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NASDAQ:MLEC

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The Team

Moolec is led by a fourth-generation member of one of Latam's largest pork and meat producers.









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MATT REYNOLOS SCIENCE JAN 2, 2824 7:88 AM

For Gastón Paladini, pork is a family affair. In 1923, his great-grandfather Don Juan Paladini moved from Italy to Santa Fe, Argentina, where he started putting a South American twist on classic Italian sausage recipes. Eventually, Don Juan's company became one of Argentina's largest meat producers. It still bears the family name: Paladini.

Henk Hoogenkamp, Ph.D CPO & Co-Founder

20+ years in food and bio-materials applications with special focus on animal and plant-based proteins

(5)

Nasdag

Amit Dhingra, Ph.D Chief Science Officer

30+ years in genomics and plant biotechnology. Prof. and Head, Department of Horticultural Sciences, Texas A&M University

Martín Salinas, Ph.D

20+ years in Ag-biotech space leading the world's first industrial production of animal protein in plants for the food industry

CTO & Co-Founder

José López Lecube, MBA Chief Financial Ofcer

20+ years in strategic roles for multinational companies in agribusiness and tech with expertise in finance, strategy, and partnerships

(3)

(6)

Catalina Jones, B.A. Chief of Staff & Sustainability

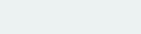
20+ years in communications and sustainability strategy for financial, agribusiness, packaging and food industry

David Heron, Ph.D Global Regulatory Affairs Advisor

40+ years in the biotechnology regulatory program of USDA-APHIS focused on policy development and agricultural capacity building



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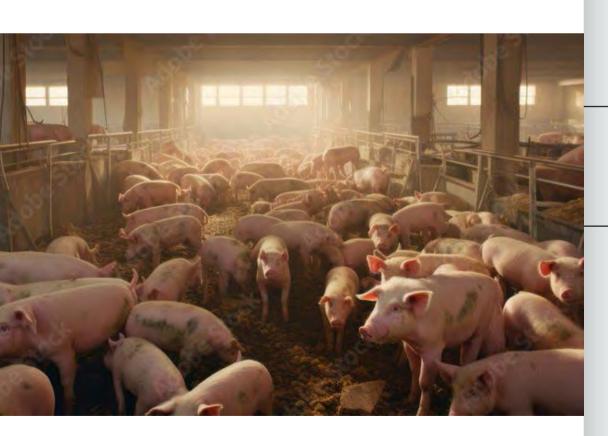


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The Problem

Livestock production is widely considered to be unsustainable and unstable with increasing costs and risks.1



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1.CO₂ Emissions

~20% of world's GHG emissions come from livestock, land use and crops destined for feed.

2. Water Consumption

15,400 liters of water are used to produce 1kg of meat. ~10% of the global water supply is destined for livestock production.

3. Antibiotics & Hormones

66% of antibiotics are used in farm animals to prevent diseases. Estrogens or androgens are often administered intended to promote growth.

4. Food Insecurity

Mainly caused by global conflicts, environmental degradation, and non derisking management of supply chains.

5. Pests and Diseases

Present risk in confined animals such as the African Swine Pig Flu and the Avian Influenza.

The Solution

Moolec genetically engineers soybeans with pig proteins to tweak the meat value chain.

