

“Regenerative Technologies” Lab

Profiles of Lab members

Leonardo Ricotti – Associate Professor, Principal Investigator



Leonardo Ricotti is Associate Professor of Bioengineering and Biorobotics at SSSA and head of the “Regenerative Technologies” Lab at the BioRobotics Institute, composed of ~ 20 members. He holds a M.Sc. course on “Micro-nano robotics and biomaterials” and a PhD course on “Microfabrication through soft lithography and SEM-AFM characterization”. He has supervised or co-supervised 14 PhD students, working on therapeutic micro-devices, biomaterials and artificial organs, and 37 M.Sc. theses on bioengineering topics. He carries out innovative research efforts at the interface between different disciplines, such as mechatronics, materials science, molecular biology and micro/nano-technologies and he aims at creating innovative (and potentially disruptive) “match points” between different disciplines. He is co-author of 92 scientific publications (69 on ISI journals), 6 book chapters on micro-nano systems for biomedical applications. He is also inventor of 13 patents. He is Associate Editor of the IEEE Transactions on NanoBioscience and of the IEEE Transactions on Medical Robotics and Bionics. In 2012, he received the “Massimo Grattarola” award for the best PhD Thesis in bioengineering (Thesis title: “Development of bio-hybrid actuators”). In July 2014, he received the European Biomaterials and Tissue Engineering Doctoral Award. In 2018, he received regional and national prizes as member of the spin-off company Relief s.r.l. He currently coordinates an European project (ADMAIORA - ADvanced nanocomposite MAterials fOr in situ treatment and ultRASound-mediated management of osteoarthritis), funded in the H2020 framework and is PI of other projects in which Scuola Superiore Sant’Anna participates as a partner.

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Lorenzo Vannozzi – Technical Project Manager



Lorenzo Vannozzi is a technologist at SSSA, within the “*Regenerative Technologies*” Lab of the BioRobotics Institute. In 2013, he received a Master degree in Biomedical Engineering at University of Pisa, with a thesis entitled “Design and development of a 3D system for bio-hybrid actuation” and in 2017 he obtained a Ph.D. in Biorobotics, defending a thesis entitled “Novel actuated microsystems”. In 2019, he has become technologist in the “*Micro-nano-bio systems and targeted therapies*” Lab of the BioRobotics Institute. His research activity deals with the exploration of 3D biofabrication technologies, including 3D bioprinting, and the design and development 2D thin films for different applications (e.g. drug delivery, regenerative medicine). He has an interdisciplinary approach involving materials science, mechatronics and molecular biology. He supported the teaching activity of Prof. Leonardo Ricotti within the M.Sc course on “Miniaturized therapeutic and regenerative technologies”, with practical classes on material synthesis and characterization. He is author or co-author of 23 scientific publications. In 2018, he received the “Julia Polak European Doctorate Award” from the European Society of Biomaterials committee. He is or has been involved in different Italian and European projects (ADMAIORA, MOTU, M2Neural and GeT Small), for which he provided important technical contributions.

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Andrea Cafarelli – Post-Doc Fellow



Andrea Cafarelli is a professional affiliate at SSSA, within the “*Regenerative Technologies*” Lab of the BioRobotics Institute.

He obtained a M.Sc. Degree in Biomedical Engineering at University of Pisa in 2013 (full marks, cum laude) and in June 2017 the Ph.D. in Biorobotics (full marks, cum laude) at the BioRobotics Institute of Scuola Superiore Sant’Anna (SSSA), with a thesis regarding innovative therapeutic applications of ultrasound for targeted therapies.

The scientific activity has been characterized from the beginning by a strongly interdisciplinary and curiosity-driven approach. This allowed him to carry out innovative research efforts at the interface between different disciplines, such as materials science, biotechnologies, robotics, ultrasound imaging and therapeutic ultrasound. In particular his main expertise are: acoustic characterization of ultrasound fields, system design for HIFU and LIPUS applications, measurement of acoustic properties of materials and tissues, investigation of physical effects due to the interaction between ultrasound waves and tissues.

