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10.3390/ijms18020283 . 84 -- Niels A. J. Cremers, Kimberley E. Wever, Ronald J. Wong, Rene E. M. van Rheden, Eline A. Vermeij, Gooitzen M. van Dam, Carine E. Carels, Ditte M. S. Lundvig and Frank A. D. T. G. Wagener Effects of Remote Ischemic Preconditioning on Heme Oxygenase-1 Expression and Cutaneous Wound Repair doi: 10.3390 /ijms18020438 . 98 -- Hairong Huang, Daniel Wismeijer, Ernst B. Hunziker and Gang Wu The Acute Inflammatory Response to Absorbed Collagen Sponge Is Not Enhanced by BMP-2 doi: 10.3390 /ijms18030498 . 116 -- Fang Bian, Yangyan Xiao, Mahira Zaheer, Eugene A. Volpe, Stephen C. Pflugfelder, De-Quan Li and Cintia S. de Paiva Inhibition of NLRP3 Inflammasome Pathway by Butyrate Improves Corneal Wound Healing in Corneal Alkali Burn doi: 10.3390 /ijms18030562 . 127 -- Ju Ho Park, Ji Yeon Choi, Dong Ju Son, Eun Kyung Park, Min Jong Song, Mats Hellstr ¨om and Jin Tae Hong Anti-Inflammatory Effect of Titrated Extract of Centella asiatica in Phthalic AnhydrideInduced Allergic Dermatitis Animal Model doi: 10.3390 /ijms18040738 . 141 -- Anke Schmidt, Thomas von Woedtke, Jan Stenzel, Tobias Lindner, Stefan Polei, Brigitte Vollmar and Sander Bekeschus One Year Follow-Up Risk Assessment in SKH-1 Mice and Wounds Treated with an Argon Plasma Jet doi: 10.3390/ijms18040868 . 155 -- Paris Jafari, Camillo Muller, Anthony Grognuz, Lee Ann Applegate, Wassim Raffoul, Pietro G. di Summa and Sebastien Durand First Insights into Human Fingertip Regeneration by Echo-Doppler Imaging and Wound Microenvironment Assessment doi: 10.3390 /ijms18051054 . 173 -- Uzoagu A. Okonkwo and Luisa A. DiPietro Diabetes and Wound Angiogenesis doi: 10.3390/ijms18071419 . 183 -- Hannah M. Thomas, Allison J. Cowin and Stuart J. Mills The Importance of Pericytes in Healing: Wounds and other Pathologies doi: 10.3390/ijms18061129 . 198 -- Anne Bukowiecki, Deniz Hos, Claus Cursiefen and Sabine A. Eming Wound-Healing Studies in Cornea and Skin: Parallels, Differences and Opportunities doi: 10.3390 /ijms18061257 . 212 -- Mark Hesketh, Katherine B. Sahin, Zoe E. West and Rachael Z. Murray Macrophage Phenotypes Regulate Scar Formation and Chronic Wound Healing doi: 10.3390/ijms18071545 . 236 -- Uyen Thi Trang Than, Dominic Guanzon, David Leavesley and Tony Parker Association of Extracellular Membrane Vesicles with Cutaneous Wound Healing doi: 10.3390/ijms18050956 . 246 -- Leonie Brockmann, Anastasios D. Giannou, Nicola Gagliani and Samuel Huber Regulation of TH17 Cells and Associated Cytokines in Wound Healing, Tissue Regeneration, and Carcinogenesis doi: 10.3390/ijms18051033 . 266 -- Kathrine Hyldig, Simone Riis, Cristian Pablo Pennisi, Vladimir Zachar and Trine Fink Implications of Extracellular Matrix Production by Adipose Tissue-Derived Stem Cells for Development of Wound Healing Therapies doi: 10.3390/ijms18061167 . 282.

Sommario/riassunto

Wounds are a largely unrecognized, spiraling epidemic that affect millions of people world-wide. They are complex and involve temporal and spatial involvement of many different cell types and tissue processes. Recent advances in our understanding of wound repair and regeneration, as well as the many novel and exciting approaches aimed at healing chronic/acute wounds and reducing scar formation, make this a pertinent time for a Special Issue aimed at overviewing this important field. The goal of this book is to provide a summary of the field, describe its impact, as well as introduce the recent advances in understanding the mechanisms that underpin wound healing and scar formation. The articles include in this book highlight new developments in therapeutic approaches for wound repair including the use of nanomedicine and biomaterials to deliver cells and/or drugs to promote healing. Cellular responses that underpin angiogenesis,

	inflammation, proliferation and remodeling, as well as advances in cytoskeletal interactions in keratinocytes and fibroblast cell functions. Wound remodeling and scar formation including the roles of growth factors, cytokines and stem cells are included.

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