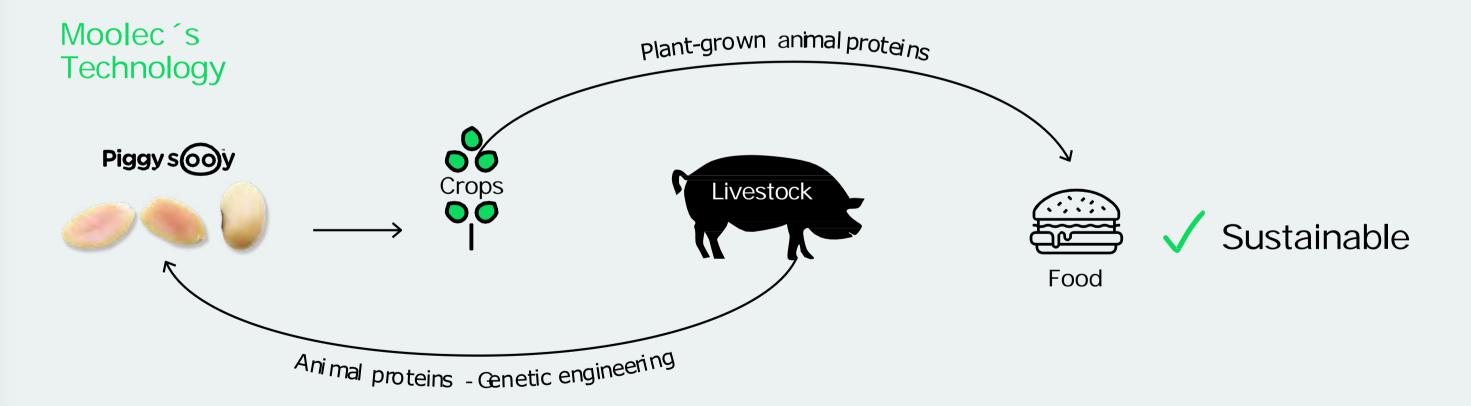




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Traditional





Molecular Farming: a cost-effective way to produce alternative proteins



Plants as Bioreactors

We use plants as small factories, without extra energy cost using biology.

SCIENCE

INGREDIENTS



No extra purification cost

We mix animal and plant proteins saving the extra purification cost.



Economy of scale

We use the hectares of farming to achieve volume, productivity and low costs.





Moolec's Products and Science-based Pipeline in Food Ingredients and Supplements

In the Market



Soy

Meat Replacements

Sov-based ingredients for hamburgers, sausages, meat balls, ground-meat, and other plant-based products

In Scale Up Molecular Farming SPCo

Safflower

Nutritional Oil

Gamma Linolenic Acid (GLA) engineered in safflower seeds to enrich dietary supplements nutritional beverages and pet food.

Cheese Ingredient

Chymosin engineered in safflower seeds, a key ingredient for the clotting

step in cheese production

In Product Development

Molecular Farming





Supplement¹

YEEA 0

Yeast-based ingredient, to use as food savory flavoring and/or nutritional supplement in replacement of specific animal-derived functions



Meat Replacement 2.0



Plant and animal science-based highly functional meat replacement ingredient, containing soybean and porcine proteins.

Plant and animal science-based highly functional meat replacement ingredient, containing pea and bovine proteins.





The Product Pipeline

Moolec builds its revenue streams with progressive stages based on added value, technology and market demands.





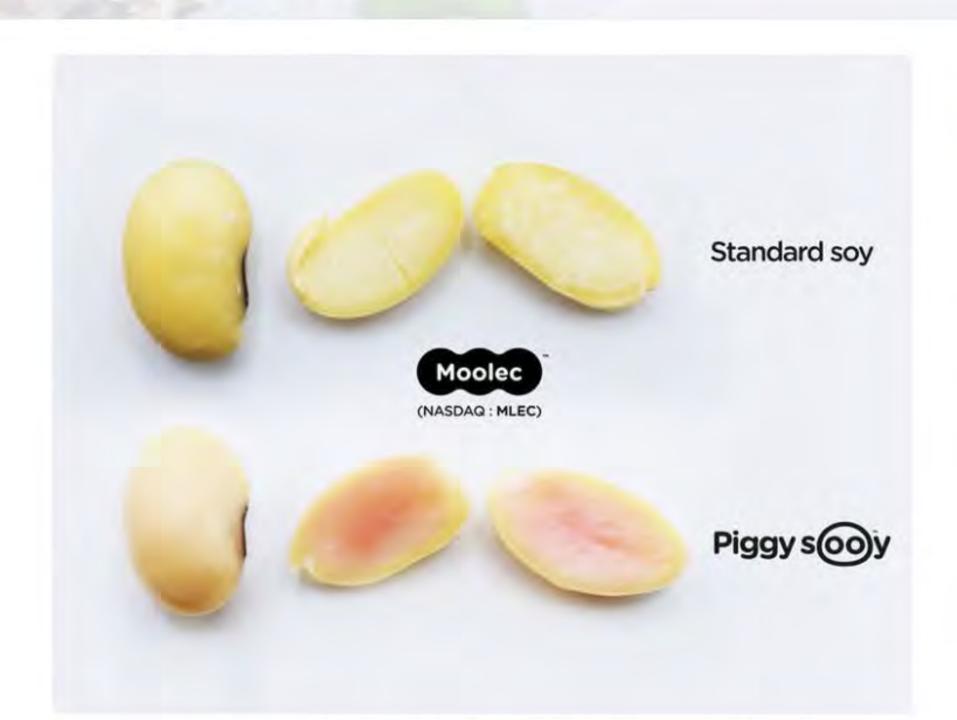
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PRODUCT	DISCOVERY	TRANSFORMATION	DEVELOPMENT	SELECTION	SCALE-UP	DOWNSTREAM	COMMERCIALIZATION	ADDRESSABLE MARKET	REGULATORY APPROVALS
TSP Valorasoy [™] (Textured Soy Proteins)							PRESENT	U\$ 1B	✓
GLASO™ (Nutritional Oil/GLA)							FY25	U\$ 1,5B	✓
Piggy Sooy [™] (Soy + Meat Proteins)							FY27	U\$ 30 B	
PEEA1 (Pea + Meat Proteins)							FY28	U\$ 22 B	