From 2019 he is co-founder of River Global Scientific Lab srl, a spin-off company of Scuola Superiore Sant’Anna dedicated to technological advances in high intensity focused ultrasound technology for cancer treatment.

He is author or co-author of 21 scientific publications, and he is or has been actively involved in several Italian and European projects (ADMAIORA, FUTURA, FUTURA2020, M2NEURAL, MICROVAST, IMMUNIVERSE).

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Enrico Catalano – Post-Doc Fellow



Enrico Catalano is a Post-Doc Fellow in Biorobotics Institute at SSSA, within the “Regenerative Technologies” Lab of The BioRobotics Institute, involved in the research project ADMAIORA funded under the Horizon 2020 EU Framework Programme.

He graduated in Medical Biotechnology and Molecular Medicine. He is Biotechnology Scientist, Nanomedicine researcher and Biologist. He has broad scientific interest in Nanotechnology, Regenerative medicine, Tissue Engineering, Molecular Medicine and Biology.

He has obtained his PhD in Biotechnologies for human health at University of Piemonte Orientale (Italy) with a project for the biocompatibility of iron-oxide nanoparticles and application of nanomedicine for anticancer therapies. His research interests are related to biological and physicochemical characterization of nanoparticles, development of new solutions of targeted nanomedicine and nanoimmunotherapy for cancer, design of biomaterials and regenerative medicine applications.

From 2016 – March 2020 he was Marie-Curie Scientia Fellows postdoc at University of Oslo with a project entitled: “New therapeutic approaches for personalized breast cancer nanomedicine”. In 2014 he was awarded with the ImmunoTools special Award 2014 for “The role of the immune microenvironment in tumor progression”.

In 2016 he was appointed for "NanoInnovation Got Talent" to young nanotechnology researchers awarded by the Bracco Foundation during NanoInnovation 2016 Conference. In 2018 he was selected as one of the top 500 worldwide young scientists to participate in the 68th Lindau Nobel Meeting in Medicine&Physiology.

In 2020 he was nominated like 8th Heidelberg Laureate Forum Young Researcher 2021 – selected in a worldwide competition between 224 participants from natural sciences, mathematics, computer science

He received also the Certificate of Award MARIE SKŁODOWSKA-CURIE Fellowship from European Union Commission. He has authored 37 scientific publications on International Journals and conference proceedings in the field of nanomedicine and tissue engineering, including 5-chapter books, he has obtained 40 Grants and awards and 2 International Patents.

Lorena de los Angeles Guachi Guachi - Post-Doc Fellow



Lorena is a Post-Doctoral Fellow at The BioRobotics Institute of Scuola Superiore Sant'Anna. Her current research activity concerns the development of tissue segmentation methods for embedded systems.

Lorena received her BSc in Systems Engineering from Escuela Superior Politécnica de Chimborazo, Ecuador. From 2008 to 2013 she worked for Smartwork S.A. and Produbanco S.A. Quito, Ecuador, as software developer and systems manager, respectively until she joined into University of Calabria as PhD student in 2013. She undertook her doctoral internship at University of Amsterdam, Netherlands. In 2017, she obtained a PhD in Science and Technologies of Complex Systems from the University of Calabria, Italy, with a thesis entitled “Background subtraction for moving object detection”, the same year, Lorena started her work as an Associate Professor-Researcher at the School of Mathematical and Computational Sciences at University of Yachay Tech, Ecuador. She is author or co-author of 12 scientific publications.

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Dario Lunni – Post-Doc Fellow



Dario Lunni is a Post-Doc Fellow at the BioRobotics Institute of Scuola Superiore Sant'Anna.

