🧬 NextRegen 2026

International Symposium on Next-Gen Regenerative Medicine and AI Technologies

Theme: “Intelligence Meets Regeneration – Engineering the Future of Healing”

April 2–5, 2026

🎯 Symposium Overview

NextRegen 2026 brings together global experts in regenerative medicine, stem-cell technologies, and artificial intelligence to shape the next frontier of healthcare innovation. The symposium explores how AI-driven design, predictive modeling, and data-intensive methods accelerate breakthroughs in tissue engineering, cell therapy, and biofabrication.

Through keynote lectures, panel discussions, and interactive workshops, participants will share pioneering research and discuss translational challenges from the lab to clinical practice.

🧩 Main Topics

🔷 Track I – Stem Cells and Regenerative Therapies

- Mesenchymal, induced pluripotent (iPSC), and embryonic stem-cell applications
- Genetic reprogramming and CRISPR-based regenerative tools

• Exosomes and extracellular vesicles in repair mechanisms
• Cell–matrix interactions and tissue microenvironment engineering
• Translational case studies in musculoskeletal, neural, and cardiac regeneration

---

🔷 Track II – AI and Computational Technologies in Regeneration

• Machine learning for cell-behavior prediction and tissue modeling
• AI-driven biofabrication and scaffold optimization
• Digital twins for personalized regenerative medicine
• Deep learning in histology, microscopy, and image-based cell tracking
• Ethical and regulatory aspects of AI-assisted biomedical systems

---