



**Profeed  
Biotech**

**Sk**  
Skolkovo



FUND FOR INFRASTRUCTURE  
AND EDUCATIONAL  
PROGRAMS  
RUSNANO Group

**Protein FeedBioTech Research  
Yeast technologies for sustainability**

# Companies and products

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**Profeed  
Biotech**

Healing and prophylactic probiotic  
for animals and human

**Probiotic Kluyver**

On sale from 2021

Protein with crude protein over 60%

**PROTEIN60+**

Technology is ready for  
scaling, product is tested



Astaxanthin in yeast biomass –

**ASTAf+**

First sale in 2023

Beta-carotene in yeast biomass –

**Beta+**

Testing on animals


The companies develops, manufactures and sells **high-tech yeast technologies** for the feed, food and nutraceutical industries.

# Products and markets

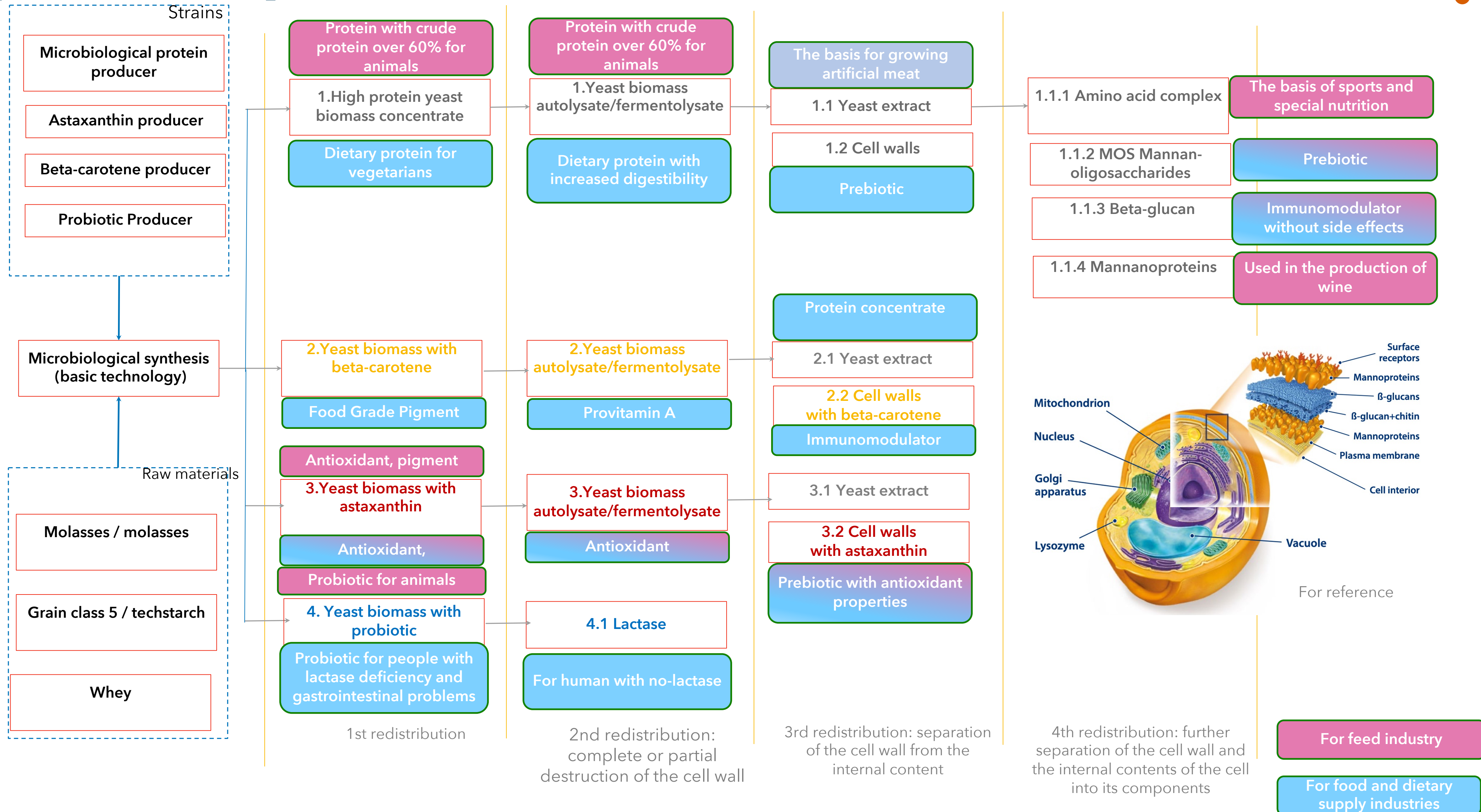
Product Technology/ Market	Current developments 2016-2023	Future developments 2023-2030		
	Feed industry	Food	Nutraceutical Cosmetology	Pharma
Microbiological protein and its redistributions (yeast extract, cell walls) <b>\$ 1 8 0 B</b> C A G R 6 %	Feed protein with crude protein more than 60% <b>Protein 60+</b> protein feed ingredient, replacement of fishmeal	Edible protein, baby food, the basis for artificial meat	Sports nutrition, special nutrition, beta-glucans	Peptides, enteral nutrition