In 2016 he received a Master's Degree in Mechatronics and Robotics at Politecnico di Milano with a thesis related to control systems for aerial vehicles. From 2016 to 2020 he carried out his PhD at the BioRobotics institute in the "Bio-inspired Soft Robotics" group where he carried out research activities in the field of smart materials. In particular, his research focused on the development of novel manufacturing techniques for the integration of electrospun nanofibers in soft systems.

His current research activity concerns the design and development of automatic mechatronics systems for laboratory automation.

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Daniele Guarnera – Post-Doc Fellow



Daniele Guarnera is a Post-Doc Fellow at the BioRobotics Institute of the Scuola Superiore Sant'Anna.

He got his Master Degree in 2015 at Politecnico di Torino discussing a thesis on the interaction between pantograph and rigid catenary developed at Universitat Politecnica de Catalunya. In 2019 he got his Ph.D. at Politecnico di Torino, defending the thesis '*Refined one-dimensional models applied to biostructures and fluids*'. The Ph.D. was carried out within the Mul2 research group, under the supervision of Professor Erasmo Carrera and focused on the development of advanced structural and fluid-dynamical models applied to biomechanics. In the last months of the Ph.D. he developed a project related to the 3D bioprinting and mechanical characterization of digital materials at the University of Massachusetts. Recently, he got a grant at the Università di Catania for the FE assisted characterization of electronic power devices in collaboration with ST Microelectronics and CNR. In 2020 joined the '*Regenerative Technologies*' Lab of the BioRobotic Institute of Scuola Superiore Sant'Anna.

He has a team-oriented research approach, and his research interests move from numerical to experimental methods about material science, structural engineering, and biomechanics. In 2018 he supported the course '*Strutture per veicoli spaziali*' as tutor assistant on finite elements analysis classes and he is author and co-author of 12 scientific publications.

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Tommaso Mazzocchi – Research Assistant



Tommaso Mazzocchi is an Assistant Researcher at The BioRobotics Institute of Scuola Superiore Sant'Anna. In 2013 she received a Master's Degree in Biomedical Engineering at the University of Pisa. From 2014 he focused on finding solutions for the urinary system, following three projects, with the supervision of Prof. Leonardo Ricotti and Prof. Arianna Mencisassi: SUAVES , VESPRO and subsequently RELIEF. All the projects, on which he has dedicated himself, were mainly based on find smart solutions to tackle urinary incontinence diseases.

His current research activity concerns the design and development of smart solutions for laboratory automation.

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Aliria Poliziani – Research Assistant



Aliria Poliziani is an Assistant Researcher at The BioRobotics Institute of Scuola Superiore Sant'Anna. In 2016 she received a Master's Degree in Biomedical Engineering at the University of Pisa, with a dissertation about synthesis and acousto-mechanical characterization of nanocomposite materials for ultrasound phantoms and smart substrates for cell cultures.

From February 2017 to May 2019 she worked as a Research Fellow at Istituto Italiano di Tecnologia in the project "BioImpedance Temporary Tattoo Electrodes" (BITTE). She has expertise in design and fabrication via inkjet technology of skin-contact polymeric electrodes for acquiring bio-impedance signals in humans.

Her current research activity concerns the development of biomedical technologies for laboratory automation.

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Laura Riacci – Junior Research Assistant



Laura Riacci is a Junior Assistant Researcher at The BioRobotics Institute of Scuola Superiore Sant'Anna.

In 2020 she received a Master's degree in Biomedical Engineering at University of Pisa. The aim of the thesis is the development of injectable Gellan Gum-based hydrogels for embedding chondrocytes through a minimally invasive procedure, for the reconstruction of articular cartilage defects in situ.

Her research activity concerns the development and the biological and biomechanical characterization of different new hydrogels for the regeneration of the articular cartilage. She also investigates possible cytotoxic effects of nanoparticles on different cells types. Both the activities are involved in the ADMAIORA project.

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Gabriele Baldi – Junior Research Assistant



Gabriele Baldi is a Junior Research Assistant of The BioRobotics Institute of Scuola Superiore Sant'Anna.

