

NEWSLETTER



One year of TENTACLE: finding solutions for colorectal diseases

One year ago, TENTACLE started with a clear ambition: to explore **how in situ 4D bioprinting could open new, minimally invasive pathways** for the treatment of colorectal diseases. Today, as the project marks its **first anniversary**, we reflect on **a year dedicated to building strong scientific foundations**, aligning multidisciplinary expertise, and preparing the ground for future technological development.

A shared journey after 12 months

Over the past year, **the TENTACLE consortium has worked closely to define common research directions**, strengthen collaboration between partners, and translate a **bold vision into a structured research and innovation pathway**. This first phase has been essential to ensure that **future developments are grounded** in solid scientific, clinical, and technological frameworks.

[Read more here.](#)

Past Events

ESB 2025 - Turin (September)

◆ **Dr. Irene Chiesa** (University of Pisa) presented the Project.

Biofabrication 2025 - Warsaw (September)

◆ **Prof. Giovanni Vozzi** (University of Pisa) and **Prof. Ayça Bal Öztürk** (AdBioInk) co-chaired the symposium "Bioprinting Approaches in EU Projects" featuring several EU-funded initiatives.

◆ **Prof. Jürgen Groll** (University of Würzburg), TENTACLE's coordinator, presented "Innovative in situ 4D bioprinting for regeneration of colorectal mucosa and submucosa".

FEMS EUROMAT 2025 - Granada (September)

◆ **Prof. Chiara Vitale Brovarone** (Politecnico di Torino) delivered the talk "Novel biomaterial ink formulations and approaches for in situ bioprinting and regeneration of colorectal mucosa and submucosa".

◆ **Dr. Jacopo Barberi** (Politecnico di Torino) presented the poster "Spray-dried polymeric carriers for in-situ mucosal and submucosal regeneration in colorectal disease". Highlighting TENTACLE's innovation for minimally invasive regenerative therapies.



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First stakeholder workshop

The **University of Turin** hosted **TENTACLE's first stakeholder workshop**, bringing together health professionals, surgeons, and citizens. This inaugural event marked a key milestone for the project: it opened a **space to share TENTACLE's vision beyond the consortium** and to engage directly with those who will ultimately benefit from its outcomes. The workshop provided **valuable insights into the priorities of both medical experts and the wider community**, helping ensure that TENTACLE evolves in a direction that truly **meets real needs** and has the potential to make a **meaningful impact on people's lives**.

[Read more here](#)

First TENTACLE video in production

Alongside research activities, TENTACLE is investing in **communication and public engagement**. The production of the **project's first video is currently underway**, with the goal of presenting the project's vision, objectives, and interdisciplinary nature in a clear and accessible way. **The video will offer a closer look** at how regenerative medicine, bioprinting, and minimally invasive surgery **come together within TENTACLE**.

Early technology developments: exploring feasibility

As the project progresses, TENTACLE has begun **preliminary internal activities** focused on the integration of **bioprinting concepts within colonoscopic procedures**. These early-stage explorations are aimed at **assessing feasibility** and system-level considerations and represent initial steps toward **future technological development**. At this stage, **activities remain exploratory and internal**, with **further communication** planned **once development advances** and approvals are in place.



Meet the team

At TENTACLE, we believe that **people are at the heart of everything we do**. That's why we've created a **new section on our website: Our People**, where you can **meet the individuals who make TENTACLE possible**. **Meet OUR PEOPLE!**

Looking ahead

With its first year completed, **TENTACLE now enters a new phase** focused on development, testing, and continued knowledge sharing. **The consortium remains committed** to advancing **patient-centered, regenerative solutions** for **colorectal diseases** through collaboration, innovation, and responsible research.

Thank you to all partners and contributors for their dedication during this first year. **Stay connected** with us on **LinkedIn** and through our website to **follow the next steps of the TENTACLE journey**.

 **See you in the next issue of the TENTACLE Newsletter!**

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Upcoming Events

[BPC 2026 – Bordeaux Polymer Conference](#)

[June 1–4, 2026 – Bordeaux, France | Talence Campus](#)

[ETH Zürich – 2026 Summer School on Light-Based 3D Printing](#)

[June 21–26, 2026 – Monte Verità, Ascona, Switzerland | Congressi Stefano Franscini](#)