

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, DC 20549

Form 6-K

REPORT OF FOREIGN PRIVATE ISSUER
PURSUANT TO RULE 13a-16 OR 15d-16 UNDER
THE SECURITIES EXCHANGE ACT OF 1934

For the month of February 2025
Commission File Number 001-38370

CollPlant Biotechnologies Ltd.
(Exact name of registrant as specified in its charter)

4 Oppenheimer St, Weizmann Science Park
Rehovot 7670104, Israel
(Address of principal executive office)

Indicate by check mark whether the registrant files or will file annual reports under cover of Form 20-F or Form 40-F.

Form 20-F Form 40-F

The first paragraph under the heading “Photocurable Dermal Filler Program: Additional Patent Granted”, the second and third paragraph under the heading “Dermal Filler Program” and the first paragraph under the heading “Cost Reductions in Place” of the press release attached to this Form 6-K as Exhibit 99.1 are hereby incorporated by reference into the registrant’s Registration Statements on Form S-8 (File No. [333-229163](#), [333-248479](#), [333-263842](#), [333-271320](#) and [333-279791](#)) and Form F-3 (File No. [333-238731](#) and [333-269087](#)), to be a part thereof from the date on which this report is submitted, to the extent not superseded by documents or reports subsequently filed or furnished.

On February 12, 2025, CollPlant Biotechnologies Ltd. (the “Company”) issued a press release entitled “CollPlant Biotechnologies Provides a Corporate Update”. A copy of the press release is attached hereto as Exhibit 99.1 and is incorporated herein by reference.

In addition, the Company has posted to its website an updated corporate presentation. A copy of the presentation is attached hereto as Exhibit 99.2 and is incorporated herein by reference.

Attached hereto and incorporated by reference herein are the following exhibits:

99.1 [Press Release, dated February 12, 2025.](#)
99.2 [Corporate Presentation.](#)

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SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

COLLPLANT BIOTECHNOLOGIES LTD.

Date: February 12, 2025

By: /s/ Eran Rotem

Name: Eran Rotem
Title: Deputy CEO and
Chief Financial Officer

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CollPlant Biotechnologies Provides a Corporate Update

- Additional patent granted for photocurable dermal filler
- Update on AbbVie dermal filler program and achievement of contingent payment
- Plan for cost reductions in place to extend cash runway

REHOVOT, Israel, February 12, 2025 – CollPlant Biotechnologies (Nasdaq: CLGN), or “CollPlant”, a regenerative and aesthetics medicine company developing innovative technologies and products based on its non-animal-derived collagen for tissue regeneration and medical aesthetics, today provided a corporate update.

Photocurable Dermal Filler Program: Additional Patent Granted

CollPlant today announced it has been granted U.S. Patent No. 12,186,449 related to its photocurable dermal filler product candidate. The patent relates to polymerizable solutions that are comprised of modified recombinant human collagen (rhCollagen) and other constituents such as hyaluronic acid. The Patent will expire on 2 May 2039.

Mr. Yehiel Tal, Chief Executive Officer of CollPlant Biotechnologies, commented, “We are very proud of obtaining another U.S. patent for our photocurable product candidate. The photocurable filler is differentiated from existing fillers in the market since it is designed to enable tissue regeneration and tissue contouring in addition to offering superior skin lifting capacity. The U.S. is one of CollPlant's strategic target markets, and with the patents we are amassing for this candidate, as well as the duration of protection granted for each, this provides a significant achievement to strengthen our intellectual property in this important territory, as well as set a high barrier to entry for any competition”.



Dermal Filler Program

Under CollPlant's existing development and commercialization agreement, CollPlant has granted AbbVie a worldwide exclusive license to use CollPlant's rhCollagen technology in combination with AbbVie's proprietary technologies for the production and commercialization of dermal and soft tissue fillers.

AbbVie is collecting data and conducting a review of interim results from the first cohort of patients enrolled in the dermal and soft tissue filler clinical trials initiated in 2023 and next steps for the program are to be determined upon complete assessment.

Separately, CollPlant announced today the receipt of a contingent payment with respect to CollPlant's rhCollagen, which, according to the development and commercialization agreement, triggers a \$2 million payment from AbbVie to CollPlant.

Mr. Tal stated, “Our collagen has been fully characterized for its molecular, biological and physical properties, and is therefore considered an attractive scaffolding molecule for tissue regeneration, that is not eliciting an immune response.” Tal added “We plan to provide an update when the AbbVie clinical trial has concluded.”

Cost Reductions in Place

CollPlant recently updated its expense forecast and has initiated a cost cutting and workforce reduction plan. CollPlant's updated allocation of resources is expected to result in a reduction in CollPlant's workforce by approximately 20% and based on current estimates, allow it to continue its business activities including those related to its primary research and development programs until at least the second quarter of 2026.

Mr. Tal added, “In 2025 CollPlant will focus its activities on advancing the development of its product candidate pipeline, including the development of the regenerative breast implant product candidate towards the clinical phase. I look forward to providing updates on our programs throughout the year.”

In accordance with today's press release, please refer to CollPlant's latest corporate presentation that can be found on its website, www.collplant.com, within the Investors/Company Info/Presentations section, or you may access the updated presentation directly at the link here.

About CollPlant Biotechnologies

CollPlant is a regenerative and aesthetic medicine company focused on 3D bioprinting of tissues and organs, and medical aesthetics. The Company's products are based on its rhCollagen (recombinant human collagen) produced with CollPlant's proprietary plant-based genetic engineering technology. These products address indications for the diverse fields of tissue repair, aesthetics, and organ manufacturing, and are ushering in a new era in regenerative and aesthetic medicine.

In 2021, CollPlant entered into a development and global commercialization agreement for dermal and soft tissue fillers with Allergan, an AbbVie company, the global leader in the dermal filler market.

For more information about CollPlant, visit <http://www.collplant.com>



This press release may include forward-looking statements. Forward-looking statements may include, but are not limited to, statements relating to CollPlant's objectives plans and strategies, as well as statements, other than historical facts, that address activities, events or developments that CollPlant intends, expects, projects, believes or anticipates will or may occur in the future such as expectations regarding CollPlant's cash resources. These statements are often characterized by terminology such as "believes," "hopes," "may," "anticipates," "should," "intends," "plans," "will," "expects," "estimates," "projects," "positioned," "strategy" and similar expressions and are based on assumptions and assessments made in light of management's experience and perception of historical trends, current conditions, expected future developments and other factors believed to be appropriate.

