

Fitting proteins to the mass food market



Amai: Fixing our food system, one protein at a time **Combining Computational Protein Design with Precision Fermentation**

Non-Sweet pipeline **Computational phase**

Meat



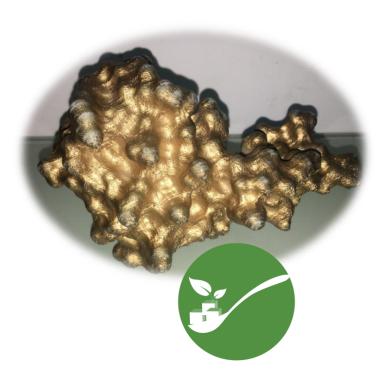


Milk





Sweet Close to market





Tasty



√ Stable (T, pH, fat)



✓ Cost-effective



✓ Digestible



√ Hypoallergenic



✓ Sustainable



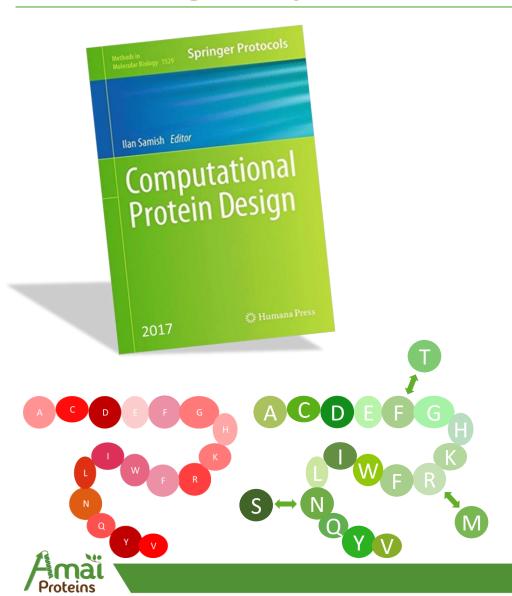
✓ Environmentallyfriendly



✓ Proprietary



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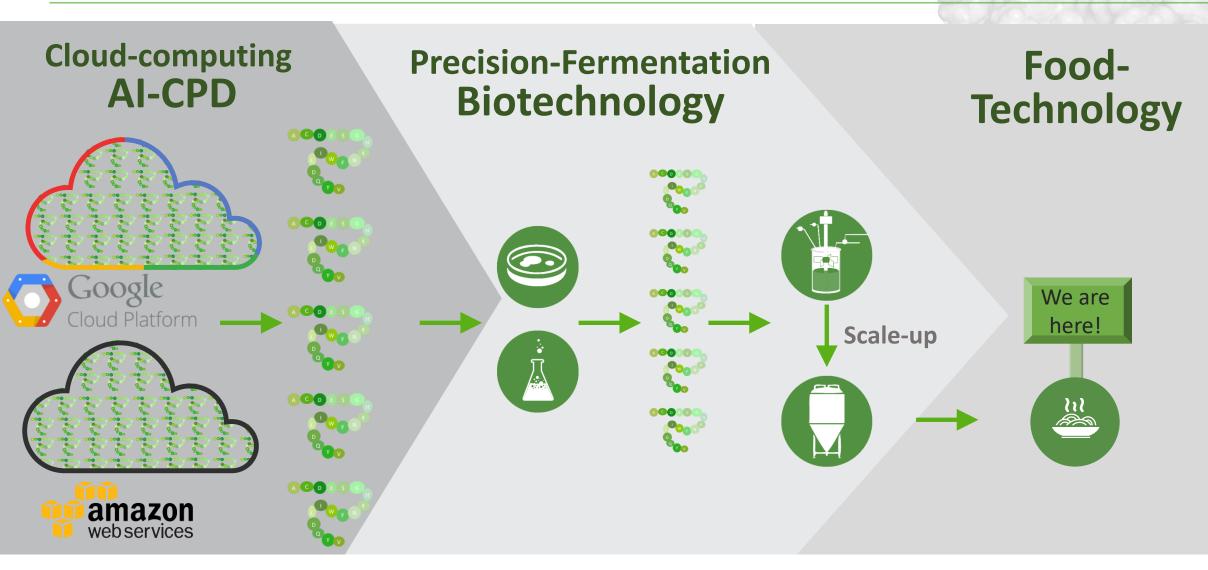