Astaxanthin Phaffia rhodozyma <b>\$ 1 , 5 3 B</b> C A G R 1 5 %	Astaxanthin in yeast biomass – <b>ASTAf+</b> pigment and antioxidant for aquaculture and livestock increases survival and fertility	Pigment and the strongest antioxidant for beverages and products	Dietary supplements and cosmetics, antioxidant, youthful eyes, skin, joints	Agent of delivery of therapeutic substances, geroprotector
Probiotic Kluyveromyces marxianus <b>\$ 3 , 6 B</b> C A G R 7 %	Therapeutic and prophylactic probiotic for animals (cattle, poultry, pigs, horses, camels etc.) <b>Probiotics Kluver</b> Increasing the productivity in short and long periods	Basis for fermented milk products and bread	Dietary supplements and cosmetics – microbiota, skin immunity	Therapeutic probiotic for humans, including children with lactase deficiency
Beta-carotene <b>\$ 7 8 0 M I n</b> C A G R 6 %	Beta-carotene in yeast biomass <b>BETAf+</b> At the same time, 50% of vitamin A in the diet, pigments for coloring (fish, yolk, carcasses), immunomodulator, protein.	Pigment and antioxidant for beverages and products	Cell walls with beta-carotene – a two-component immunomodulator	A cheap and bioavailable drug to compensate for vitamin A deficiency

