

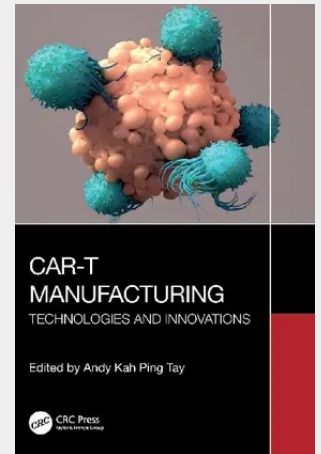
Tay

CAR-T Manufacturing

Technologies and Innovations

This edited volume describes innovations in all steps of the CAR-T manufacturing chain. These vital descriptions will help practitioners to overcome current challenges during the process and vastly reduce costs and enable timely and accessible administration of CAR-T therapy to patients. The book provides readers with information on key fundamental concepts of CAR-T manufacturing in areas such as cell selection, cell activation, cell transfection, cell expansion, genetic engineering, and quality control. In each chapter, a particular technological field in the CAR-T manufacturing chain is discussed. Each chapter will include an introduction to the importance of a particular technology for cell manufacturing, comparisons of state-of-the-art methods, and discussions on respective emerging innovations. This exposes readers to a high-level view of the entire process while diving into details for each specific process step. Readers will be able to apply their knowledge to make changes at each step of the CAR-T manufacturing process to reduce the existing high costs and long production times, so that cancer patients globally can benefit from CAR-T therapy. This book is an invaluable resource for practitioners in CAR-T manufacturing who aim to improve their quality and efficiency while reducing time and costs. It is also useful for advanced undergraduate and graduate students who wish to gain a strong foundation for continuing research in the field or interacting with practitioners.

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