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The Amai pipeline process:



Combining the benefit of computation and biotechnology with the oldest technology of brewing



The Amai-sweetened Food & Beverages







Whip cream



Protein shake Soy drink





ketchup

Tasted by

- ✓ Over 3,000 people.
- ✓ Big-corporate super-tasters
- ✓ Expert supertaster panel

strawberry)

Beverage (Lemon,



Protein & stevia soda (Orange, Piña colada)



Sweetened beer (non-alcoholic)



Yogurt

Proteins

יוגורט פרוביוטי



Chocolate











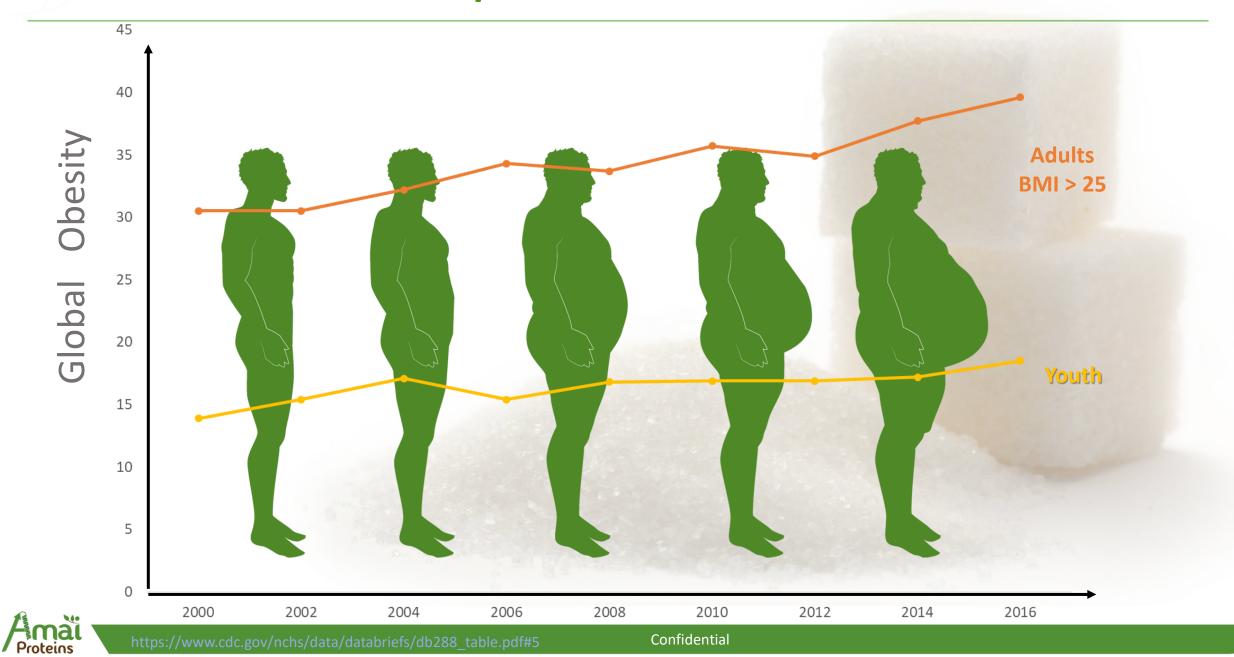


(Super) tasting our future: Amai's expert panel





The world's heaviest problem



Sugar overconsumption is a leading UN-SDG threat





















THE LANCET

Leading global health threat

CREDIT SUISSE

Sugar tax is needed



Effects numerous SDGs



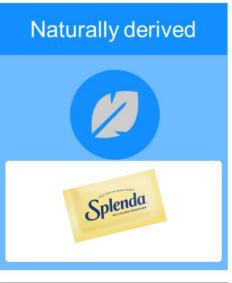
Quantitative impact plan is available upon request

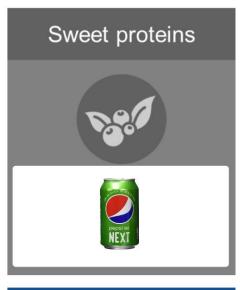


Many routes to sugar reduction solutions: No magic bullet. Not good for >30% reduction





