MagBIO

CONSORTIUM newsletter #1

OCTOBER 2026

MagBIO research and network update

MagBIO is an international research and innovation project funded by the European Union's Marie Skłodowska-Curie Actions Staff Exchange programme. It brings together 18 partners across Europe and the USA to develop magnetobots for more precise diagnosis and treatment of solid tumours.

MESSAGE FROM THE COORDINATOR

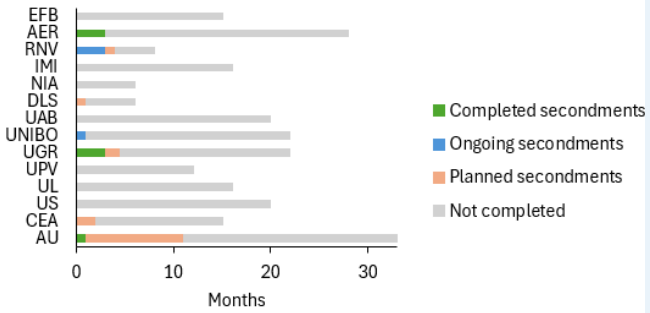
I am delighted by the strong start MagBIO has made. Our international exchanges, training activities and growing visibility are already strengthening collaboration across the consortium. I look forward to seeing this shared expertise advance our magnetobot platform and its potential contribution to more precise cancer care.

Alfred Fernandez-Castane, MagBIO Coordinator

Project objectives

MagBIO is developing magnetotactic bacteria as microscopic, magnetically guided vehicles that can carry therapeutic cargo into the low-oxygen regions of solid tumours. The project combines targeted delivery with diagnostic imaging in a single theranostic platform. It also develops scalable, safe and sustainable manufacturing approaches and trains researchers through exchanges between academic and industrial partners.

Research exchanges across the consortium



MagBIO secondments are under way

Researchers have completed the first exchanges and further placements are in progress across the network. These secondments allow partners to share methods, access complementary facilities and connect laboratory research with industrial application.

Deliverables and project infrastructure

P-DEC

Submitted

PROJECT WEBSITE

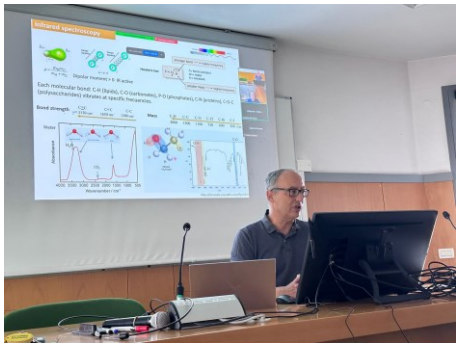
Now live at magbio-project.org

DATA MANAGEMENT PLAN

Partner inputs and finalisation required by 30 November 2026.

Training and knowledge exchange





Bioprocessing Training School and Webinar

Aston, UNIBO and Aeris delivered the programme on 25–26 June 2026.

Mineral characterisation seminar

UGR and Renuvait delivered the seminar on 22 July 2026 for researchers across the consortium.

NEXT TRAINING SESSION

The two-hour introductory Safe and Sustainable by Design webinar will take place on Friday 20 November 2026 at 10:00 UK time. MagBIO partners Europe for Business and Nanotechnology Industries Association will introduce the SSbD framework, sustainability and life-cycle assessment, the regulatory landscape and the MagBIO technical case. The session is aimed particularly at postdoctoral and early career researchers.

Communication and dissemination

Recent activity has introduced MagBIO to public and specialist audiences through press coverage, webinars and international conference participation.



MagBIO members at the 9th International Meeting on Magnetotactic Bacteria in Qingdao, China, 28 June to 2 July 2026.

- Press coverage from University of Granada, Aston University and University of Bologna.
- Aston delivered a public MTB bioprocessing and digitalisation webinar on 24 June.
- Coverage in the Italian newspaper Il Fatto Quotidiano on 2 July.
- Presentations from Aston University, Sheffield University and University of the Basque Country researchers at MTB2026. Alfred Fernandez-Castane and Munitta Muthana delivered invited talks.

The MagBIO website is live

Visit **magbio-project.org** to explore MagBIO's research, discover the organisations behind the programme and follow news from across the partnership.

ABOUT MAGBIO

Learn how magnetotactic bacteria could support targeted treatment and diagnostic imaging.

CONSORTIUM

Meet the 18 academic, research and industry partners contributing complementary expertise.

NEWS AND RESOURCES

Follow events and project updates, with training materials and webinar recordings added as the programme develops.

Dates for your diary

20 November 2026, 10:00 UK: SSbD webinar
30 November 2026: DMP and training-school outlines
14 December 2026: Next Programme Committee meeting
Date TBC in 2027: Midterm meeting in Barcelona

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