Today's Webinar Will Begin Shortly:

Top Technology Innovations Driving Growth in the Food and Beverage Industry

QUESTIONS?

Use the questions box on your screen

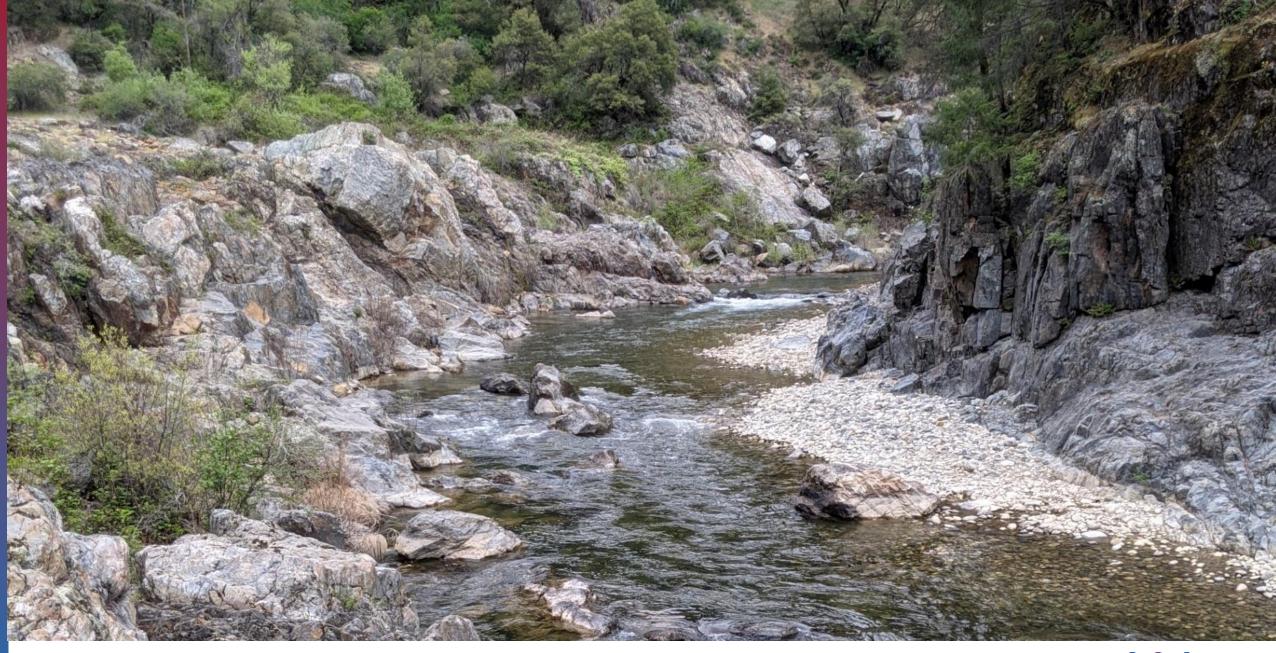
AUDIO ISSUES?

