

Science Bridges China Research Profile

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SUMMARY OF MY RELEVANT RESEARCH AREAS:

microneedle drug delivery system which would effectively improve the absorption and utilization of the cosmetics or topical applied medicines

辅助性微针给药系统-----可有效提高外用美容护肤品/或皮肤病外用治疗药物吸收利用率,改善疗效

Primary Research interests:

Microneedle drug delivery system

Microneedles are designed to be painless whilst overcoming the natural barrier function of the skin. Microneedle therapy is a way to rejuvenate the skin without destroying the epidermis. Methods for manufacturing these microneedle devices include micromolding, microfabrication, microshaping, and combinations thereof. Micro needles have a number of potential benefits for patients, clinicians, and the pharmaceutical industry as compared with alternative delivery methods. The future of drug delivery is assured to be significantly influenced by microfabrication technologies. These microfabricated drug delivery devices can enable efficient drug delivery that was unattainable with conventional drug delivery techniques, resulting in the enhancement of the therapeutic activity of a drug.

As a dermatologist, microneedle drug delivery system which would effectively improve the absorption and utilization of the cosmetics or topical applied medicines is my interest.

Topics in which you would like to develop collaborative research:

microneedle drug delivery systems for aesthetic medicine or dermatoses treatment

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Relevant existing collaborations (academic/clinical/commercial) inside or outside China

Initial Cooperation with Institute of Plastic Machinery And Engineering, Beijing University of Chemical Technology in microneedle drug delivery systems's development.

Publications and other outputs relevant to your interest in this programme

Relevant graphics, figures, pictures:

Chinese PLA General Hospital Beijing with 153 clinical and medical technology departments, integration of medical and health care, teaching and scientific research, and an annual volume of 2.3 million outpatient visits, more than 60 thousand admissions and over 34 thousand operations, has turned into a large state-of-the-art general hospital which is the biggest in the army and internationally famous. It has been extolled by servicemen and the masses as "the guardian of lives".

