

Handbook of Biological Therapeutic Proteins Abstrak karya tulis ilmiah,  
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since 1972 which marks the invention of recombinant engineering more than 500 therapeutic proteins have been approved for clinical use today biological drugs constitute almost 70 of all new drugs and have a biological origin the first edition of this book dealt with biosimilars and this edition i e the second edition focuses on new drugs yet limits to therapeutic proteins newer technologies for drug development represent the updated topics in the book and include repurposing ai driven identification of newer designs novel expression systems manufacturing using these systems rapidly changing regulatory pathways and legal hurdles this edition discusses how to identify develop manufacture and take multibillion dollar products to market within the shortest possible time features complete and thorough coverage of the regulatory and technological challenges of developing generic therapeutic proteins comprehensive discovery to market newer technologies regulatory planning and ip hurdles are included that are not found elsewhere expanded volume that must be in the hands of every company interested in biological drugs including the mrna based biopharmaceutical companies fast appearing on the market discusses how to identify develop manufacture and take multibillion dollar products to market in the shortest possible time renowned author and entrepreneur in the field of drug discovery and production

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## abstract of research in biotechnology in indonesia

antimicrobial peptides a roadmap for accelerating discovery and development covers the most important efforts of scientists and engineers worldwide to accelerate the process of discovery production and eventual market penetration of more potent antimicrobial peptides these efforts have been fueled by emerging technologies such as artificial intelligence and data science molecular and cfd simulations easy to use process simulation packages microfluidics 3d printing among many others such technologies can now be implemented and scaled up quickly and at relatively low cost in low budget production facilities critical to moving to sustainable and marketable products worldwide discovering novel antimicrobial peptides rationally and cost effectively has emerged as one of the significant challenges of modern biotechnology thus far this process has been tedious and costly resulting in molecules with activities far below those needed to address the current challenge of microbial resistance to antibiotics that takes the lives of thousands of people around the world every year finally the book also highlights how multidisciplinary teams have assembled to address the challenges of manufacturing biological testing and clinical trials to finally reach complete translation covers computational tools including emerging artificial intelligence algorithms and microfluidic systems for discovery and high throughput screening of amps discusses the application of bioprocess engineering scale up approaches for amps production and purification with the aid of process simulation tools and rapid prototyping highlights user centered design and formulation of products with amps describes the whole pipeline for amps production

plant gene transfer achieved in the early 80s paved the way for the exploitation of the potential of gene engineering to add novel agronomic traits and or to design plants as factories for high added value molecules for this latter area of research the term molecular farming was coined in reference to agricultural applications in that major crops like maize and tobacco were originally used basically for pharma applications the concept of the green biofactory implies different advantages over the typical cell factories based on animal cell or microbial cultures already when considering the investment and managing costs of fermenters although yield stability and quality of the molecules may vary among different heterologous systems and plants are competitive on a case to case basis still the plant factory

attracts scientists and technologists for the challenging features of low production cost product safety and easy scale up once engineered a plant is among the cheapest and easiest eukaryotic system to be bred with simple know how using nutrients water and light molecules that are currently being produced in plants vary from industrial and pharmaceutical proteins including medical diagnostics proteins and vaccine antigens to nutritional supplements such as vitamins carbohydrates and biopolymers convergence among disciplines as distant as plant physiology and pharmacology and more recently as omic sciences bioinformatics and nanotechnology increases the options of research on the plant cell factory farming for pharming biologics and small molecule medicines is a challenging area of plant biotechnology that may break the limits of current standard production technologies the recent success on ebola fighting with plant made antibodies put a spotlight on the enormous potential of next generation herbal medicines made especially in the name of the guiding principle of reduction of costs hence reduction of disparities of health rights and as a tool to guarantee adequate health protection in developing countries

a comprehensive review of the recent developments in microbial bioprotectants covers key classifications of bioprotectants bacterial e g bacillus spp fungal e g trichoderma spp and viral e g bacteriophages discusses the general issues that arise with the use of key bioprotectants throughout agriculture e g risk of development of resistance against bioprotectants

teknik pemisahan dan penulenan produk telah berkembang pesat dan telah menjadi bahagian asas yang penting dalam unit operasi secara umumnya teknik pemisahan dan penulenan produk dapat ditakrifkan sebagai kaedah proses pemulihan pengasingan dan penulenan produk daripada bahan yang tidak dikehendaki yang telah bercampur baur dengan produk teknik ini dapat dilaksanakan melalui proses fizikal kimia atau biologi termasuk kitar semula komponen yang boleh digunakan rawatan yang sesuai perolehan semula dan pembuangan sisa teknik pemisahan ini perlu diuji pada peringkat makmal sebelum diguna pakai pada peringkat industri atau pembuatan kebiasaannya di dalam industri pembuatan teknik pemisahan digunakan daripada peringkat pengasingan produk sehingga ke proses penggilapan atau pemurnian produk secara umumnya teknik pemisahan dan penulenan produk terbahagi kepada empat peringkat iaitu penyingkiran bahan tidak larut pengasingan

bahan penulenan dan penggilapan atau pemurnian produk setiap teknik mempunyai kekuatan dan kelemahan tersendiri yang perlu pengguna memahami dengan betul dan mampu memanipulasinya dengan bijak buku ini telah dibangunkan untuk memberikan penerangan lengkap tentang teknik pemisahan dan penulenan produk dalam buku ini perbincangan tentang teknik teknik ini dipecahkan kepada empat bab utama iaitu pemisahan bahan tidak terlarut pengasingan produk penulenan produk dan penggilapan produk setiap satu bab diperincikan dengan subtajuk yang memudahkan pemahaman pembaca skop buku ini juga sesuai dijadikan bahan rujukan pelajar sekolah menengah mahasiswa guru pensyarah penyelidik dan saintis yang menggunakan teknik pemisahan dan penulenan produk

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