In 2019 he received a Master's Degree in Mechatronic Engineering at Politecnico di Torino with a thesis entitled "An Off-line Optimized Planner for the Generation of Path and Orientation of Industrial Robots", carried out in collaboration with Comau S.p.A, in which he developed a trajectory planning algorithm for an industrial manipulator.

From February 2020 he works in the BioRobotics Institute where his job concerns ultrasound simulation and tissue modelling in the context of the Immuniverse project.

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Federica Iberite – PhD student



Federica Iberite is a Ph.D. student in Biorobotics at SSSA, within the “Micro-nano-bio systems and targeted therapies” Lab of The BioRobotics Institute.

In 2017 she received a Master’s Degree in Genetics and Molecular Biology in Basic and Biomedical Research at “Sapienza” University of Rome, with a dissertation about the functional characterization of a novel long non-coding RNA involved in the regulation of Neurogenin2, a master gene of neural differentiation. During her university career, she received two grants for academic merits.

Her current research activity concerns the integration of living and non-living elements for the development of biohybrid actuators by exploiting muscle cells contraction ability. She is also investigating the effect of different mechanical stimuli on cell differentiation for regenerative medicine purposes.

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Angela Sorriento – PhD student



Angela Sorriento is a Ph.D. student in Biorobotics at The BioRobotics Institute of Scuola Superiore Sant'Anna.

In 2016 she received a Master's Degree in Biomedical Engineering at the University of Naples Federico II. Her thesis work was carried out at Maastricht Brain Imaging Center, Faculty of Psychology and Neuroscience of Maastricht University (the Netherlands), focusing on the analysis of Functional Magnetic Resonance Imaging (fMRI) data for discovering brain patterns in the sound categorisation process.

Her research activity concerns the development of smart medical devices for monitoring bone fracture healing. She mainly investigates the biomechanical and biological aspects of the bone regeneration process, based on the integration of engineering tools and physical principles (e.g. ultrasounds).

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Francesco Fontana – PhD student



Francesco Fontana is a Ph.D. student in Biorobotics at The BioRobotics Institute of Scuola Superiore Sant'Anna. In 2017 he received the Master degree in Chemical Engineering at University of Salerno, with a thesis entitled "Configuration of a plant for supercritical CO₂ - assisted electrospinning". His research activity regards the development of an *in vitro* highly controlled combined stimulation system (low intensity ultrasounds plus electromagnetic pulses) of relevant cell lines for modelling neuropathies (in particular the Guillain-Barrè syndrome). The aim is to bring anti-inflammatory and regenerative effects. The second topic concerns the development and characterization of engineered nanocomposite hydrogels for cartilage regeneration.

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Sabrina Ciancia – PhD student



Sabrina Ciancia is a Ph.D. student in Biorobotics at The BioRobotics Institute of Scuola Superiore Sant'Anna, within the "Regenerative Technologies Lab" of The BioRobotics Institute. In 2018, she received a Master's degree in biomedical engineering at University of Pisa, with a thesis on controlled and pulsatile drug delivery enabled by ultrasound. She was awarded with the "NearLab" prize by the National Bioengineering Group, for the best master thesis in the Neuroengineering and Medical Robotics field. Her current research activity concerns the development of biomedical technologies for laboratory automation.

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Diego Trucco – PhD student



Diego Trucco is a Ph.D. student in Biorobotics at The BioRobotics Institute of Scuola Superiore Sant'Anna, within the "*Regenerative Technologies Lab*" of The BioRobotics Institute.

In 2018, he received a Master's degree in Biomedical Engineering at University of Pisa, with a thesis on the 3D bioprinting of silk fibroin-based scaffold for osteochondral regeneration. He has broad scientific interest in 3D Bioprinting, Regenerative medicine, Tissue Engineering and, Nanotechnology.