Forward-looking statements are not guarantees of future performance and are subject to risks and uncertainties that could cause actual results to differ materially from those expressed or implied in such statements. Many factors could cause CollPlant's actual activities or results to differ materially from the activities and results anticipated in forward-looking statements, including, but not limited to, the following: the Company's history of significant losses, its need to raise additional capital and its inability to obtain additional capital on acceptable terms, or at all, including uncertainties surrounding the methods of fundraising and the Company's preferences regarding such methods; the Company's expectations regarding the costs and timing of commencing and/or concluding pre-clinical and clinical trials with respect to breast implants, tissues and organs which are based on its rhCollagen based BioInk and other products for medical aesthetics, and specifically the Company's ability to initiate its next large-animal study for its breast implants in a timely manner, or at all; the Company's or Company's strategic partners' ability to obtain favorable pre-clinical and clinical trial results, including with respect to the Company's dermal filler product; regulatory action with respect to rhCollagen-based bioink and medical aesthetics products or product candidates including, but not limited to, acceptance of an application for marketing authorization review and approval of such application, and, if approved, the scope of the approved indication and labeling; commercial success and market acceptance of the Company's rhCollagen based products, in 3D Bioprinting and medical aesthetics; the Company's ability to establish sales and marketing capabilities or enter into agreements with third parties and its reliance on third party distributors and resellers; the Company's ability to establish and maintain strategic partnerships and other corporate collaborations, including its partnership with AbbVie and its ability to continue to receive milestone and royalties payments under the AbbVie agreement; the Company's reliance on third parties to conduct some or all aspects of its product development and manufacturing; the scope of protection the Company is able to establish and maintain for intellectual property rights and the Company's ability to operate its business without infringing the intellectual property rights of others; current or future unfavorable economic and market conditions and adverse developments with respect to financial institutions and associated liquidity risk; the impact of competition and new technologies; general market, political, and economic conditions in the countries in which the Company operates, including, with respect to the ongoing war in Israel, projected capital expenditures and liquidity, changes in the Company's strategy and development plans and projects, and litigation and regulatory proceedings. More detailed information about the risks and uncertainties affecting CollPlant are contained under the heading "Risk Factors" included in CollPlant's most recent annual report on Form 20-F filed with the SEC, and in other filings that CollPlant has made and may make with the SEC in the future. The forward-looking statements contained in this press release are made as of the date of this press release and reflect CollPlant's current views with respect to future events, and CollPlant does not undertake and specifically disclaims any obligation to update or revise any forward-looking statements, whether as a result of new information, future events or otherwise.

Contacts

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Email: Eran@collplant.com

Investors:

LifeSci Advisors
Dan Ferry
daniel@lifesciadvisors.com



CollPlant Corporate Presentation

Nasdaq: CLGN

February 2025



Forward-Looking Statements

The statements made in this presentation speak only as of the date stated herein, and subsequent events and developments may cause our expectations and beliefs to change. Unless otherwise required by applicable securities laws, we do not intend, nor do we undertake any obligation, to update or revise any forward-looking statements contained in this presentation to reflect subsequent information, events, results or circumstances or otherwise. While we may elect to update these forward-looking statements publicly at some point in the future, we specifically disclaim any obligation to do so, whether as a result of new information, future events or otherwise, except as required by law.

Certain statements in this presentation constitute "forward-looking statements" within the meaning of Section 27A of the Securities Act and Section 21E of the Securities Exchange Act and are usually identified by the use of words such as "anticipates," "believes," "estimates," "expects," "intends," "may," "plans," "projects," "seeks," "should," "will," and variations of such words or similar expressions. We intend these forward-looking statements to be covered by the safe harbor provisions for forward-looking statements contained in Section 27A of the Securities Act and Section 21E of the Securities Exchange Act and are making this statement for purposes of complying with those safe harbor provisions. These forward-looking statements reflect our current views about our plans, intentions, expectations, strategies and prospects, which are based on the information currently available to us and on assumptions we have made. Although we believe that our plans, intentions, expectations, strategies and prospects as reflected in or suggested by those forward-looking statements are reasonable, we can give no assurance that the plans, intentions, expectations or strategies will be attained or achieved. Furthermore, actual results may differ materially from those described in the forward-looking statements and are expected to be affected by a variety of risks and factors that are beyond our control. Risks and uncertainties for our company include, but are not limited to: the Company's history of significant losses and its need to raise additional capital and its inability to obtain additional capital on acceptable terms, or at all; the Company's expectations regarding the timing and cost of commencing clinical trials with respect to tissues and organs which are based on its rhCollagen based Bioink and products for medical aesthetics; the Company's ability to obtain favorable pre-clinical and clinical trial results; regulatory action with respect to rhCollagen based BioInk and medical aesthetics products including but not limited to acceptance of an application for marketing authorization, review and approval of such application, and, if approved, the scope of the approved indication and labeling; commercial success and market acceptance of the Company's rhCollagen based products, in 3D bioprinting and medical aesthetics; the Company's ability to establish sales and marketing capabilities or enter into agreements with third parties and its reliance on third party distributors and resellers; the Company's ability to establish and maintain strategic partnerships and other corporate collaborations; the Company's reliance on third parties to conduct some or all aspects of its product manufacturing; the scope of protection the Company is able to establish and maintain for intellectual property rights and the Company's ability to operate its business without infringing the intellectual property rights of others; the overall global economic environment; the impact of competition and new technologies; general market, political, and economic conditions in the countries in which the Company operates; projected capital expenditures and liquidity; changes in the Company's strategy; and litigation and regulatory proceedings. Many of these factors that will determine actual results are beyond our ability to control or predict. For a discussion of the factors that may cause our actual results, performance or achievements to differ materially from any future results, performance or achievements expressed or implied in such forward-looking statements, see the "Risk Factors" section of included in our most recently filed Annual Report on Form 20-F. Existing and prospective investors are cautioned not to place undue reliance on these forward-looking statements, which speak only as of the date hereof.

The trademarks included herein are the property of the owners thereof and are used for reference purposes only. Such use should not be construed as an endorsement of such products.