Other
Science-based
Projects

SPC2
(Chymosin in Safflower)

YEAA1 (Iron Supplement)



Moolec becomes first molecular farming company to achieve USDA approval for plant-grown animal proteins

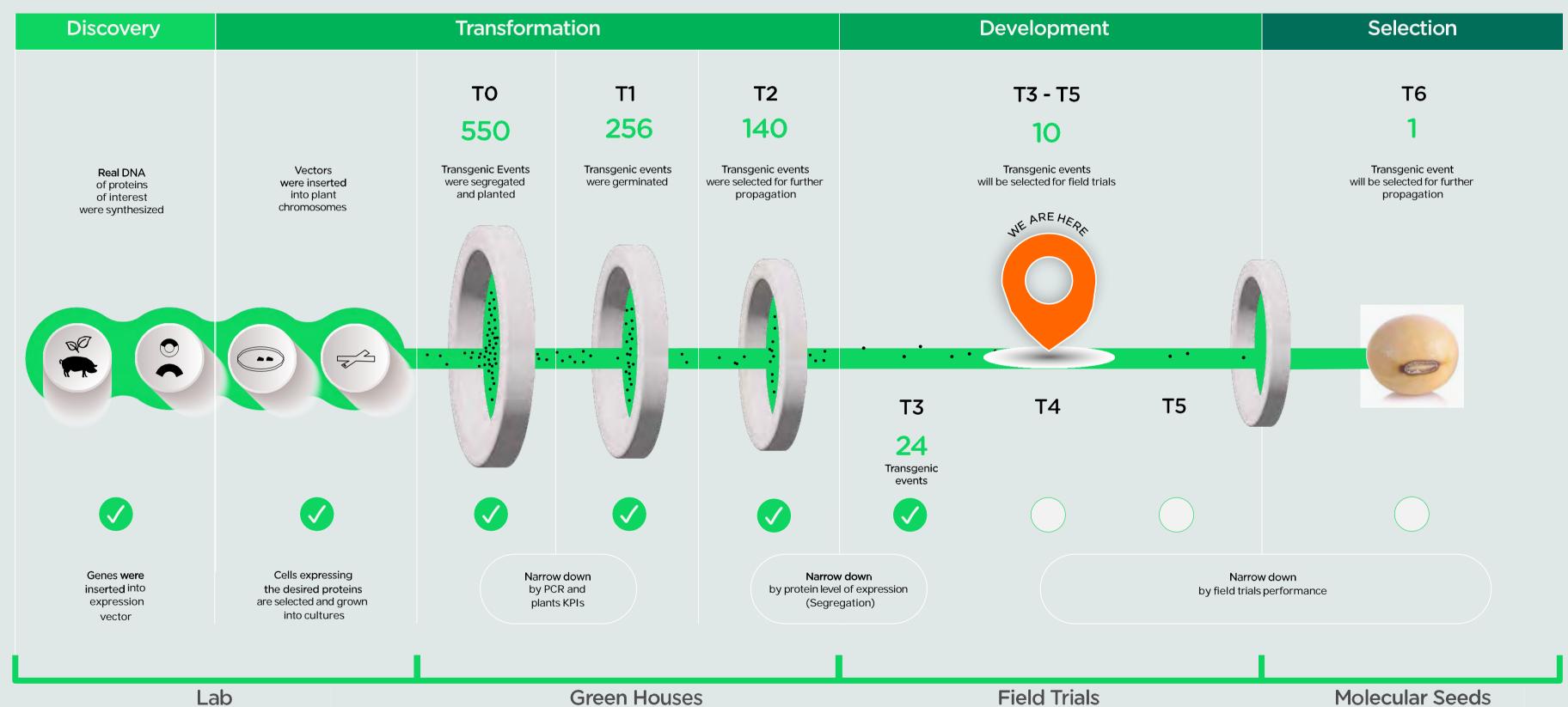
April 22, 2024





Moolec Science, a molecular farming food-ingredient company, has announced that the Animal and Plant Health Inspection Service (APHIS) of the US Department of Agriculture (USDA) has concluded its Regulatory Status Review (RSR) for Moolec's genetically engineered (GE) soybean 'Piggy Sooy'.

SOOY1 Process & Status





The Technology

Moolec can replicate the same protein DNA from animals in plants by using science.





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Standard Soy



Soy proteins only











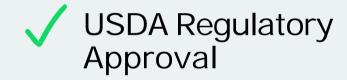


High Yields Achieved

~25% of targeted molecule over total soluble proteins. 1



One acre of Piggy Sooy™ could potentially save ~60,000 litres of water and ~550kg CO₂eq emissions.

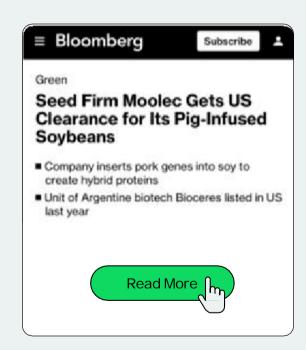


