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Altri autori (Persone)	DudejaVikas
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Nota di contenuto	How to Establish, Staff, and Fund Your Basic Science or Translational Research Laboratory -- How to Fund Your Basic Science or Translational Research Laboratory -- Choosing a Good Scientific Mentor and Being a Good Mentee -- Effective Time Management Strategies for Conducting Laboratory Research -- Maintaining an Effective Lab Notebook and Data Integrity -- Statistics and Bioinformatics for Bench Research -- Ethics in Laboratory Research -- Modern Techniques for DNA and RNA Assessment -- Modern Techniques for Protein Assessment -- Considerations for Immunohistochemistry and tissue imaging -- Fundamentals of Flow Cytometry and Cytometry by Time of Flight (CyTOF) -- Effective Cell and Tissue Culture -- Gene Therapy & Gene Editing Techniques -- Single-cell RNA sequencing technologies and applications: A brief overview -- Stem cells and Tissue Engineering -- Animal Models in Surgical Research -- Overview of Advances in Live Animal Imaging -- The Role of the Microbiome in Surgical Diseases and their Management -- Systems Biology: Generating and Understanding Big Data.
Sommario/riassunto	This book advises the reader on the mechanics of starting a basic science research career as an academic surgeon. Written by established content experts, the chapters are both comprehensive and practical in their approach. The book includes a suggested timeline for the initial academic appointment, including how to setup and fund the laboratory

and identifying appropriate scientific mentors and lab personnel. It also describes the application of basic and advanced research techniques, including animal models, flow cytometry, gene editing, tissue engineering, and microbiome analysis. Success in Academic Surgery: Basic Science is an essential guidebook for senior residents or fellows approaching their first academic appointment, young faculty in the process of establishing their research career, and more senior investigators interested in expanding their research horizons. .