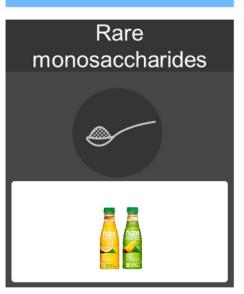
















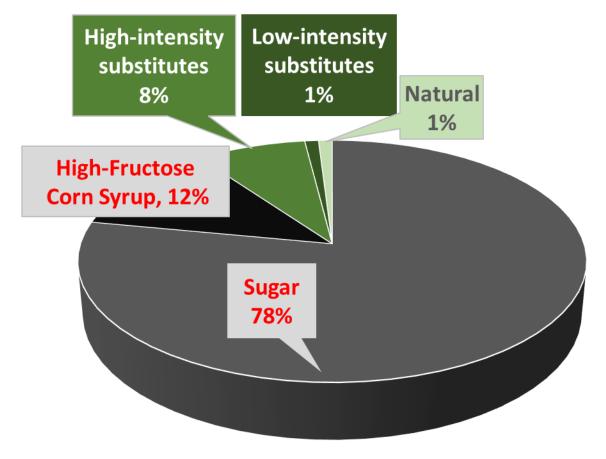


The \$90B sweetener market is mainly ... sugar

Substitutes: Not tasty, not healthy

Sugar: Not healthy







"There is a dearth of evidence on the potential adverse effects of low-calorie sweeteners"

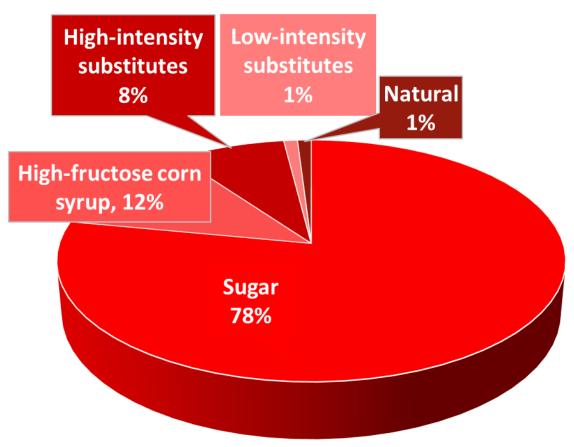
Circulation 2018;138:e126-e140



The sweetener market: \$90B

Sugar: Not healthy





Substitutes: Not tasty, not healthy

Microbiome, Liver, Kidneys



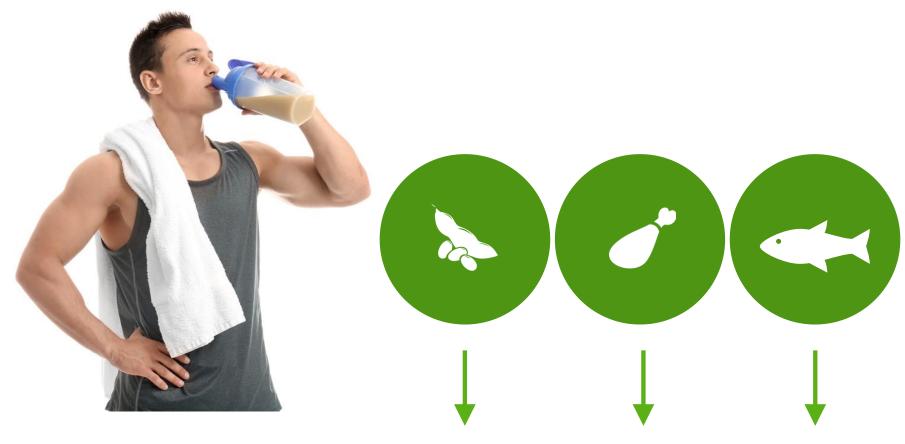
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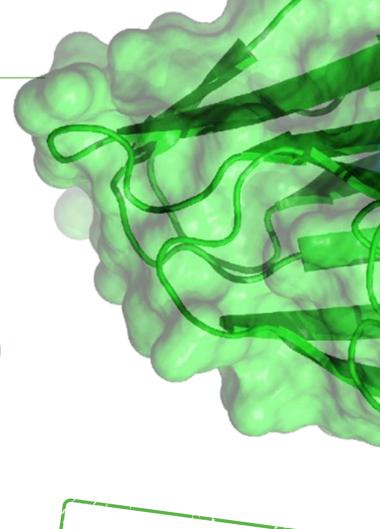
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Proteins are healthy big molecules



