

BioRiver Boost! 2018 – Technology fields

The competition is open to **all life science start-ups and founding projects**. All jury members have committed strong interest to support **promising start-ups**. Dr. Jürgen Schumacher, serial entrepreneur and business angel, and Dr. Martin Pfister, HighTechGründerFonds, are the jury members with the **general focus on innovative life science technologies and teams**.

Additionally we have listed the special fields of interests from our corporate jury members:

The Jury's special Fields of Interests

General:

Biological and biotechnology pharmaceutical products: compounds, diagnostics, biomarker, pharmacological test systems, process development, production technologies

Green biotechnology: new biotechnological processes

Sustainable Solutions and Concepts: Solutions building on natural, environmentally friendly, health/wellbeing & safe concept.

Patient & Customer Care

Indication-wise:

CNS & Immunology: Therapeutics, Biomarkers, Diagnostics, Devices, Offers for Patient Groups, Awareness, Precompetitive Range, e.g. Research tools, cell lines, finding biomarkers, integration of biomarkers into the benefit assessment, new study concepts, reimbursement models.

Lupus (SLE), Hepatitis B & Lung cancer.

Parkinson's disease and retinal diseases (e.g., AMD)

Cell Culture:

Induced-pluripotent stem cells (iPSCs)

Genome editing (z.B. CRISPR-Cas9)

Sterility and safety testing in bioprocessing

Cell therapy bioprocessing (= cell therapy manufacturing, allogeneic and autologous)

Cell therapy quality control (rapid testing, cell monitoring)
Advanced cell culture systems (3D cell culture, microfluidics, bioprinting)
Cell culture analysis (living cells, time-lapse, image recognition)

Nucleic Acids, molecular diagnostics, smart lab, data-enabled healthcare & patient orientation

Nucleic Acid analytics: Nucleic Acid Purification and Quality Control; Sample collection and Stabilization for Nucleic Acid analysis workflows; Technologies (reagents, assays, instruments, software) for PCR, qPCR, dPCR, NGS; Tools for **single cell biology**, single cell genomics

Molecular diagnostics in oncology, women's health, infectious diseases

Smart Lab: Digital services to improve laboratory performance, Automation of lab technologies, Smart services for connected instruments/workflows and data analytics, Technological solutions for fully automated lab (e.g. Robotics), Miniaturization of lab technologies

Data-enabled Healthcare: Digital diagnostics for precision medicine, Business models to access data beyond molecular diagnostic data (e.g. EMR, RWE), Data-based clinical decision support applications (i.e. content to counselor/GP), Data-based services for R&D (i.e. Pharma, Academic), Artificial Intelligence for genetic data interpretation services

Patient Orientation: Business models to access to patient data and other healthcare data (e.g. EMR), Molecular Diagnostics and data-based services to patients and private individuals (i.e. content to patient/individual)