About CollPlant

A regenerative and aesthetic medicine company

Developing innovative technologies and products for tissue regeneration and organ manufacturing

The Company's products and candidates are based on rhCollagen that is produced in genetically engineered tobacco plants

Strategic agreement with global, top-tier pharmaceutical company AbbVie

NASDAQ (CLGN), listed since 2018



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Collagen is an Essential Component of the Human Body

25% to 35%
of the whole-body protein content

The main structural protein in the extracellular matrix found in the body's organs and various connective tissues*

Ideal scaffolding molecule
for regenerative medicine



* (e.g. cartilage, bones, tendons, ligaments, skin and vasculature)



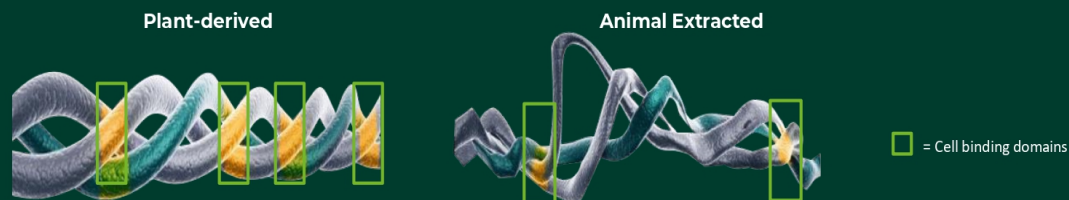
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Our Technology Platform Produces Human Collagen in Plants at Mass-Scale



rhCollagen: The Ideal Building Block for Regenerative Medicine

Clear advantages over tissue-extracted (animal-derived) collagen



Xeno-free:
sourced from tobacco plants

Better biofunctionality:
leads to faster tissue repair

Superior homogeneity:
allows for creating implants and biological inks with distinct physical properties

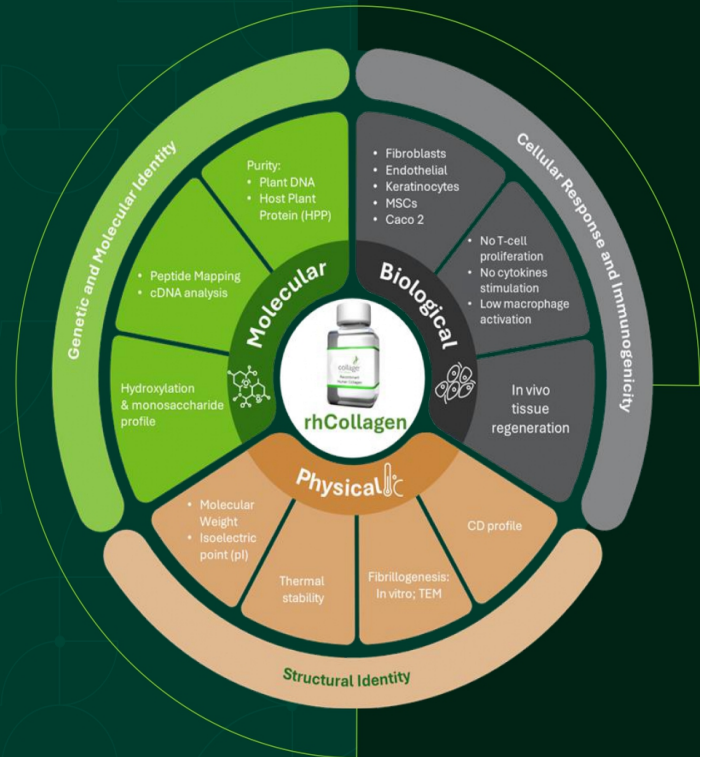
Improved safety;
does not elicit immune response that would cause implant rejection

rhCollagen: the Most Characterized Collagen in the Market

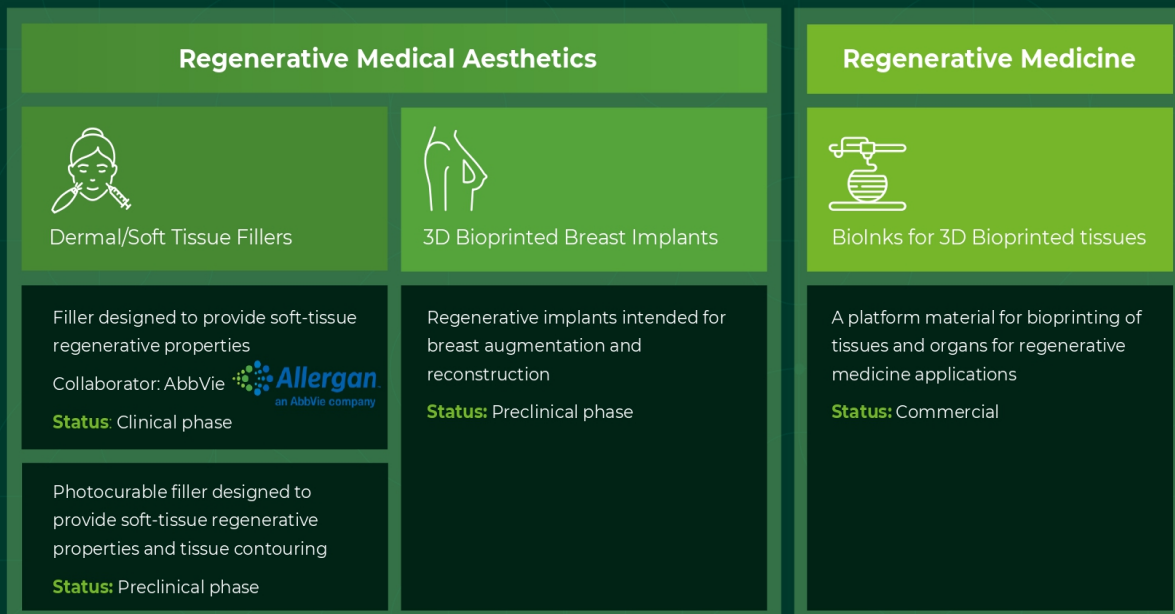
What makes CollPlant rhCollagen so unique?

- Genetically and structurally identical to human type 1 Collagen
- Non-immunogenic


Molecular and physical characterizations are included in the rhCollagen Master File (MAF) currently being assembled



Diverse Product Pipeline



How We Are Applying Our rhCollagen: Areas of Focus

Product	Use	Preclinical	Clinical	Commercial	Status/Partner
Aesthetic medicine					
Injectable tissue fillers *	Dermal/soft tissue fillers	<div style="width: 100%;"></div>	<div style="width: 100%;"></div>	<div style="width: 100%;"></div>	
Photocurable filler	Dermal/soft tissue fillers	<div style="width: 100%;"></div>	<div style="width: 100%;"></div>	<div style="width: 100%;"></div>	
Regenerative medicine					
Breast implants	Breast reconstruction and augmentation	<div style="width: 100%;"></div>	<div style="width: 100%;"></div>	<div style="width: 100%;"></div>	
Biolinks	Tissues, organs, drug discovery and tissue modelling	<div style="width: 100%;"></div>	<div style="width: 100%;"></div>	<div style="width: 100%;"></div>	



* AbbVie is collecting data and conducting a review of interim results from the first cohort of patients enrolled in the dermal and soft tissue filler clinical trials initiated in 2023 and next steps for the program are to be determined upon complete assessment.

