

Advances in Technologies with Relevance to Biology: The Future Landscape

This chapter provides an overview and a perspective on the breadth and types of technologies that may have an impact on the life sciences enterprise of the future, with the understanding that there are inherent difficulties in anticipating or predicting how any of these technologies alone or in combination will alter the nature of the future threat “landscape.”

Rather than attempt to cover the technology landscape in a comprehensive manner, this chapter (1) highlights technologies likely to have obvious or high-impact near-term consequences; (2) illustrates the general principles by which technological growth alters the nature of future biological threats; and, (3) highlights how and why some technologies are complementary or synergistic in bolstering defense against future threats while also enhancing or altering the nature of future threats.

There is immense diversity and rapid evolution of technologies with relevance to (or impact on) the life sciences enterprise. Their impact(s) may be beneficial or detrimental depending on how these tools and technologies are applied. Some may be seen as “coming out of left field”; that is, these technologies may have very different applications from those originally intended, or may be combined in unexpected, nontraditional configurations. The combination of nanotechnology and biotechnology is one such example of a synergistic combination.

Many of the technologies discussed in this chapter create novel opportunities for scientists (and others) to explore aspects of biological and chemical diversity that cannot be accessed through natural mechanisms

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