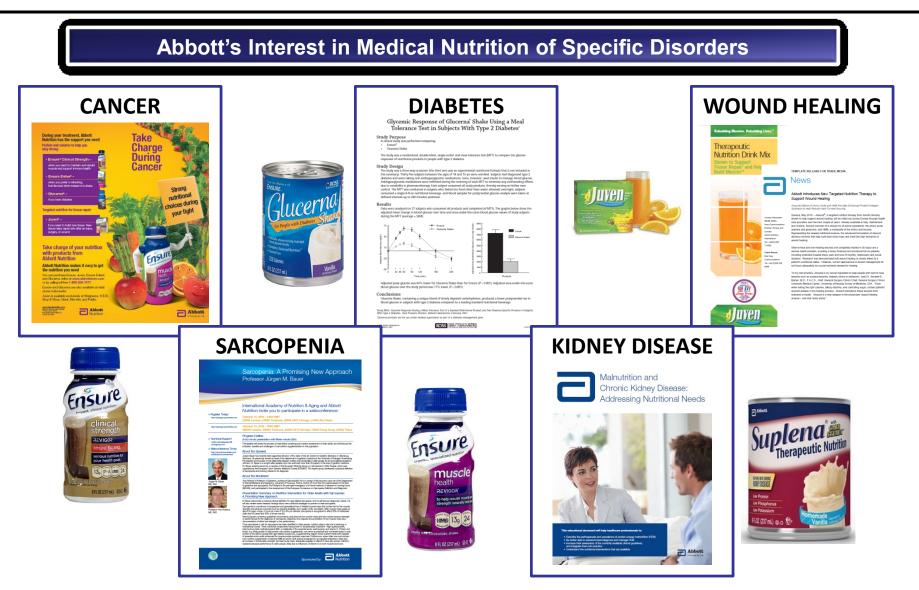
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Examples of food companies growing their business of Food as Medicine

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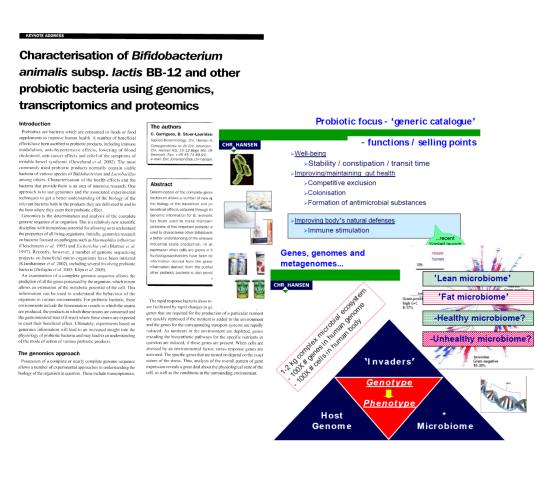




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Chr Hansen's Study of Probiotic Strains for Specific Diseases



Chr Hansen is pursuing eight indication areas:

- Intestinal balance
- Diarrhea
 - Antibiotic associated
 - Traveler's
- Constipation
- Children's well-being
- Infant health
- Immune support
- Bacterial vaginosis



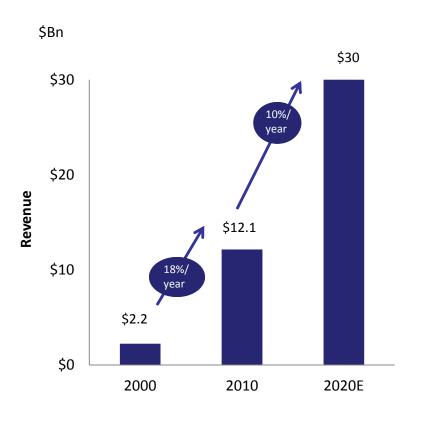


PepsiCo: Adding H&W to Its Core Business

PepsiCo has steadily increased its portfolio of healthy snacks and beverages



PEPSI'S "GOOD-FOR-YOU" PRODUCTS



Source: Scientia Analysis, company reports, press releases and public data, *Power of PepsiCo 2010*

KEY TAKEAWAYS

- PepsiCo expanded the healthy food and beverage portfolio because rising awareness of health and wellness was putting pressure on the carbonated soft drink and salty snack businesses
- Pepsi's "Good for You" products have higher margins than salty snacks and carbonated soft drinks
- PepsiCo has considerable experience in multiple retail channels for snacks and beverages → The existing distribution and marketing channels support the distribution of new healthy products



Nestle's Investment in Personalized Nutrition





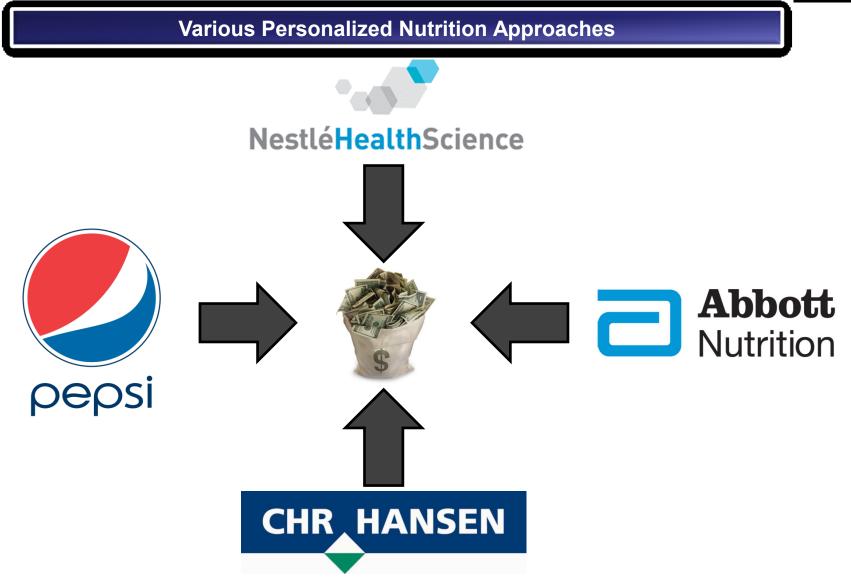


Opened in January 2011 with plans to develop personalized nutrition products for specific diseases Prometheus specializes in treatments and tests for IBS, Crohn's disease, and cancer

Nestle aims to become the world leader in health-science nutrition in 10 years

Examples of Companies Pursuing Food as Medicine From major CPG companies to ingredient manufacturers





Big Food Companies And Venture CapitalMany are now investing in H&W/nutrition focused funds



Nutrition Capital Network lists these companies as investors:



- The traditional food industry long defined their market as, "Everyone who needs to eat"
- Health & Wellness was viewed as a collection of unappealing niche markets
- But Health & Wellness is sustaining attractive growth rates
- Those niche markets are now looking increasingly attractive:
 - » Better margins
 - » Higher purchase rates per customer
- Major food companies are beginning to leverage their distribution channels and their existing brands to put Health & Wellness products on retail shelves
- Many food companies are also investing in venture funds
 primary goal: get an early look at innovation



THANK YOU!