Derma/Soft Tissue Fillers



Dermal Fillers: Market Overview

~5.3M

Hyaluronic Acid procedures in 2023 in the US¹

\$6.3B, 10.3% CAGR

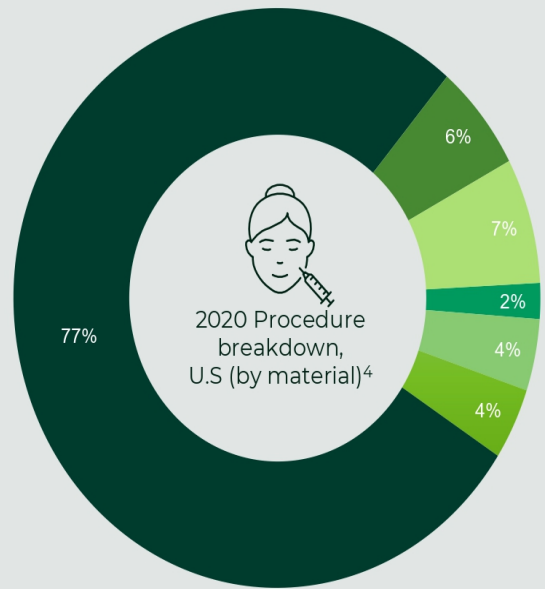
Global dermal filler market, 2023, CAGR 2023-2033²

\$100-\$250/unit

Cost per syringe³



¹ The American Society of Plastic Surgeons®, 2023 Procedural Stats Release
<https://finance.yahoo.com/news/dermal-filler-market-reach-16351000526.html>
www.medicalspare.com/juvederm-hydrate
² www.medicalspare.com/buy-juvederm-ultra-plus-xc



- Polymethyl methacrylate microspheres
- Polyactic acid
- Calcium Hydroxylapatite
- Fat
- Hyaluronic acid
- PRP

Photocurable Regenerative Dermal Filler

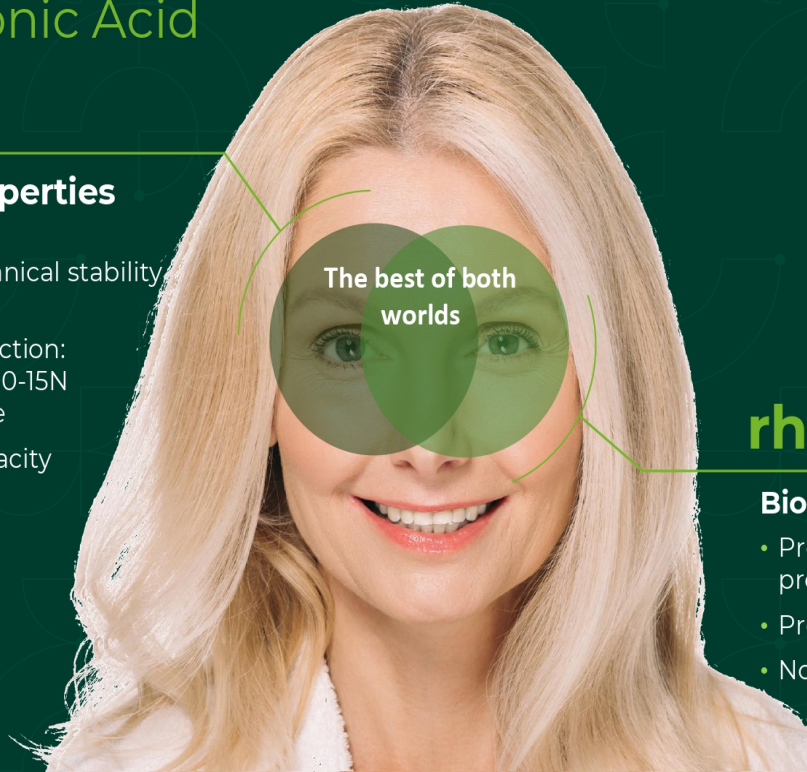


Combining the Advantages of Collagen and Hyaluronic Acid

HA

Physical properties

- Highly viscous: Provides mechanical stability after injection
- Convenient injection: 37-32G needle, 10-15N expression force
- High lifting capacity
- Transparent



The best of both worlds

rhCollagen

Biological properties

- Promotes cell adhesion and proliferation
- Promotes tissue regeneration
- Non allergic/non immunogenic

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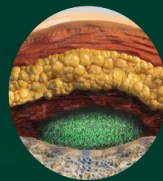
Introducing CollPlant State-of-the-Art Photocurable Regenerative Soft Tissue Filler

Injection



Photocurable filler comprised of rhCollagen and hyaluronic acid, injected in a semi-solid phase, hardened in-situ by light illumination

Sculpting



Photocuring in-situ



Filler Features:

Enhanced lifting capacity

Adhesion and retention to the host tissue

Allows for contouring for a natural looking outcome

Allows for regeneration and rejuvenation, extending effects and satisfaction with each injection