Use the global dial-in number in your confirmation email

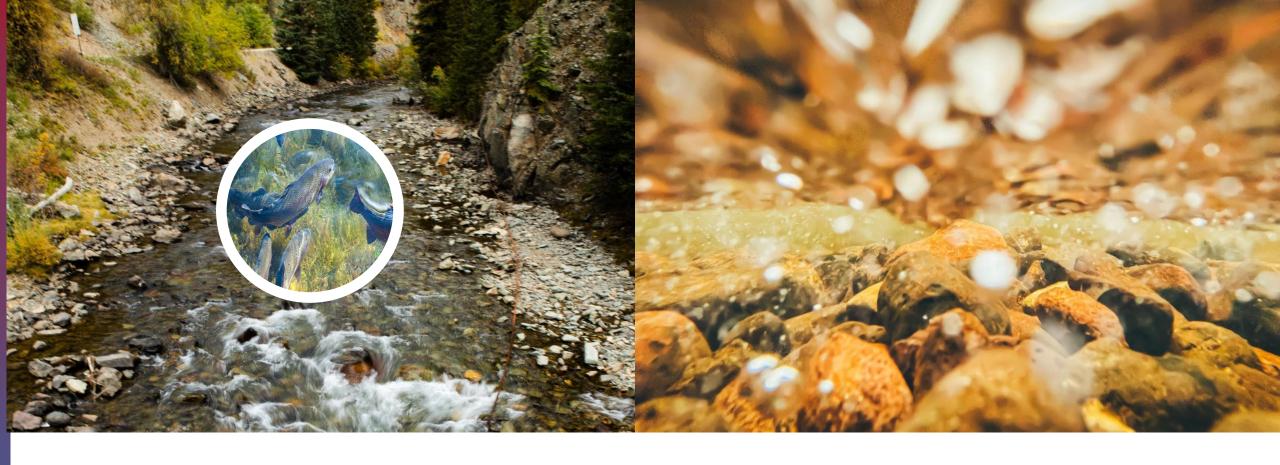


- 1 A river of choices
- 2 Innovations to make your offering stand out in the flow
- Momentum from B2B to B2C
- 4 Conclusion







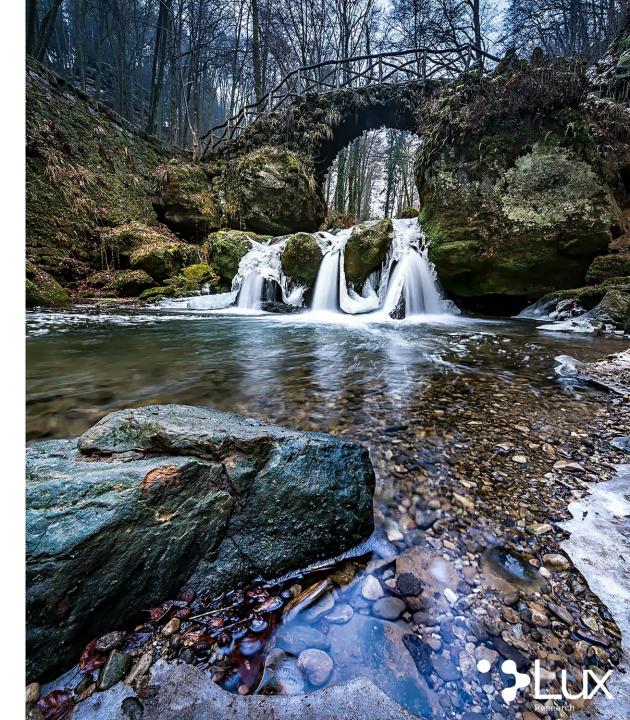


Within that river of choice there is a flow (industry) that carries resources (products) to consumers.



Success in a river of choice

The food and beverage industry brings an everincreasing diversity of products and ingredients to the market from an increasing diversity of sources. Consumers continuously select from the myriad solutions with an increasingly discerning eye for quality, outcomes, and cost among other attributes.



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*** > LUX TAKE**

Capturing opportunities through innovation among your competitors and the flood of well funded purpose built and often more agile developers is exceptionally challenging and requires implementation of a range of strategies.





The case of alternative proteins

The case of PROTEIN PRODUCTION: FOOD

PLANT PROTEINS

BEYOND MEAT	IMPOSSIBLE.	MycoTechnology		Burc n
PAR AB EL	kite hill	ecovative	#HPGPATI	Merit:
á pha	Terviv a"	shíru	♦ plantible	Improved Nature*
prime roots	J U S T	planted.		