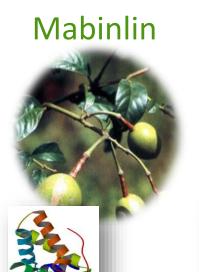




Building body muscles and tissue



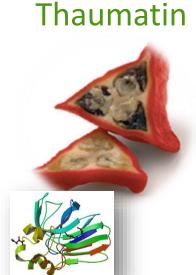
Sweet Proteins















up to 3,000X

Sweeter than sugar

Healthy

- ✓ No insulin response.
- ✓ No calories.
- ✓ No effect on microbiome, liver, kidneys.

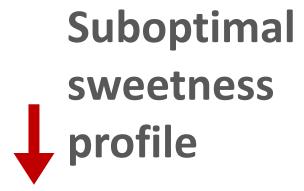


Sweet proteins are not fit for the food industry









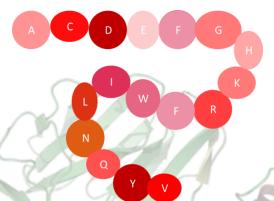


















CPD & biotechnology answer the challenge

Much cheaper than sugar Low cost

High stability







- Stable to pasteurization
- Long shelf-life

Optimal sweetness profile





- Sugar-like taste
- Synergy with e.g. stevia





Awards & Recognition: US, EU, Far-East



2019 New-Orleans IFT-Next top-10 Round-2 finalist



2019 Paris, Food Ingredients Europe (4/190 startups, 27k-attendees)



2018 TechTour EFVF, Aarhus, Denmark



2019 Berlin, Extreme Tech Challenge at Disrupt Berlin.





2019 San-Francisco AgFunder 'Most Innovative Pre-series A Supply Tech'



2018 Düsseldorf TechTour finals winner (24/1,125)

2020 Palm Beach Global Wellness Summit 1st place (1/84)



2019 The Journey Israel's top startup competition (1/200).





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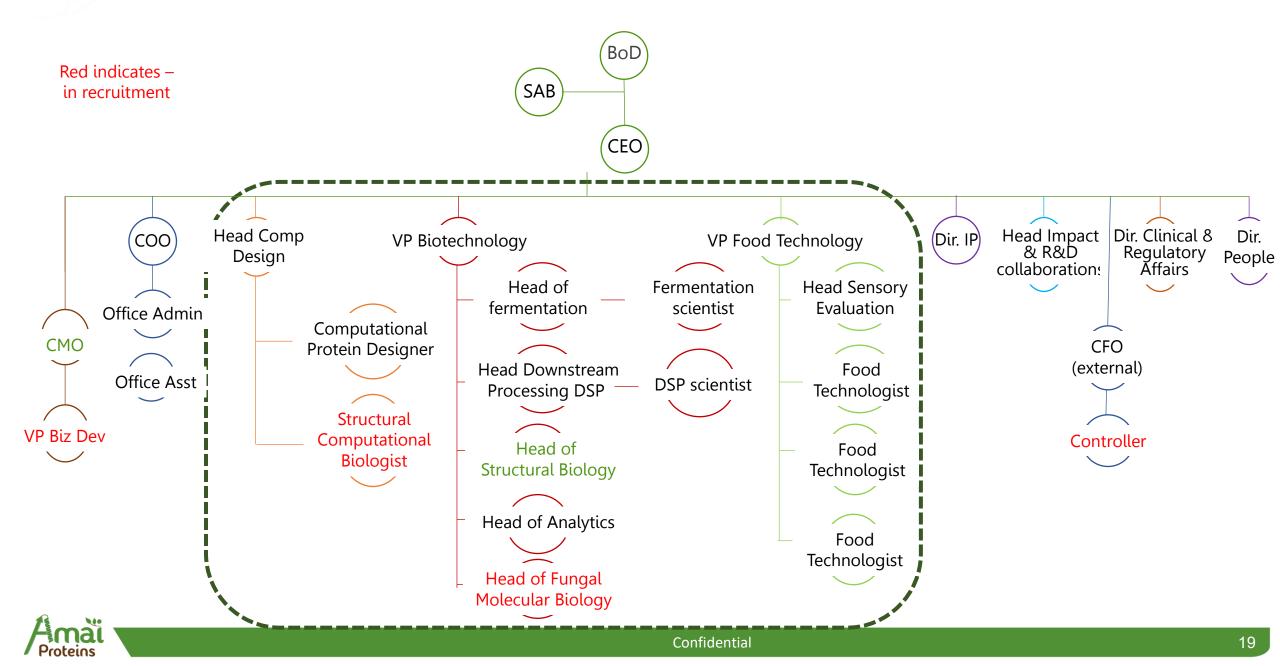
Andres Perez Dragones Venture Partners



