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2.	Record Nr.	UNINA9911018654803321
	Autore	Swarup Renu
	Titolo	At War with the Single Strand : How Indian Science Fought the COVID-19 Pandemic // edited by Renu Swarup, Govindarajan Padmanaban, Narendra Kumar Arora
	Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2025
	ISBN	9789819681228 9789819681211
	Edizione	[1st ed. 2025.]
	Descrizione fisica	1 online resource (287 pages)
	Altri autori (Persone)	PadmanabanGovindarajan AroraNarendra Kumar
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Nota di contenuto	<p>Ch 1 Evolution of the SARS-CoV-2 Virus Spike Glycoprotein During the Covid-19 Pandemic -- Ch 2 Laying the Roadmap for a Robust R&D Ecosystem -- Ch 3 Understanding the virus -The Evolving Mutations -- Ch 4 Leveraging the Scientific Strength to test , track & treat. A public health perspective -- Ch 5 C-CAMP COVID-19 Innovations Deployment Accelerator (C-CIDA)—Dr Taslim cCAMP -- Ch 6 Pandemic Pioneers: The AMTZ Story -- Ch 7 Mylab's Remarkable Role in Transforming Diagnostics during the COVID-19 Pandemic -- Ch8 The Race to Pioneer a Solution to the RNA Challenge -- Ch 9 Journey of COVID-19 vaccines at Serum Institute of India - Serum Institute of India -- Ch 10 ZyCoV-D The World's First Human DNA Vaccine for COVID-19 -- Ch 11 MADE IN INDIA, MADE FOR INDIA-Establishment of the nation's first pandemic-ready mRNA-based platform technology- Gennova -- Ch 12 CORBEVAX™ development and deployment: A highly successful partnership between Biological E and BIRAC during the COVID19 pandemic—BioE -- Ch 13 Hester Biosciences Limited's contribution towards combating COVID-19—Haester -- Ch 14 Indian Immunologicals Limited's contribution to Mission Covid Suraksha—IIL -- Ch 15 Science behind COVID vaccines -- Ch 16 The Clinical Trial Network -- Ch 17 Fostering Industry Academia partnership -- Ch 18 The Start up response -Fostering Resilience: The IKP Story of Leveraging Startup Ingenuity in Tackling the COVID-19 Pandemic -- Ch 19 Digital India - A Boon harnessed well -CoWIN – Enabling over 2 billion Vaccine -- Ch 20 COVID 19 – The Global Response and Our Learnings- Lessons from the Pandemic for Science and the Way Forward.</p>
Sommario/riassunto	<p>This book provides insights into India's management of the war against COVID-19, highlighting the scientific response and featuring stories from key players. The chapters not only address the challenge but also showcase innovative solutions achieved within a short time frame. They discuss the emergence of the virus, its spread, and its hazards, exploring the scientific basis of pandemic and its biological changes, and further discussing its challenges and opportunities. The book also includes a roadmap for research and translation, featuring innovative strategies for testing, tracking, and treating the virus, as well as achievements in diagnostics. Additionally, it reflects on the global response to COVID-19 and provides strategies for future preparedness. It addresses the scientific complexities, clinical trials, and collaborative partnerships driving vaccine development and distribution in India. The book is supplemented with stories of strength and innovation from vaccine development in India as well as global collaborations. The book is relevant for scientists, researchers, policymakers, as well as national and international organizations as a resource to plan strategies for managing future health emergencies.</p>