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Plant-Derived Vaccines: Technology & Applications

Published: November 2011
Editor(s): Franco M Buonaguro
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11 chapters, 143 pages.



The enormous progress made in plant genomics is opening the possibility of using plants as bioreactors for the production of pharmaceutical products, ranging from immunogens (single peptides to complex structures such as virus-like particles) to adjuvants, microbicides and monoclonal antibodies.

This book includes 11 chapters spanning most of the issues involved in plant-based vaccine production, including intellectual property considerations and veterinary applications. In addition to the detailed description of antigen expression in different plant systems, adjuvant production and plant glycosylation of proteins are also analyzed.

Chapter List

1. Plant-derived vaccines: technologies & applications: Franco M Buonaguro
2. Patents and molecular farming: Pascal MW Drake & Harry Thangaraj
3. In planta production of recombinant and indigenous adjuvants: Antonio Granell, Asun Fernandez-del-Carmen & Diego Orzáez
4. Rapid and high-yield production of immunotherapeutic plant-made antibodies: Cristina Capodicasa, Marcello Donini, Maria Elena Villani & Eugenio Benvenuto
5. Vaccine peptide display on recombinant tobacco mosaic virus particles: Tatiana V Komarova, Igor V Petrunia & Yuri L Dorokhov
6. Plastid transformation as a tool for plant-based production of vaccines and therapeutic proteins: Paolo Lenzi, Nunzia Scotti, Pal Maliga & Teodoro Cardi
7. Prophylactic and therapeutic HPV vaccines from plants: Edward P Rybicki, Colomba Giorgi & Rosella Franconi
8. Plant-derived anti-HIV-1 proteins: Nunzia Scotti, Luigi Buonaguro, Maria Lina Tornosello, Teodoro Cardi & Franco Maria Buonaguro
9. Plant-based hepatitis B vaccines: Sergei N Shchelkunov & Galina A Shchelkunova
10. Influenza vaccines: new perspectives from plants: Chiara Lico, Giampaolo Buriani, Floriana Capuano, Eugenio Benvenuto & Selene Baschieri
11. Plant-made mucosal vaccines: Rurick K Salyaev, Maria Manuela Rigano & Natalya I Rekoslavskaya
12. Current status of plant-made veterinary vaccines: Assunta Pelosi, Claire Penney, Huai-Yian Ling & Amanda M Walmsley

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