Contouring and regeneration may apply to other body areas



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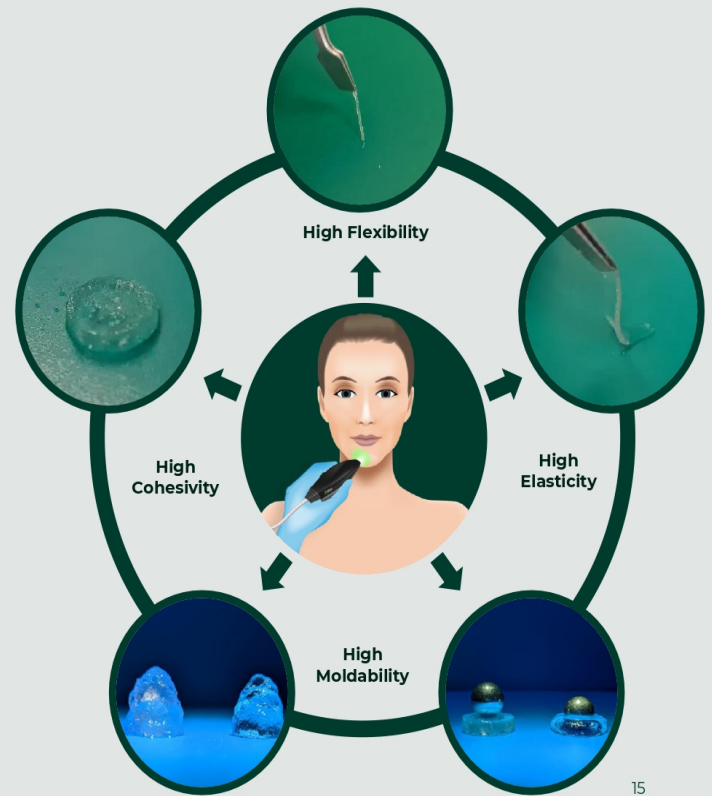
A Photocurable Dermal Filler would be an **all-in-one innovation:**

Flexibility
compliance with facial expression

Moldability
precise contour definition

Cohesivity
maintains the defined shape

Elasticity
Recovers original shape
(aligned with facial expression)



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KOL Testimonial* Dr. Jason Bloom MD, FACS BLOOM FACIAL PLASTIC SURGERY

- “The first injectable moldable implant”
- “Provides cohesivity and structural support that far exceeds anything in the market”
- “A customizable implant that can be implanted in the office with a minimally invasive procedure.”
- “Huge advance in the dermal and soft tissue market, and facial plastic surgery”
- “Long lasting results”
- “Game changer for facial plastic surgery and soft tissue filler”

* Following Use of Photocurable Dermal Filler



Use is experimental only at physician's discretion.
CollPlant's photocurable filler is not yet FDA-approved.

Full video at: <https://www.youtube.com/watch?v=D114gdmrdek>



<https://www.bloomfacialplastics.com/>

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KOL Testimonial

Dr. Sachin M. Shridharani, MD, FACS
 Director - LUXURGERY (New York, NY)

- “It changes the overall approach of long-lasting facial sculpting”
- “Transforming an injectable filler into a solid-like gel”
- “It forms an elastic, cohesive and integrated piece”
- “Increased G', cohesivity, longevity, tissue regeneration”
- “Compatible for off-the-face areas”
- “Nothing like this is observed with available fillers”

* Following Use of Photocurable Dermal Filler



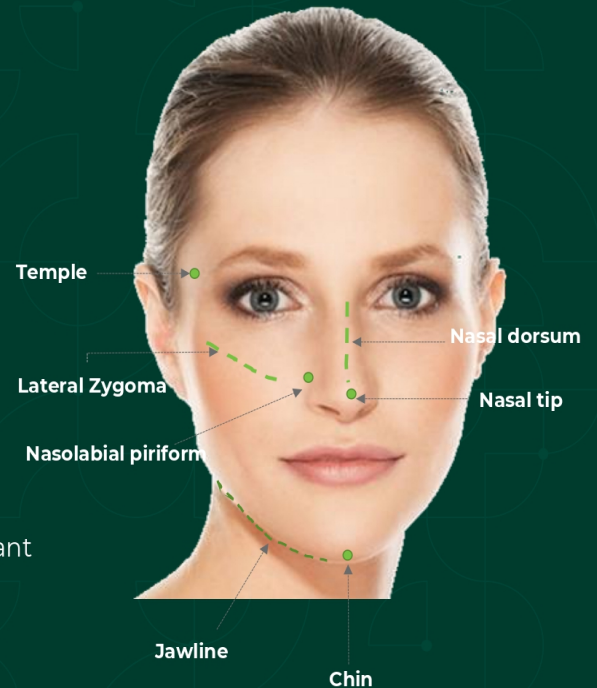
Use is experimental only at physician's discretion.
 CollPlant's photocurable filler is not yet FDA-approved.



<https://www.luxurgernyc.com/dr-shridharani/>

Photocurable Dermal Filler: Injection Areas

Injection Areas	Tissue Layer
Temple	Intradermal/Subdermal
Mid face: lateral zygoma	Supraperiosteal
Mid face: nasolabial piriform	Supraperiosteal
Chin	Supraperiosteal
Nasal tip	Subdermal
Nasal dorsum	Supraperiosteal
Jawline	Supraperiosteal



The product's high integrity and cohesivity demonstrate significant advantages in deep supraperiosteal and subdermal layers



3D-bioprinted Regenerative Breast Implants



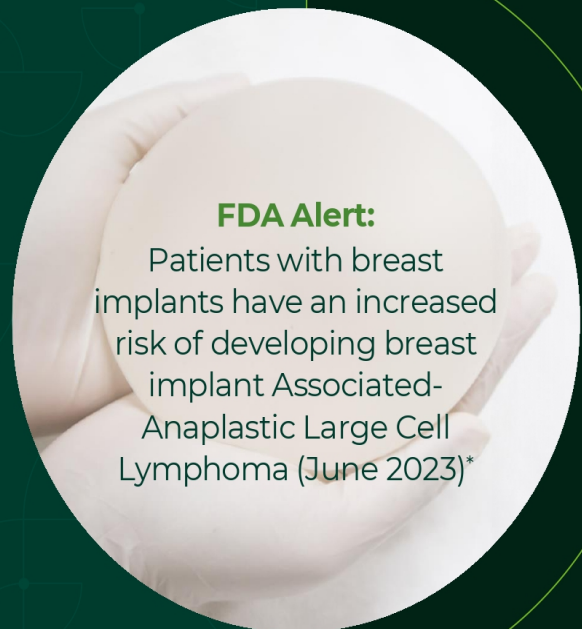
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Revolutionary Option: The Ability to Regenerate Breast Tissue

No regenerative breast implant exists

Safety issues exist with silicone breast implants



FDA Alert:

Patients with breast implants have an increased risk of developing breast implant Associated-Anaplastic Large Cell Lymphoma (June 2023)*



* <https://www.fda.gov/medical-devices/breast-implants/medical-device-reports-breast-implant-associated-anaplastic-large-cell-lymphoma>

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Breast Implant Market Overview