# Intellectual properties

LLC "Protein FeedBioTech Research" has its own unique strains, patents and know-how.

<b>Component integrated innovation and advantages</b>	<b>Protection Intellectual Property</b>
Strains that exceed the best world analogues in terms of quality are not inferior to natural analogues, in terms of costs - comparable to chemical equivalents (BASF and DSM pigments)	Deposit in the Russian Federation, inclusion in the International Collection 
Multivariate, strain-optimized technologies on cheap raw materials (depends on the localization of production)	Know-hows and patent
Innovations in equipment that increase biomass yield and product quality	Know-how and patent application
Highly qualified team with experience in creating biotechnological industries	Share in the company, options and NDA
Placement in the Russian Federation (the Russian Federation has a competitive advantage in the world for the creation of large-scale biotech: affordable cheap raw materials, cheap gas and electricity, a lot of water)	Safety system

# All possible products





# Profeed Biotech

[profeedbio.com](http://profeedbio.com)



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Moscow Skolkovo Innovation Center –  
genetic laboratory and main office

Kazan – own lab, own production,  
contract production

Pushino – own lab, contract production

**+ 22 persons** in 2 laboratories and production



**Olga Afanaseva**

Executive Director



**Zlata Afanaseva**  
Master of Economics

International Development  
Director



**Marat Shavaliyev**  
Ph.D.

CTO



**Ilya Azhermachev**

Production



**Ludmila German**  
Ph.D.

Science Director

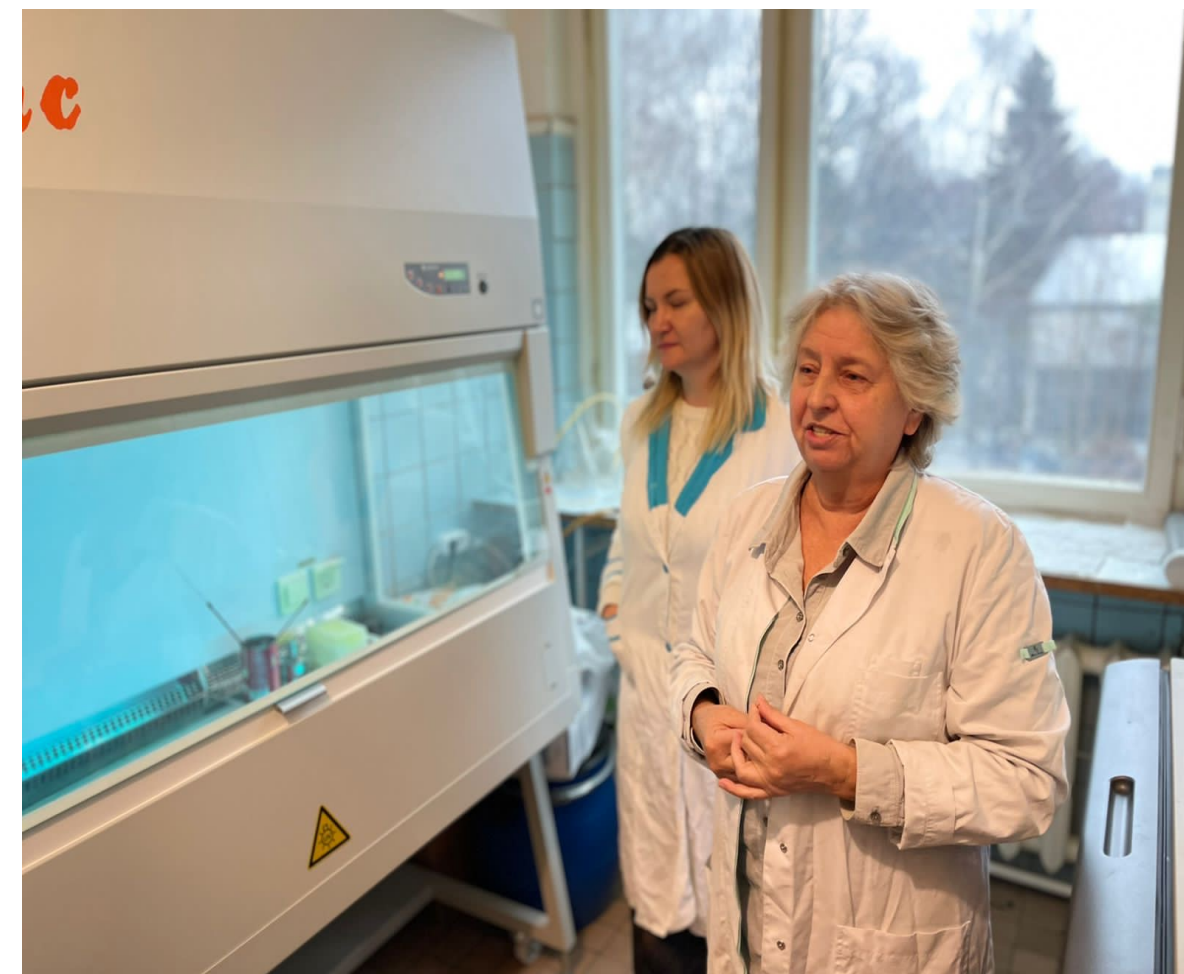


**Mihail Vustin**  
Ph.D.

Geneticist



# Pushchino Laboratory



# Production in Pushchino



# Production in Kazan