First company in history to achieve USDA-APHIS approval for plant-grown animal proteins.

Patented Technology

Method of high level of expression in plants protected (Patent pending)





¹Total pig protein content per seed varies based on the obtained total soluble protein (TSP) parameter. 2 One acre of traditional soybeans can feed ~10 pigs. Sources:

[•] https://www.unitedsoybean.org/hopper/driving-demand-from-the-field-to-the-feed-trough/#;--;text=Hogs%20consumed%2018%25%20of%20U.S.,hog%20famers

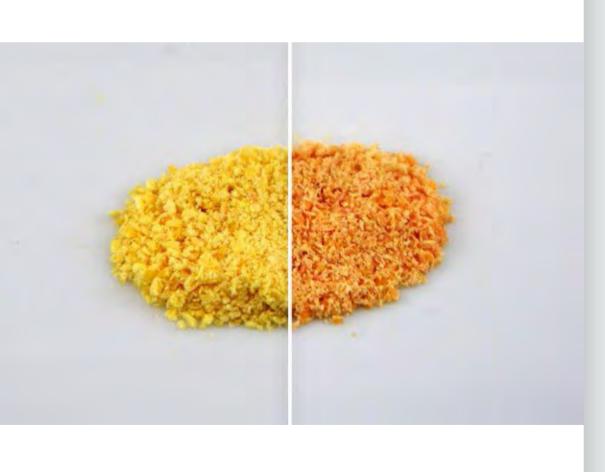
https://fas.usda.gov/data/production/commodity/0813100

https://meatthefacts.eu/home/activity/campaign-updates/how-much-water-for-1-kg-of-meat/
 https://pubmed.ndbi.nlm.nln.gov/38231615/#: ~: text=The%20carbon%20footprint%20of%20the,4.52%20kg%20002e

[•] https://peic.org/whait-greenhouse-gases-are-emitted-by-pig-farms/#: -: text=The%20two%20areas%20where%20the,and%20poultry%20in%20in%20Uhe%20U.S

The Product

Moolec develops clean label ingredients to replace more meat and expensive additives.