\$3.0B Market

worldwide (2024)¹

\$ 5-10K Cost

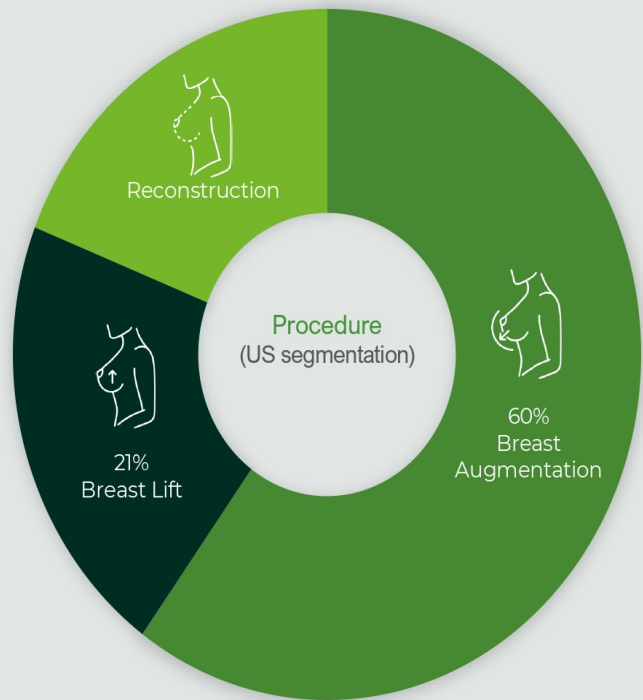
per full procedure in US²

~2,200,000

Breast implant procedures WW (2022)³



¹ www.imarigroup.com/breast-implant-market
² www.webmd.com/bsauy/cosmetics/procedures/breast-augmentation#1
³ <https://finance.yahoo.com/news/global-breast-implants-market-report-133700143.html>



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The Challenges in Development of a Regenerative Breast Implant



Patient

- Natural feeling (dynamic conditions)
- Affordable cost
- Patient-to-patient variability (e.g., age, fat tissue)



Plastic Surgeon

- Implant handling
- Implant administration
 - Incision size
 - Simple procedure



Tissue

- Soft tissue regeneration
- Degradation kinetics



Safety

- Non-immunogenic
- Fatigue-free



Mass production

- Scalable production process



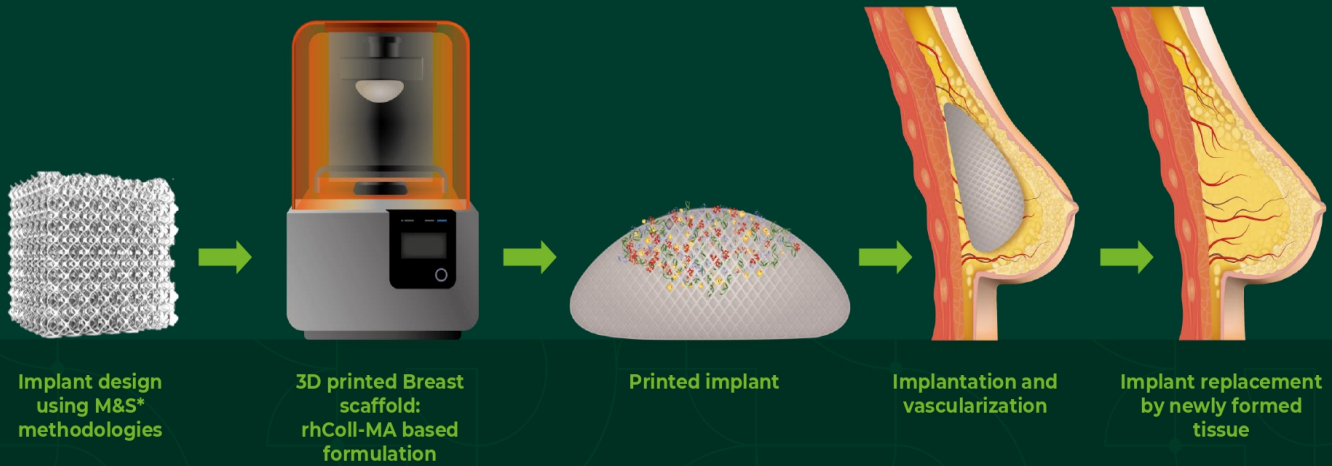
Regulatory

- No Draft Guidance
- New technological building blocks



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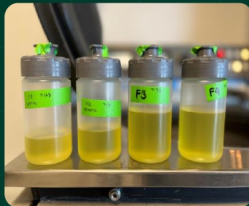
CollPlant's 3D Bioprinted Breast Implants



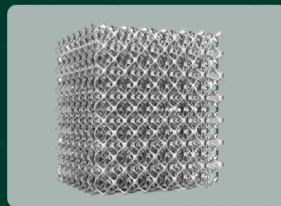
* M&S – Modeling & Simulation

New Approach for Implant Design

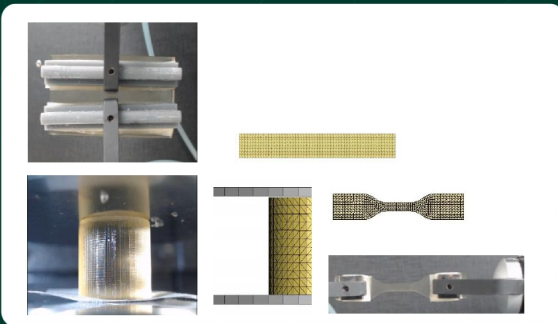
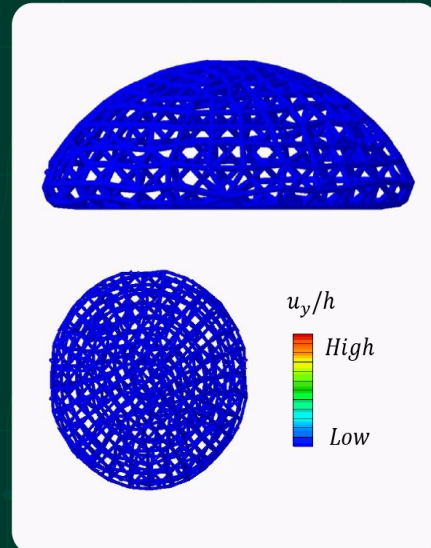
Material



