

International Conference on

# WOUND CARE, TISSUE REPAIR AND REGENERATIVE MEDICINE

&

8<sup>th</sup> World Congress on

BREAST CANCER MANAGEMENT AND THERAPY June 14-15, 2018 | London, UK

## Role of the pharmaceutical device Prisma® Skin in modulating fibroblast functions *in vivo*

**Antonello Petrella**

University of Salerno, Italy

Our recent *in vitro* investigations showed that Prisma® Skin is able to enhance re-epithelialization and granulation processes, acting on human epidermal keratinocytes and dermal fibroblasts. This pharmaceutical device can induce a strong cytoskeletal re-organization to enhance cell migration and invasion.

The aim of this study is to evaluate the clinical effects of Prisma® Skin on patients affected by pressure ulcers focusing on fibroblasts activity.

This clinical study focused on the use of the Prisma® Skin on nine permanently bedded patients. The haematoxylin-eosin and immunohistochemical staining of patients' biopsies that we assumed as a to point proved the lack of cell structure in the analyzed tissues with a tendency to wound bed sclerosis and

reduced inflammatory activity.


We performed treatments for 14 days with Prisma® Skin and we found a relevant formation of granulation tissue. The strong increase of vimentin expression confirmed fibroblasts recruitment on patients' skin biopsies the end of the treatment.

Our clinical study shows the positive effects of Prisma® Skin on pressure ulcers modulating fibroblast functions.

### Speaker Biography

Antonello Petrella is currently working as a Professor of Pharmacology, Department of Pharmacy-University of Salerno, Italy. His professional interests involve the role of Annexin A1 in migration and invasion of human pancreatic carcinoma cells and in prostate cancer progression. Moreover studying the role of mesoglycan in skin wound healing. The Author has published about 60 scientific papers in refereed journals

e: [apetrella@unisa.it](mailto:apetrella@unisa.it)

 Notes: