

IFIB 2020 ITALIAN COMPANY REGISTERED PROFILES

Biosphere Srl - <http://www.biospheresrl.com/>

Biosphere is an Italian SME operating in the field of industrial biotechnology, with a focus on the development and scale-up of fermentation processes for the production of different molecules. Biosphere offers R&D services for the development and scale-up of biotechnological processes, from laboratory to pilot and pre-industrial scale, for recombinant protein and metabolites expression in bacteria, yeasts and fungi. The company also provides a qualified contract manufacturing service for the production of microbial biomass, enzymes and metabolites. The company's own research and innovation activities are focused on the development of new processes, based on fermentation and anaerobic digestion, for the valorization and re-use of by-products of the agro-food industry and the production of renewable energy and bio-based molecules and materials.

ROELMI HPC - <https://www.roelmihpc.com/>

is research, planning, development and production of functional, active and performance ingredients. Those through cutting-edge technologies driven by innovation in the green chemistry and by the will of building perfect models of circular economy. Thanks to its long experience, ROELMI HPC deals with the market by a scientific method based on recognized quality, passion, targeted research and tested solutions. The main objective for ROELMI HPC is to create innovation following philosophies of respect for the environment, bio-diversity preservation and use of sustainable sources (NIP® PROGRAM "No Impact in Progress").

MICROBION - Open Innovation Microbiology -

<http://microbion.it/>

Microbion is a Contract Research Organization specialized in customizing and applying cutting-edge DNA based technologies for identification, characterization and authentication of bacteria, yeasts and moulds that are relevant for industries such as agri-food, nutraceuticals, pharmaceutical and generally all bio-based processes of the circular economy. Microbion offers innovative solutions thorough valorisation of microbial biodiversity leading to selection of best starters of fermentations, best competitors of pathogens and contaminants. Microbion provides state of the art genomic and metagenomic technologies for strain characterization and analysis of complex microbial ecologies. Microbion offers also solutions for high resolution monitoring of microbes (strain and species level) in products and processes leading to reliable

Challenge-Tests for validation of product stability and process sanitization in food, nutraceutical and cosmetics industry.

OLON SpA - <http://olonspa.com/>

Olon is an Italian company world leader in the Active Pharmaceutical Ingredients (APIs) production, using synthetic and biological processes for Generic market as well as in Contract Development and Manufacturing (CDMO). Headquartered in Rodano (Italy), Olon has 11 manufacturing facilities – 8 located in Italy, 1 in Spain, 1 in USA and 1 in India, all compliant with international requirements, and 3 branch offices. Olon offers complete integrated packages and services to support the full development of APIs based on strong knowledge in both, Chemical and Biological processes, in a full cGMPs environment including a complete regulatory coverage.

Sigma Consulting srl - <https://www.sigmaconsulting.it/>

Founded in 1998, Sigma Consulting is a System Integration Company experienced in the Design of Electronic and ICT Systems (HW and SW) for avionics, naval and ground platforms and all related services such as: Logistic Support, Training and Customer service. Main fields of application are: security and territorial surveillance, command and control, flight and radar simulators, systems engineering. Sigma has developed civil application products and systems for emergency management (Future Firefighter), telemedicine platform, Smart Farming and Smart City solutions. Sigma steadily collaborates in R&D projects with the Universities of Rome Sapienza, Tor Vergata and Roma Tre, the University of L'Aquila and the CNR-IAC (National Research Institute). Sigma Consulting processes are managed according to UNI EN ISO 9001:2015 quality standards. Sigma Consulting is located in Tecnopolo Tiburtino - the main technological district in Rome, which hosts 130 companies mainly in Aerospace sector. Sigma is the formal representative of ATEN IS Group, an Advanced Technology Network established in 2013 with the aim of developing products and services in the Aerospace and ICT sector. ATEN IS currently consists of more than 30 companies and has established international partnerships with several countries to-date including Brazil, Peru, Ecuador, Bulgaria, China.