3D Model



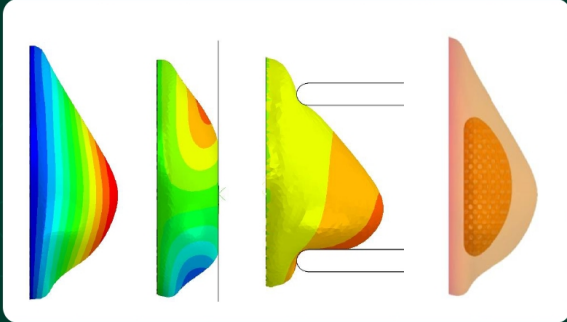
FEA* Simulation



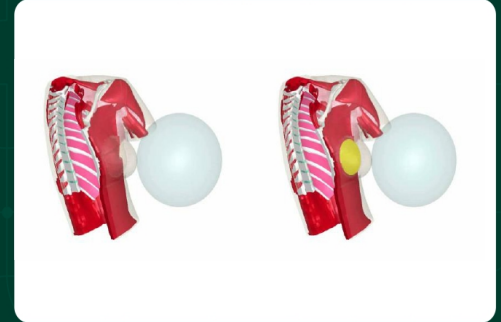
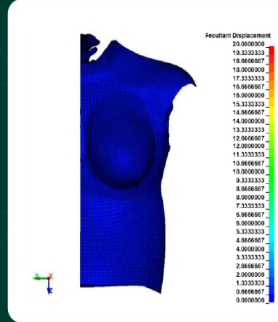
*Finite Element Analysis

Simulations of Real-Life Scenarios

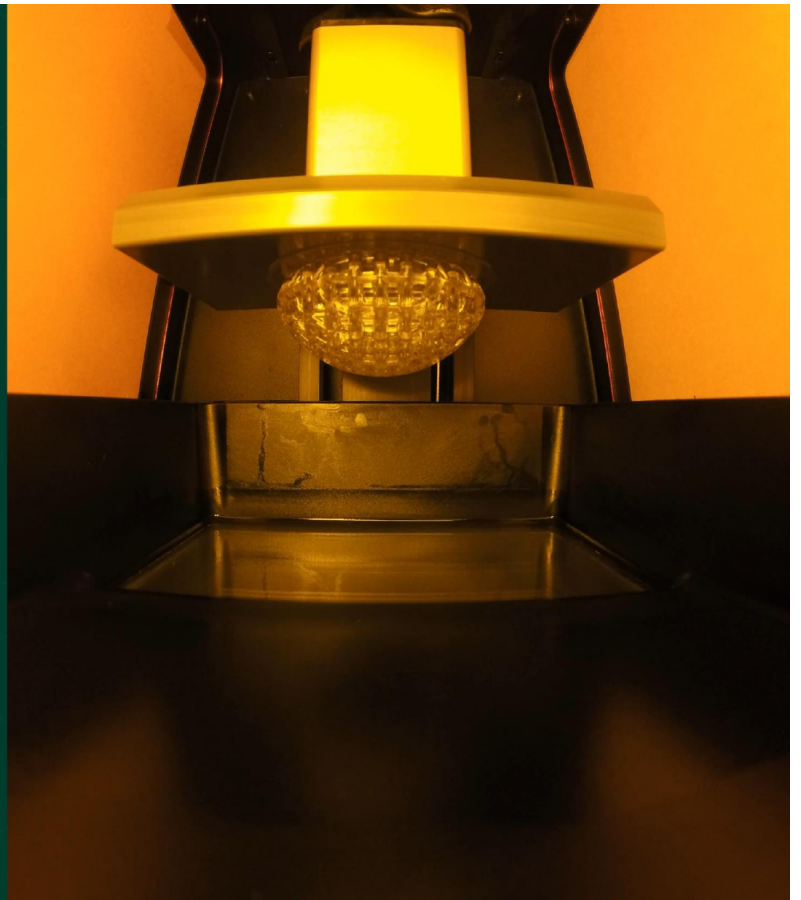
Breast Simulations



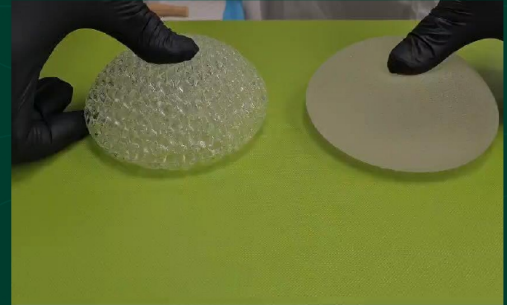
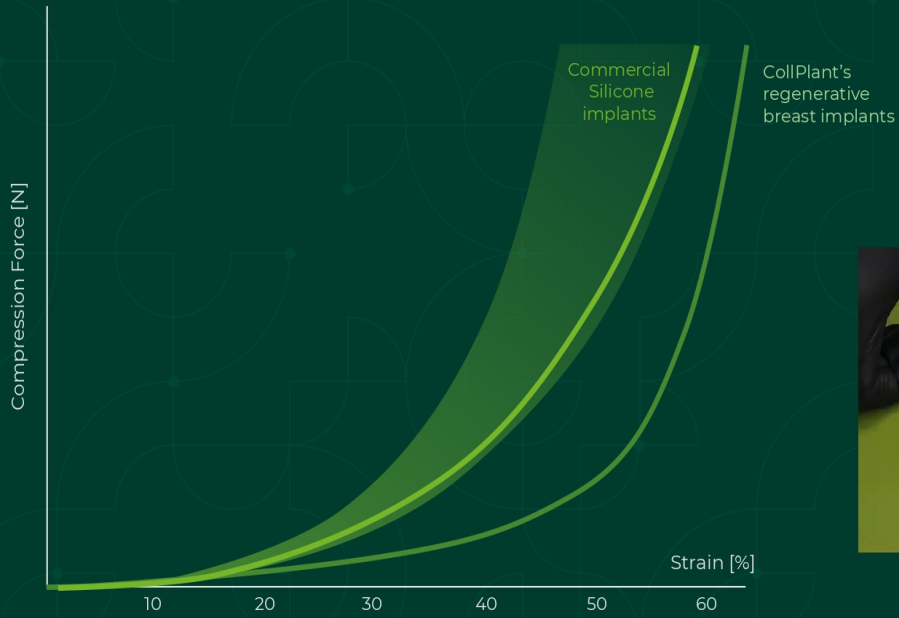
Human Body Model Simulations



