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ISBN	3-030-62452-8
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (266 pages)
Collana	Current Topics in Microbiology and Immunology, , 2196-9965 ; ; 430
Disciplina	610.72
Soggetti	Immunology
	Cancer
	Regenerative medicine
	Stem cells
	Cytology - Technique
	Cancer Biology
	Regenerative Medicine and Tissue Engineering
	Stem Cell Biology
	Enginveria hiemòdica
	Organogènesi
	Investigació mèdica
	Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction: Rationale of using skin models in research Skin anatomy (human and animals for experimental research) In vivo skin models In vitro human skin models (Skin equivalents vs skin explants) Human skin models for studying cutaneous infections Skin animal models for pharmacological research Human skin models for pharmacological research Human skin models for allergological research Human skin models for cancer research Human skin models for vaccine research.
Sommario/riassunto	This edited volume discusses the application of very diverse human

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organotypic models in major areas of biomedical research. The authors lay a main focus on infectious diseases, cancer, allergies, as well as drug/vaccine discovery and toxicology studies. Representing a valid alternative to laboratory animals, these models are relevant for most areas of translational research. As the contemporary research shows, many human tissues can today be cultivated in vitro and used for several research objectives. This book provides an unprecedented overview of recent developments in an exciting field of research methodology. It is a reference guide for scientists in both academia and industry. Readers can update their knowledge and get hands-on recommendations on how to set up an organotypic model in their lab. Chapters 'Progress on Reconstructed Human Skin Models for Allergy Research and Identifying Contact Sensitizers' and 'Human Organotypic Models for Anti-infective Research' of this book are available open access under a CC BY 4.0 license at link.springer.com.