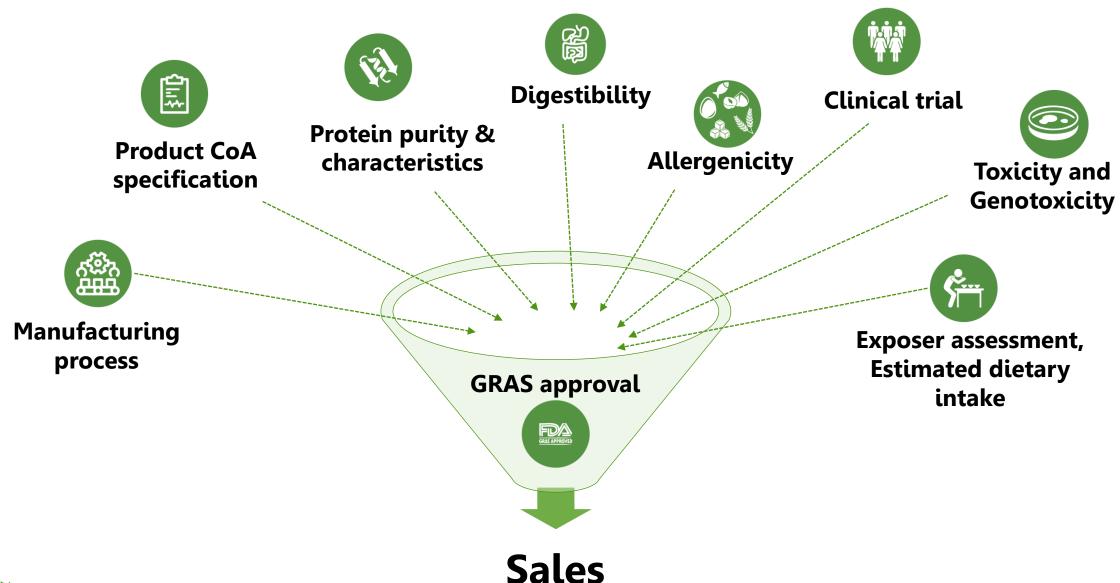


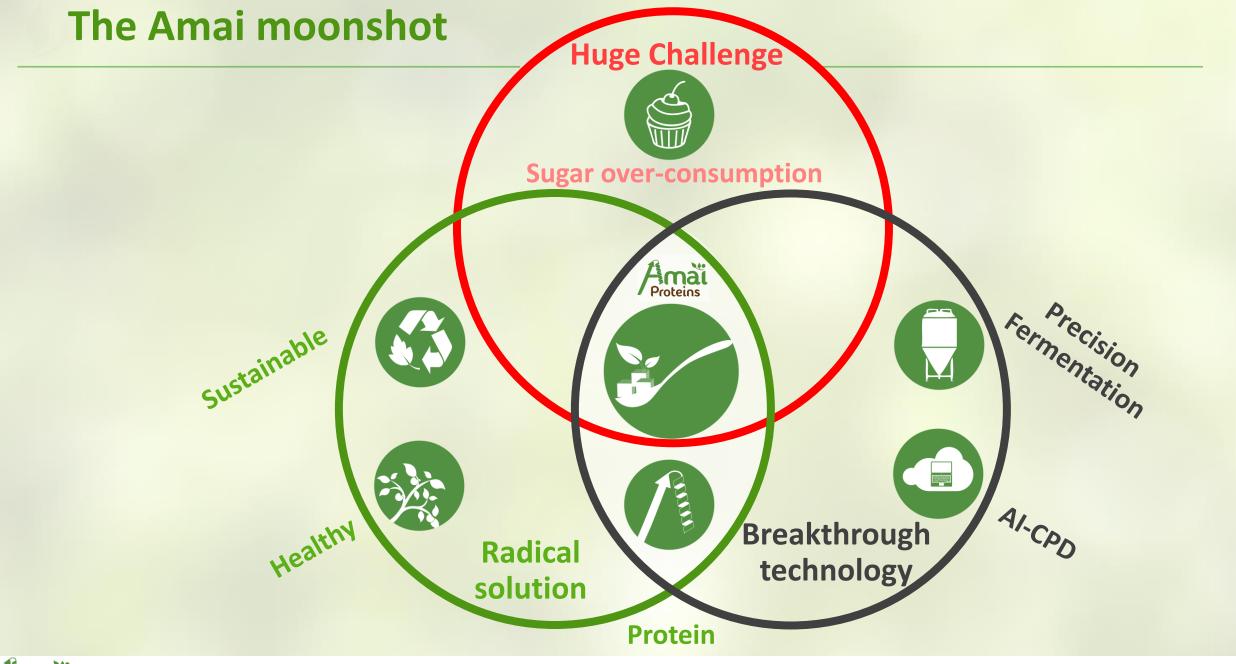
Confidential

Organizational chart 23 employees, 70% female, 9 PhDs ...and growing



Regulatory approval: Path to market: enabling sales in <2 years





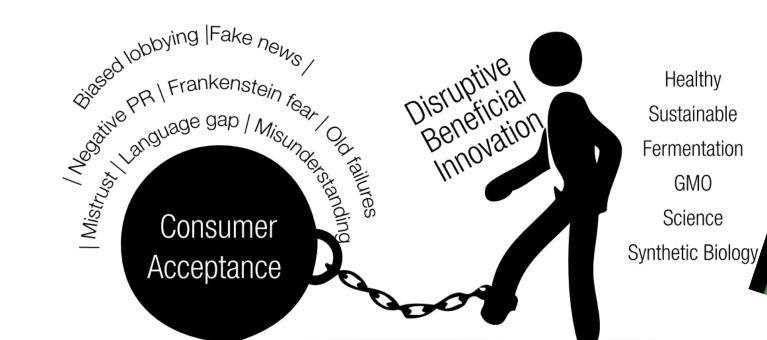


The language of Food 2.0

- Disruptive solutions are challenged by the classic intrinsic friction to change
- Spoke about it at an ISGP FDA-sponsored meeting.

The challenge:

Beneficial solutions are held back by lack of consumer acceptance







The language of Food 2.0

The solution:

Earning back consumer acceptance via regulation, language and education

Jean-Jacques Rousseau 1754



