Biosecurity in the Age of Synthetic Biology is a comprehensive review of the biosecurity issues faced by the innovative and rapidly evolving field of synthetic biology. This is a meticulous review of the groundbreaking biotechnological advancements and the critical need for robust biosecurity measures. The book provides an in-depth examination of the ethical, legal, and societal dimensions shaping the future of synthetic biology research, in addition to a practical protocol for biosecurity risk assessment. This is the first book to offer a structured guideline for biosecurity risk assessment in synthetic biology. The author's balanced view of the opportunities of synthetic biology and the inherent security risks reveals foundational concepts, cutting-edge applications, and international perspectives on biosecurity. This essential guide illuminates scientific and technological frontiers and advocates for a proactive approach ensuring the responsible development and use of synthetic biology. It is an indispensable resource for scientists, policymakers, and anyone interested in the intersection of biotechnology and biosecurity.

Key Features:

- Provides instructions and examples for a biosecurity risk assessment.
- Includes detailed proposed outline for creating a Biosecurity Manual for broad adoption.
- Emphasizes the future challenges and opportunities.
- Offers insights on the role of artificial intelligence in synthetic biology and biosecurity.

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