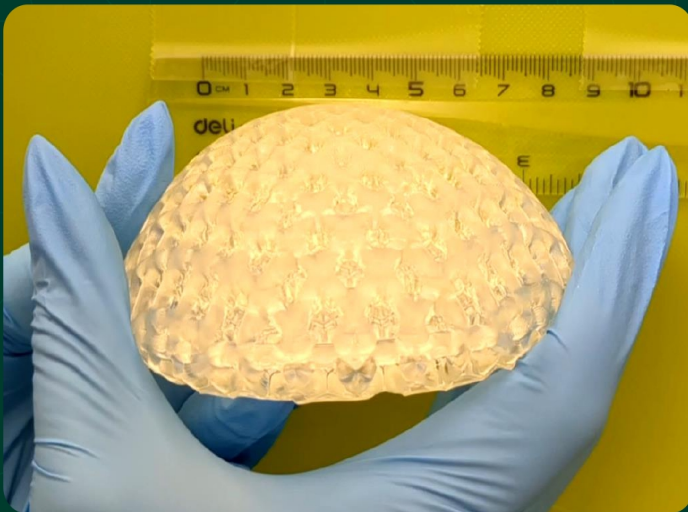
3D Bioprinting of a Regenerative Breast Implant with rhCollagen BioInk



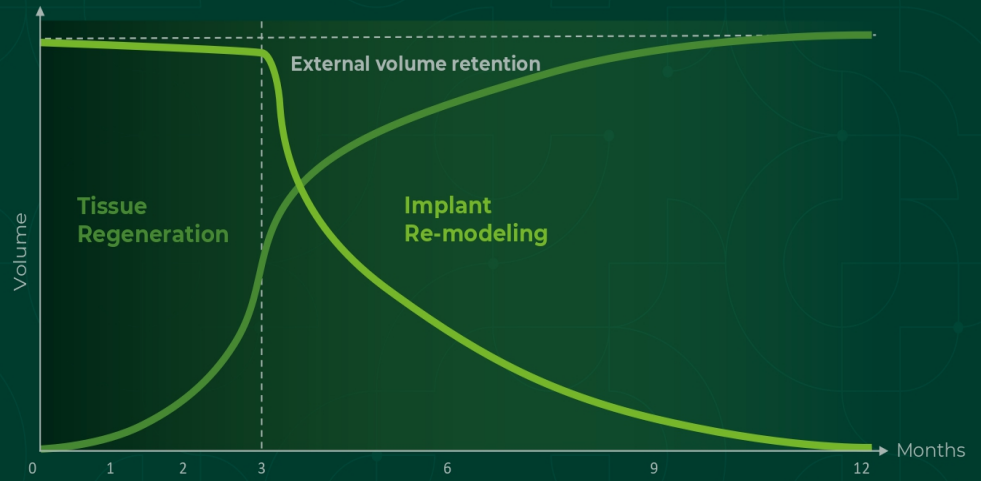
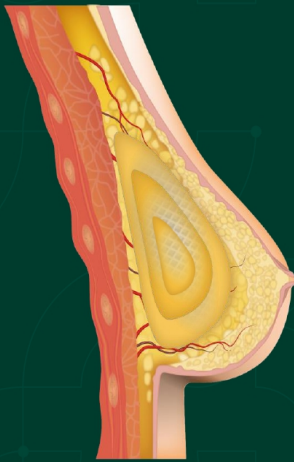
Controlling the Mechanical Properties



Simple Implantation Procedure

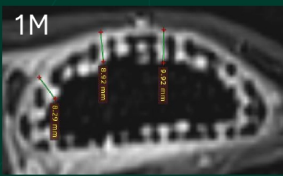


Estimated Tissue Regeneration and Implant Re-Modeling



Large Animal Study Results

Tissue growth MRI



Blood vessels MRI



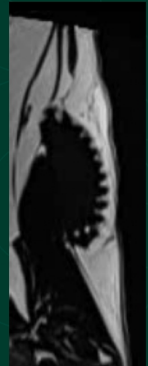
Blood flow U/S



Explant Mechanical Test



Fat tissue Penetration MRI



rhCollagen-based Bioink Platform for Biofabrication

Animal-free: excellent safety profile, non immunogenic

Optimal rheology at room temperature

Cytocompatible, Biofunctional

Compatible with major printing technologies

Mass production- consistency robustness

High homogeneity reproducibility



Seasoned Management Team with Engineering, Pharmaceutical, Device and Life Sciences Experience



Yehiel Tal
CEO

Regentis Biomaterials
ProChon Biotech
Kulicke & Soffa Industries



Eran Rotem
Deputy CEO & CFO

Tefron, CFO (NYSE, TASE)
Healthcare Tech., CFO (NASDAQ) & Gamida, E&Y



Elana Gazal, PhD
VP R&D

Neuroderm (now Mitsubishi Tanabe)
Waters IS Foamix (now Wyne)
Beckman Coulter



Oren Fahimipoor
VP Operations

Omrix Biopharmaceuticals (J&J)
Teva Pharmaceutical Industries Ltd



Philippe Bensimon
PharmD VP RA/QA/CA

Maquet Getinge
3M Medical



Hadas Dreier-Horowitz
VP HR

Elbit Systems
Teva Pharmaceutical Industries Ltd
Mul-T-Lock



Our Goals through 2025

Dermal fillers: Continue to advance development

Commercial-sized breast implants: Expand studies in large animals to generate additional safety and efficacy data in support of commercialization

rhCollagen-based bioinks: Continue to expand our commercial portfolio of

Collaborations and Partnerships: Form new collaborations with industry leaders to co-develop therapeutics and medical applications using our rhCollagen

ESG: Continue operations in line with Climate Action, energy efficiency, sustainable agriculture, waste management, talent engagement, sustainable sourcing



Investment Summary



Pioneering Proprietary, Plant-Based Technology Platform

The only commercially viable technology that can produce truly human collagen at mass scale and without reliance on animal tissue



Addressing Multi-billion-dollar markets

Innovative rhCollagen technology initially focused on medical aesthetic applications; differentiated, transformative, next-generation soft tissue filler is regenerative



Broadly applicable, clinically validated technology

Ideal building block/scaffolding molecule for regenerative medicine that has clear benefits over tissue-extracted collagen and the potential to create first-in-class products, extend product life cycles and expand applications in other areas of medicine



Strategic agreement with global top-tier pharmaceutical company AbbVie

Allows for up to \$103M in milestone payments plus additional royalties on sales



Highly seasoned management team

With experience spanning the areas of bioengineering, biomaterials, broad life sciences, pharmaceuticals and devices



In-house, sustainable production capabilities

In-house cGMP production facility that utilizes proprietary manufacturing processes [under environmentally responsible guidelines]





Thank you!