Augmenting rational language with lost perception of feeling and emotion

Why (Philosopher)?	Why (reason)?	By whom?	How to solve?
Noam Chomsky 1986	Focus on internal- and not external language	Regulatory & NGO consortium	External-language rejuvenation
Karl Popper 1945	Tolerance paradox	Inter-agency regulatory group	Prescriptive regulatory track to innovation
Thomas Kuhn 1962	The structure of scientific revolutions	Non-partisan organization	Consumer perception research & education

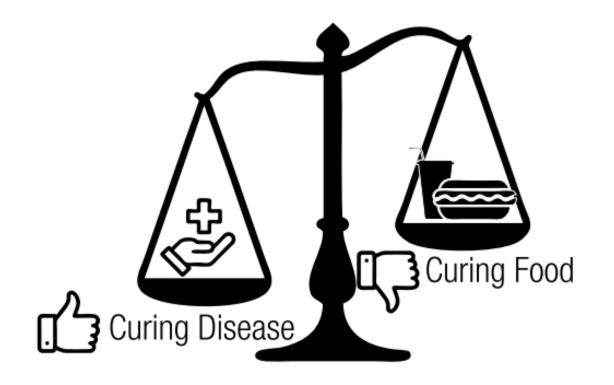




Let food be thy medicine (Hippocrates, 400 BC)

Current state:

Success in curing diseases but not in curing food







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