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# MED TECH

## OUTLOOK

EUROPE SPECIAL

REGENERATIVE  
MEDICINE AND  
SURGERY

EDITION



TOP  
**REGENERATIVE  
MEDICINE  
AND SURGERY**  
SOLUTIONS  
PROVIDER  
IN EUROPE  
2023

**Image Regenerative  
Clinic**

Awarded By  
**MEDTECH OUTLOOK**



## Image Regenerative Clinic



TOP 10  
**REGENERATIVE  
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**MEDTECH OUTLOOK**

*The annual listing of 10 companies in Europe that are at the forefront of providing  
Regenerative Medicine and Surgery solutions and transforming businesses in the region*

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# IMAGE

REGENERATIVE CLINIC

## Cultivating Health, Beauty, and Well-Being with Lipogems System

Image Regenerative Clinic is the first Italian regenerative clinic specializing in regenerative medicine, from reconstructive surgery to the latest generation aesthetic treatments. It was founded by Professor Carlo Tremolada, a leading figure in the field of plastic surgery and the inventor of the Lipogems method, which is used in over 30 countries around the world to treat pathologies, relieve pain, and regain well-being.

Lipogems can be used in other fields. In Italy, one of the world's leading centers treats Crohn's disease, a challenging condition involving bowel inflammation and the development of difficult-to-heal rectal fistulas. The center initially conducted clinical trials for a biological drug. Still, they ventured into Lipogems without prior findings. It proved as effective as the specific drug in treating fistulas, indicating a considerable acceleration in the healing process.

### Lipogems for Complete Tissue Regeneration

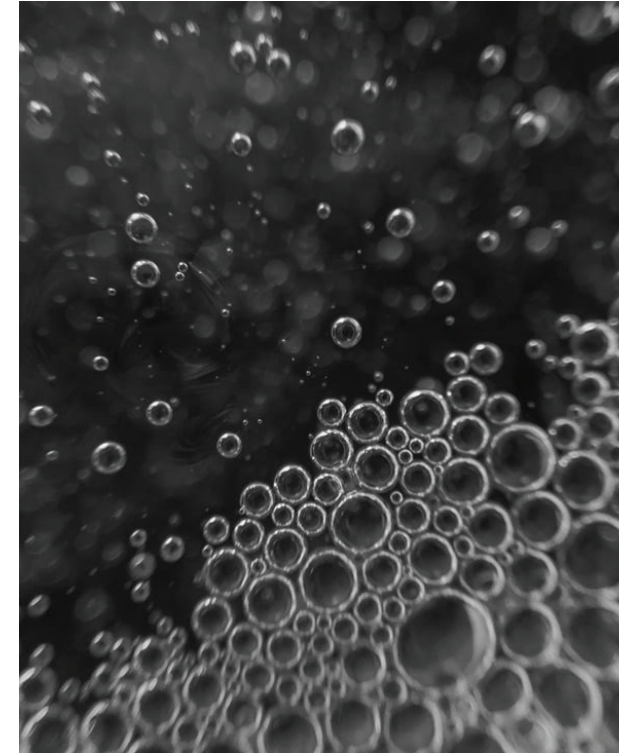
"Lipogems is used to graft microfragmented fat, permanently increasing the microvascular density in the treated area. One of the most prevalent issues we address is osteoarthritis, a common skeletal problem," says Professor Tremolada.

A significant portion of the aging population is affected by osteoarthritis. Lipogems has the capability to actually reverse the condition. For instance, in the case of a damaged knee joint, joint replacement surgery seems inevitable, but the use of Lipogems within the joint can fully heal and reverse the degeneration. This approach boasts a staggering success rate: in approximately 90 percent of patients with early-stage osteoarthritis, the method has proven to be highly effective, and it remains a valuable option even for those facing more advanced conditions, with a success rate of around 60 percent.

Another significant domain where Lipogems shines is aesthetics. Injecting it just beneath the dermis can lead to measurable rejuvenation. Individuals who undergo this treatment experience continuous skin improvement for up to four to five years, effectively reversing the aging process. Lipogems is also a valuable tool in surgeries. When used in facelift procedures, it results in a swifter recovery with significantly reduced swelling.



Carlo Tremolada,  
Scientific Director &  
Founder



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**Lipogems is used to graft microfragmented fat, permanently increasing the microvascular density in the treated area. One of the most prevalent issues we address is osteoarthritis, a common skeletal problem**

### A Tale of Dedication and Perseverance

The Lipogems method was not created in a single day; it is Professor Tremolada's vision and hard work that has led this process toward success.

While working as a plastic surgeon at the San Paolo Hospital in Milan, he was dealing with the challenge of breast reconstruction after mastectomies. Attempting autologous reconstruction with fat transfer was highly unpredictable. In other words, trying to reconstruct the breast using the patient's own fat was a hit-or-miss affair. This drove Professor Tremolada to look for a more consistent method for autologous reconstruction.

"My idea was to modify the conventional fat grafting technique to make it more reliable. The smaller the piece of tissue we could graft, the higher the chances of successfully revascularizing it," says Professor Tremolada.

However, he faced the challenge of using a large cannula for liposuction, as it could damage the fat. This is why Professor Tremolada decided to develop an extremely fine cannula that could work without destroying the fat.

He used a closed system with physiological saline to reduce the small fat pieces with water pressure without damaging the cells. This ensured more successful fat grafting, especially in cases involving radiation damage to the skin. He later used the method in hand surgery,

orthopedic, plastic surgery, and even to treat common issues like arthritis at the base of the thumb.

At this point, professor Tremolada gained recognition in the field, particularly through a colleague in the U.S. who introduced him to Professor Arnold Caplan, a pioneer in mesenchymal stem cells and regenerative medicine.

"We collaborated in his lab, and Professor Caplan used the Lipogems procedure for himself and his wife, achieving significant clinical results. And this was a turning point," says Professor Tremolada.

This incident resulted in the significant recognition of Image Regenerative Clinic. The Lipogems method also received FDA approval after successful trials. Since then, the horizon of Professor Tremolada's patented technique has only extended. Today, Lipogems is being used in the veterinary medicine realm as well for the treatment of polo horses, which engage in a highly intense and physically demanding sport.

Lipogems is quickly becoming an invaluable tool in the field of regenerative medicine, and in the coming years, the world will witness more use cases of it. And interestingly, this ground-breaking treatment option is the result of a single man's dedication to change the world and drive a more fulfilling life for patients. 