Preface

In the past years, new knowledge has provided a remarkable insight about the contributions of the milieu in which epidermal stem cells reside to the regenerative powers of the skin. The novel emerging interactions of epidermal stem cells with their neighboring cells, as well as with cells in the microenvironment including dermal cells, melanocytes, vasculature, and immune cells, are adding structural and functional complexities to the already multifaceted stem cells located in the epidermis and its derived hair follicle appendages.

In this third volume of the Book Series: *Advances in Stem Cells and their Niches*, experts in the skin research field cover most of the recent conceptual and experimental findings in the epidermal stem cell niche arena. All the chapters in this book include comprehensive information and illustrations, providing the necessary framework to introduce the readers to the fascinating world of the epidermal stem niche. These concepts expand further covering the latest developments in the field, involving state-of-the-art methodologies, new ideas, and clinical implications. Besides, all the chapters raised pressing questions for further investigation within the field.

This book will be of interest to research scientists and clinicians, providing them with an updated view of these research fields, and enlarging concepts that may be complementary to their areas. It will also stimulate students to learn and engage on the exciting epidermal stem cell niche field, and it will appeal to a wide circle of readers that are interested in increasing their perception of the intricacies of the epidermal stem cell niche in skin regeneration and its implications in disease.

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