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Intellectual Property Issues In Biotechnology

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Adopting a unique approach, and with case studies and examples from developing economy markets, this book integrates science and business to provide an introduction and an insider view of intellectual property issues within the biotech industry. Broad in scope, the book covers key principles in pharmaceutical, industrial and agricultural biotechnology within four sections. The first section details the principles of intellectual property and biotechnology, the second section covers plant biotechnology, including biotic and abiotic stress tolerance, GM foods in sustainable agriculture, microbial biodiversity and bioprospecting for improving crop health and productivity, and production and regulatory requirements of biopesticides and biofertilizers. The third section describes recent advances in industrial

biotechnology, such as DNA patenting, and commercial viability of the CRISPR/Cas9 system in genome editing. The final section describes intellectual property issues in drug discovery and development personalized medicine, and vaccines in biodefense.

About the Author Harikesh Bahadur Singh is Head of the Department of Mycology and Plant Pathology, Institute of Agricultural Sciences, Banaras Hindu University, India. He has been decorated with several National awards and honors for his key role in popularizing organic farming and translating agriculturally important microorganisms from lab to land. To his credit, he has 20 U.S. patents which he has successfully transferred for commercial production of bio-pesticides to several industrial houses in India. Alok Jha is Assistant Director General (International Relations) ICAR, India. Chetan Keswani is a Post-Doctoral Fellow in the Department of Mycology Plant Pathology, Institute of Agricultural Sciences, Banaras Hindu University, India. Trained as a Biochemist he has keen interest in Intellectual Issues in Life Sciences. He has also passed several courses from World Intellectual Property Organization, Geneva, Switzerland. He has been a Key Note speaker in several National and International Conferences to discuss various issues in Intellectual Property and Biotechnology.