His current research activity concerns the development of new biocompatible and biomimetic hydrogels for the osteochondral tissue regeneration also using embedded stem cells and nanomaterials. He collaborates within the "*Immunorheumatology and Tissue Regeneration Lab*" of Rizzoli Orthopedic Institute, in Bologna for scientific activities relative to EU project ADMAIORA (Horizon 2020 EU, grant n. 814413).

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Hind Al-Haddad- PhD student



Hind Al-Haddad is a Ph.D. student at BioRobotics Institute of Scuola Superiore Sant'Anna, within the "Regenerative Technologies" lab of the Biorobotics institute.

In 2019, she received a Master's Degree in Bionics Engineering, jointly offered by the University of Pisa and Scuola Superiore Sant'Anna. Her thesis, entitled "*3D Printed Graphene-Based Nanocomposites Mimicking Articular Cartilage Properties*" was focused on developing and characterizing a biocompatible and printable multilayer graft, based on nanocomposite hydrogels, mimicking the zonal organization, the stiffness and the lubrication properties of the articular cartilage.

Her current research activity concerns the development of an immuno-optimized, fully implantable, and automated bionic invisible pancreas that will enable intraperitoneal insulin/glucagon delivery for optimal glycaemic control.

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Andrea Aliperta – Freelance Computer Graphics Artist



Andrea Aliperta is a freelance computer graphics artist. In 2012 he graduated in architecture at the University of Florence. In 2018 he received a PhD in Architecture at University of Florence, and a PhD in Arquitectura, Edificación, Urbanística y Paisaje, at Polytechnic University of Valencia, with a research in the field of digital survey and digital analysis applied to Maya architecture. Is the author or co-author of 15 scientific publications in the field of digital documentation and dissemination of cultural heritage.

Since 2014 he collaborates with The BioRobotics Institute of Scuola Superiore Sant'Anna creating multimedia materials aimed at the dissemination of scientific projects.

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Ylenia Giacalone – Freelance Administrative Assistant



Ylenia Giacalone is a Freelance Administrative Assistant.

She studied at the University of Foreign Languages and Literature in Pisa.

She is the reference person who deals with administrative management practices about purchases and missions. Since 2020 she collaborates with the BioRobotics Institute of Scuola Superiore Sant'Anna supporting research groups.

Denise Luchetta – M.Sc. student in Biomedical Engineering



Denise Luchetta is an M.Sc. student of Biomedical Engineering at the University of Pisa and is currently doing her Master Thesis within the laboratory of "Regenerative Technologies" at The BioRobotics Institute of Scuola Superiore Sant'Anna.

In 2018 she received a Bachelor's degree in Biomedical Engineering at the University of Pisa, with a dissertation about image analysis methods for anatomopathological diagnostics.

Her current activity focuses on finding a new effective way to remove urea, and possibly other substances (e.g. Creatinine, p-cresol), for the regeneration of dialysis fluid, to strongly reduce its volume compared to standard dialysis processes in order to miniaturize the system towards a wearable artificial kidney.

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Alessio Siliberto – M.Sc. student in Biomedical Engineering



Alessio Siliberto is an M.Sc. student in Biomedical Engineering at University of Pisa and he is carrying out his Master Thesis activity within the “Regenerative Technologies” Lab of The BioRobotics Institute.

In 2018 he received a Bachelor’s degree in Biomedical Engineering at University of Pisa, with a dissertation about elastographic analysis methods for anatomopathological diagnostics.

His current activity concerns the research and study of new strategies for the in situ bioprinting of hydrogels and stem cells, with minimally invasive approach in the patient, in order to regenerate damaged tissues and avoid open surgery scenarios.

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Tommaso Minuti - M.Sc. student in Biomedical Engineering



Tommaso Minuti is an M.Sc. student in Biomedical Engineering at University of Pisa and he is carrying out his Master Thesis activity within the “Regenerative Technologies” Lab of The BioRobotics Institute.

