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Autore	Nabokov, Vladimir
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Autore	Srivastav Alok Kumar
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Nota di contenuto	Chapter 1: Introduction to Biotechnology and IoT Integration -- Chapter 2: Historical Development and Convergence -- Chapter 3: Smart Laboratories and IoT Transformation -- Chapter 4: Healthcare Revolution -- Chapter 5: Connected Biomedical Devices and Digital Integration -- Chapter 6: Data Management, Security, and Ethical Considerations -- Chapter 7: Precision Agriculture and Environmental Monitoring -- Chapter 8: Biometric Security Systems and Wearable Devices -- Chapter 9: Bioinformatics and Cloud Analytics -- Chapter 10: Future Trends, Innovations, and Global Collaboration.

Sommario/riassunto

Dive into the intricacies of biotech and IoT integration with a meticulously crafted journey through the chapters. This book unveils the synergies between lab-based biotech processes and cloud-connected technologies, promising a paradigm shift in healthcare, agriculture, and beyond. Beginning with an introduction to IoT applications and biotechnological principles, the book navigates historical developments and convergence. Chapters unfold transformation of laboratories into smart spaces, revolutionizing healthcare through remote patient monitoring and personalized medicine. Explore the world of IoT-enabled biomedical devices and their impact, while delving into data management, security challenges, and ethical considerations. The narrative extends to precision agriculture, environmental monitoring, and synergy of biometric security systems with wearable devices. Bioinformatics and cloud analytics take center stage, unraveling their role in the biotech IoT landscape. Finally, gaze into the future, anticipating trends, innovations, and global collaborations, concluding with practical insights for professionals and enthusiasts alike. On completion, you will emerge from this enlightening journey equipped with a deep understanding of the transformative power at the intersection of biotechnology and IoT. Gain insights into the historical context, current applications, and future trends shaping the landscape. Armed with a wealth of technical knowledge, readers will navigate smart laboratories, healthcare revolutions, environmental interventions, and more. This book not only opens doors to the intricacies of biotech IoT but also provides practical guidance for navigating the evolving field. You will: Understand the core principles of IoT and its versatile applications across various fields Review the integration of IoT in laboratories, witnessing the metamorphosis of traditional labs into intelligent, connected spaces Explore real-world applications of IoT in healthcare, agriculture, and environmental monitoring.