

Contents

Foreword — V

Foreword — VII

List of contributing authors — XI

Gunjan Jeswani and Ajita Khichariya

Introduction — 1

Mohammad Adnan Raza, Anjila Firdous, Tejas B. Patil, Nousheen Khatoon,
Ayushmaan Roy, Vijayalakshmi Ghosh, Sanjay kumar Gupta, and Ajazuddin

Chapter 1

Techniques for characterizing micro/nanoemulsions in pharmaceutical formulations — 9

Ashish Kumar Pandey

Chapter 2

Micro/nanoemulsions in dermatology for enhanced therapeutic solutions — 49

Shweta Ramkar, Binayak Mishra, and Preeti K. Suresh

Chapter 3

Harnessing micro/nanoemulsion for transnasal drug delivery with enhanced efficacy and precision — 79

Mitali Singh, Mukesh Kumar Singh, and Arun Kumar Mishra

Chapter 4

Micro/nanoemulsions redefining cosmeceutical formulation for optimal skin health — 107

Sanjay Kumar Gupta, Aakash Gupta, Debarshi Kar Mahapatra, Alka Sahu,
Sumit Sahu, Priya Komre, and Yamini Sahu

Chapter 5

Accelerating recovery through advanced wound healing applications of micro/nanoemulsions — 127

Amrita Thakur and Gunjan Jeswani

Chapter 6

Precision oncology: nanoemulsions as pioneers in the delivery of anticancer agents, immunomodulators, and vaccines — 171

Hend I Shahin and Lipika Chablani

Chapter 7

Cutting-edge innovations: advances and applications of micro/nanoemulsions in gel formulations — 211

Swarnali Das Paul, Disha Kesharwani, Monika Bhairam, Gunjan Kalyani, and Sandhya Mishra

Chapter 8

Clinical frontiers and regulatory status of micro/nanoemulsions — 251

Shrikant Dargude, Ajita Khichariya, Anuruddha Chabukswar, Satish Polshettiwar, and Swati Jagdale

Chapter 9

Future prospects of micro/nanoemulsions in enhancing drug performance — 269

Index — 289