How Industry Works

Flavor Houses Producing Functional Ingredients

Agribusiness Companies **Processing Soybeans**

Ingredients Meat Flavorings (High Cost) Red Coloring (High Cost) Meat & Fats as Raw Material Feed Livestock Soy Proteins as Meat Extender (Filler)



Food Producers of Sausages, Burgers, Nuggets, Dumplings, etc.

What Moolec Can Ofer



Meat Replacement



Same Iron, Flavor & Color as Meat¹

Less Carbon & Water Footprint than Livestock²



Food Producers of Sausages, Burgers, Nuggets, Dumplings, etc.

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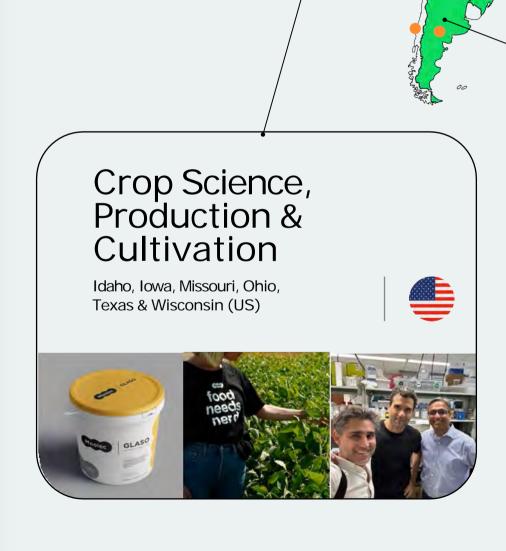
1 Moolec's internal analysis based on publicly disclosed information for the industry and management estimates 2 Moolec's technology is more friendly to the environment when compared to traditional protein production systems using \sim 35x less land, generating \sim 8x less water footprint and \sim 60x less CO₂ emissions. Sources:

- https://ourworldindata.org/agricultural-land-by-global-diets
 https://waterfootprint.org/en/water-footprint/product-water-footprint/water-footprint-crop-and-animal-products/
 https://ourworldindata.org/food-choice-vs-eating-local

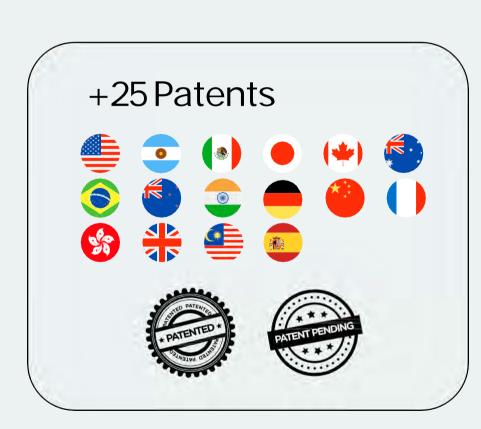
The Capabilities

Moolec operates in the United States & Argentina, commercializes and protects its IP worldwide.









IP protected countries

Current sales & customers



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Moolec Science gains USDA approval for first genetically modified pea

October 16, 2024











The Key Milestones

Moolec has been delivering milestones focusing on results and commitment to value creation and purpose.





Piggy Sooy™ offtake GLASO™ Piggy Sooy™ Field Commercial Agreements SOY PROTEIN MODICE Launch Trials BÜNGE grupoinsud Piggy Sooy™ US Patent Piggy Sooy™ Piggy Sooy™ Bioceres Crop Solutions Sampling Customers Granting Approval Piggy Sooy™ GLASO™ PEEA1 **Strategic** USDA High level Investors Commercial Capital Raise of Expression Contracts **Approval**

R&D Agreement

Safflower

Development

Piggy Sooy™

USDA

Approval

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TSP

Valorasoy™

Commercialization

GLASO™

USDA

Approval



Let·s redefine the way we produce animal proteins for the good of the planet.