In 2018 he received a Bachelor’s Degree in Biomedical Engineering at University of Pisa. During the thesis period, he has executed an evaluation on a functionalization methodology of an artificial knee ligament (LARS) for a radiodiagnostic procedure.

His current activity focuses on the construction of a predictive model for injuries in professional soccer players, through the monitoring of isometric muscle strength with an innovative technique.

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Francesco Iacoponi - M.Sc. student in Biomedical Engineering



Francesco Iacoponi is an M.Sc. student in Biomedical Engineering at University of Pisa and he is carrying out his Master Thesis activity within the “Regenerative Technologies” Lab of The BioRobotics Institute.

In 2017 he received a Bachelor’s Degree in Biomedical Engineering at University of Pisa, with a dissertation about the biomechanical analysis of squat motor patterns.

His current activity focuses on the development of highly controlled ultrasonic stimulation techniques (Low Intensity Pulsed Ultrasound) applied to cell lines in order to promote regenerative effects in a controlled and highly reproducible way.

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Arturo Castillo – M.Sc. student in Bionics Engineering



Arturo Castillo Ugalde is a M.Sc. student in Bionics Engineering at UNIPI and SSSA, Italy.

In 2014 he received a bachelor's degree in Mechanical Engineering in Design and Automated Manufacturing from Merida Institute of Technology, Mexico.

After graduation, he worked mainly on design and development of products using fast prototyping techniques. His work comprises didactic robots, educational tools, industrial tools and machines, and mechatronic devices. He is co-founder of two start-up's: a workshop school for children's STEAM education; another, focus on prototyping and tech product design, funded by a Mexican regional grant (INCUBATICS) that supports innovative tech-based startups. He was awarded with an international studies scholarship by the Mexican Research Council (CONACYT) to perform master studies in Italy.

He is currently developing his M.Sc. Thesis about "model validation and design of rolled biohybrid actuators" within the "Regenerative Technologies" Lab of The BioRobotics Institute. Its work aims to predicts the self-assembled spiral geometry of bilayer structures, based in its initial fabrication parameters, with the purpose of providing a design tool for the development of biohybrid actuation systems.

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Claudia Paci – M.Sc. student in Biomedical Engineering



Claudia Paci is a M.Sc. student in Biomedical Engineering at the University of Pisa and she is currently carrying out her M.Sc. Thesis activity within the “Regenerative Technologies” Lab of The BioRobotics Institute of Scuola Superiore Sant’Anna.

In 2018 she received a Bachelor’s degree in Biomedical Engineering at the University of Pisa developing a Thesis entitled “Realization of an anatomical neonatal head model by CT image segmentation” at the BioRobotics Institute.

Her current Thesis activity focuses on the 3D bioprinting of hydrogel nanocomposites and myoblasts for skeletal muscle tissue engineering.

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Daniele Iachetta – M.Sc. student in Bionics Engineering



Daniele Iachetta is a M.Sc. student of Bionics Engineering at the University of Pisa and Scuola Superiore Sant'Anna and he is carrying out his Master Thesis within the laboratory of "Regenerative Technologies" at The BioRobotics Institute of Scuola Superiore Sant'Anna.

In 2019 he received a Bachelor's degree in Biomedical Engineering(L09) at the University of Palermo, with a dissertation about the causality relationship between the R-R time interval in ECG signal and the peripheral systolic arterial pressure signal.

His current activity is in the context of the MIO-PRO project, focused on the 3D bioprinting of the skeletal muscle.

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Elena Drago – M.Sc. student in Biomedical Engineering



Elena Drago is a M.Sc. student in Biomedical Engineering at the University of Pisa. She is carrying out her Master Thesis activity within the “Regenerative Technologies” Lab of The BioRobotics Institute.

In 2019 she received a Bachelor’s degree in Biomedical Engineering at University of Pisa, with a dissertation about the landscape of 3R centres in Europe.

Her current activity focuses on exploring a new control method for biohybrid actuators based on force fields and nanoparticles.

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