INSECT PROTEIN

Enterra	ENVIROFLIGHT®	Grubbly Farms	Beta Hatch	TINYTHAMS
ENTEMO	ASPIRE	CHAPUL	HermetiaPro	OBERLAND de agriscience
All things Bugs	×	BUAS	Agri Pr o tein	JODN'S
FLYING SPARK	HARGCL	ॐ PROTIX	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	

CELL-BASED MEAT

WILD	physioten Messa	J U S T	MEATS	VL
BalleticFoods	nosa meat	MEMPHIS MEATS	MIRAI F ○○ DS	Smultus media
് Gelatex	MATRIX	ecovative	Meatable	Super Meat the second after
DALEPH FARMS	FUTURE MEAT	HORF	Bio.Tech. Foods.	Hs Higher Stooks
FUTURE FIELDS	§ Blue∩alu			

5 ALGAE

bioprocessalgae	MEIO MESODIO ENGNEERING	veramaris*	GLOBAL ALGAE INNOVATIONS	cellana
OUALITAS direct	ZIX.	TRITON ALGAE INNOVATIONS	ALGENOL	ALGAMA made ton microsigne
Corbion	pondiech	@		

FERMENTATION-DERIVED PROTEINS

WHITE DOG LABS	Fynd	AIR PROTEIN	SOLARFOODS	ENOUGH
Mushlabs	<u>M</u>	S.	38) E	MYCORENA
Quorn	prime roots	GELTOR	Perfect Day	remilk.
LEGENDALRY TOSTES	change	Better Dairy	New Culture	Imagindairy real milk no cows.



Plant protein immersion

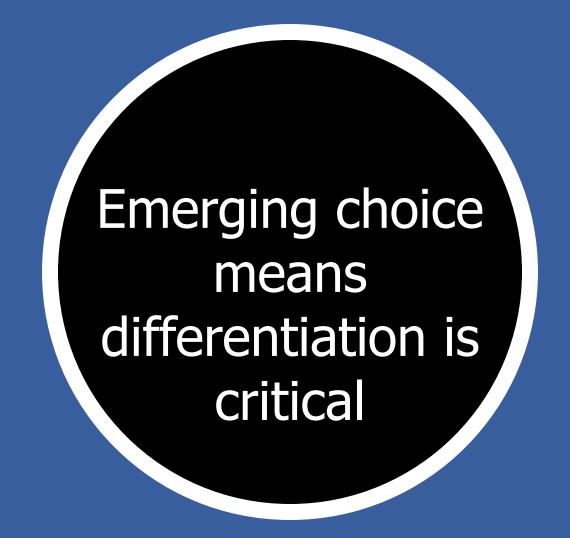
PLANT PROTEINS TECHNOLOGY LANDSCAPE



ADM	Avebe	BŮNGE	Cargill	CJ CHERJEDANK
DSM	EMSLAND GROUP	& FUJI OIL	glanbia	Ingredion
FF	KERRY	ROQUETTE	TATESLYLE	☐ Tereos
A√rıl	ANIQM	Burcon	CHICK.P	SONUCIO
S T	evergrain.	ниеная	%NNO VOPRO	
LIFE3	Merit	MycoTechnology	NAPIFERYN BIOTECH'	C PAGENTA
PARABEL	Q plantible	PROCESIA	PURIS.	VerdientFood

中粮 corco	CISCHEILJEDANG	CONAGRA	DANONE	ඵ
Hormet	(JBS)	Kelloggis	Kraft <i>Heinz</i>	HAPLE
NEEDE	Otsuka	Smithfield. Good (rod. Responsible)*	Tyson	<u>U</u>
<u>álpha</u>	BEYOND MEAT	Culture	J U S T	golden
GOOD	googd	green monday	growthwell	IMPOSSIBLE
Improved Nature	HADANA	kite hill		& LIVEKINDLY
MEATLESS	①	X NotCo	MOVA MEAT	OATLY!
OCEAN HUGGER FOXOS	Photoge	PLANETARDANS	planted.	PROCESSIO
© reduffine most	ripple	Rival	SavorEat	O ● SIMULATE®
AWA ≡	Sunfed	MEAT CO.	THIS	(2)
INRA	.0	*	E STANKEN	WADENINGE