PRODUCT - SMART FARMING

Application of modern Information and Communication Technologies (ICT) into agriculture, with the aim of a more productive and sustainable agricultural production and an added value in the form of better decision making or more efficient exploitation operations and management, through remote Sensing, Data Acquisition, Geo Localization, Overlay maps, GIS technology, use of Autonomous Machines and Host sensors and actuators, Decision Support System, Wireless communication and Big Data storing infrastructures. Some of the technologies used are: -Sensors and Actuators, IoT -Geo-positioning systems (GPS) -Big

Data, Cloud -Unmanned Aerial Vehicles (UAVs, drones) -Ground Robots Advantages: -More accurate harvest estimation -Improving agricultural production -Reducing water usage - Reducing chemical inputs -Reducing excessive human burden for laborious tasks -Reduced environmental footprint -Remote monitoring - assistance in strategic decision-making through models and automatic rules Sigma Consulting has participated as a systems integrator in the European HORIZON2020 Project carried out to develop the agricultural equivalent of a SCADA (Control and Data Acquisition) system. The working group, also made up of university scientific partners from three countries (Roma Tre, ULB, Trier, Tuscia) and inspired by the real needs of Ferrero industry partner, developed a PANTHEON hazelnut orchard precision agriculture system, providing complementary experience and technologies (ranging from robotics and control theory, to agronomy, remote sensing, and big data). A system capable of monitoring the phytosanitary status of every single plant in the orchard and collect information at the resolution of the single hazelnut plant.

ACT Operations Research IT - <https://www.act-operationsresearch.com/>

ACT Operations Research (ACTOR) is a math-engineering company specializes in providing corporate decision-making software and process control solutions. Such solutions are based on math-optimization, artificial intelligence, dynamic simulators and predictive models. The software technologies combined with corporate “big data” supports complex business decisions and systems control. The ACTOR decision-science platform enables sophisticated “what-if” analysis as well as the real-time optimization (example are supply chain optimization, dynamic price optimization, simulators etc.) Characterized by continuous research, ACTOR is also a spin-off of the Sapienza University in Rome, Italy. The ACTOR team is composed about 50 specialists which includes several PhDs. ACTOR has offices in Italy with Rome HQ and Varese, Salerno, and is now working on international expansion. We’ve established ACTOR UK (London), ACT OR ES (Barcelona, Spain), and ACTOR US (Charlotte, NC).

Caldic Italia srl - <https://www.caldic.com/it-it/>

Caldic is a full-service innovative solution provider for the global Pharmaceutical and Industrial market. Thanks to our extensive network of reliable supplier partners, we can always provide you with the best quality of products, raw material and ingredients. We aspire to be a leading distribution partner for the global pharma and chemical industry, focusing on the customer’s success by being an inspiring partner with innovative products, services and solutions.

IC2R Ltd - <http://www.ic2r.com/>

Carbon recycling via CO2 utilization and residual biomass valorization

P680 srl - <https://www.p680.it/>

Plant installer INDUSTRIAL BIOTECHNOLOGY

Diatheva Sol Group - <https://www.diatheva.com/>

DIATHEVA is an Italian biotechnology company specialized in R&D and manufacturing of innovative diagnostics solutions and development of novel biologic therapeutics in oncology and infectious diseases areas. Our product portfolio currently comprises kits based on molecular and ELISA technologies for clinical and veterinary diagnostics, for the study of antimicrobial resistance, for food and water testing. Since its foundation DIATHEVA has invested in R&D activities and the company has applied with success to many funded European and national research projects enlarging its collaborative and commercial network and acquiring an updated know-how. DIATHEVA also offers custom and contract manufacturing services for the diagnostic and pharmaceutical industries. DIATHEVA hold a GMP production facility authorized to produce and release biological APIs with a special emphasis on new immunogens, enzymes and antibody fragments. Products & Services
Products: • Antibodies • Recombinant Proteins • Immunoassays • Molecular Biology kit and reagents • DNA Isolation kit
Services Diatheva assists clients in rapidly developing, manufacturing and commercializing immunoassays, molecular kits, antibodies and recombinant proteins. We design, develop, integrate, validate and transfer to manufacturing all aspects of products including validation according to regulatory requirements.

DN360 - <https://en.dn360science.it/>

dn360 is an Italian company born to combine professional experiences acquired in the fields of agronomy, biology, biotechnology, environmental engineering and life sciences