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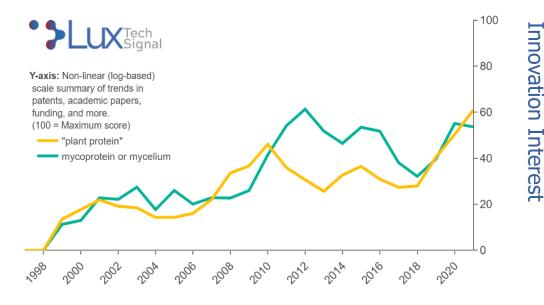
Focus on three technology areas to drive growth in the F&B sector



ALTERNATIVES

Disruptive alternative ingredients align with consumer demands and sustainability areas





DATA HIGHLIGHTS

\$500 million

The total amount of investment into mycoproteins in 2021, with 95% of that funding coming from venture









Functional ingredients

Ingredients that confer health impacts

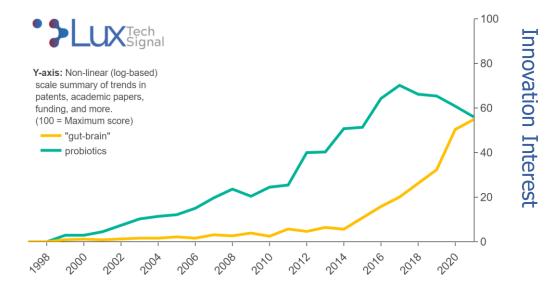
Metabolic impact

Immune system impact





Cognitive impact



DATA HIGHLIGHTS

\$1.5 billion

The total amount of investment into probiotics from 2018-2021, mainly through acquisitions





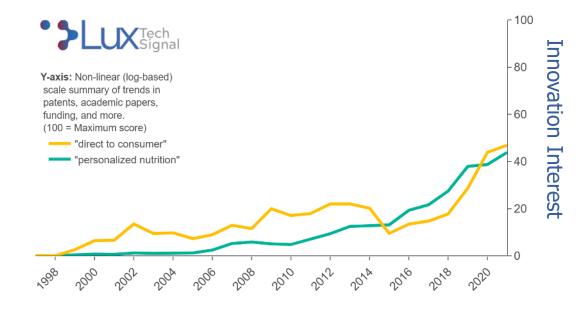




CHANNELS

Personalization and digital platforms enable improved consumer reach





DATA HIGHLIGHTS

\$100 million

DSM invested \$100 million into launch of D2C personalized nutrition company Hologram Sciences in 2021









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CASE STUDY

Unilever places its bets on diverse protein sources

WHAT

Unilever partnered with B2B mycoprotein provider "ENOUGH." This announcement follows its acquisition in the plant-based meat analog space and partnership with microalgae ingredient developer Algenuity

WHO











* > LUX TAKE

The future of proteins will be a diverse mix; capitalize on near-term opportunities, but don't miss out on promising long-term options



CASE STUDY

Danone partners with Brightseed for novel functional ingredient

WHAT

Danone will leverage Brightseed's AI platform to identify functional ingredients from key plant sources, starting with soy. This will enable Danone to promote new health advantages in its plant-based dairy portfolio

WHO







CASE STUDY

Lifenome's precision nutrition solution holds promise

WHAT

Offers personalized wellness based on AI recommendations informed by genomic data, through a precision nutrition pregnancy platform called 9Moons; recently won PepsiCo's fifth Greenhouse Accelerator program, receiving a \$100,000 grant.

WHO







CPGs should explore opportunities to engage with startups which collect and analyze multiple consumer data streams, offering sales channels for personalization.



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Key Takeaways

- Diversification drives food system competition
- **Expect a variety of solutions that will require timing to succeed**
- Interplay among innovation strategies is critical



Thank you

A link to the webinar recording will be emailed within 24-48 hours

UPCOMING WEBINARS

- **September 21**st: The Hospital of the Future
- October 26th: An Innovator's Guide to Greenwashing
- November 23rd: Key Takeaways from COP26
- December 7th: The Lux Foresight Report:
 Implications and Innovations in a Post-COVID
 World

UPCOMING EVENTS

October 5th & 6th or October 7th & 8th:

Lux Executive Summit 2021

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