Delft Symposium on Mathematical Models for Wound Healing

Location: Pegasus Lecture Room, Kluyverweg 6, Delft University of Technology, Delft. The symposium takes place between 9:45 and 17:00 O'Clock at October 15, 2009. Participation is free, please register before October 10, 2009, via: Mechteld van Doorninck, phone 015-2787209, email m.e.vanDoorninck@tudelft.nl. For more information, see http://ta.twi.tudelft.nl/users/vermolen/DelftSymp.html.

Wound healing is a vital, but notoriously complicated, biological process with many partial processes, such as contraction, angiogenesis and wound closure for dermal wounds. For optimal healing of wounds caused by a traumatic event or by surgery, a detailed understanding of this process is indispensible. Since animal experiments should be reduced due to ethical restrictions, simulation is a very helpful tool to analyze medical issues such as wound healing, bone ingrowth, bone fracture healing and implant dynamics. At this symposium, mathematical models and issues of several biological processes related to wound healing are addressed.
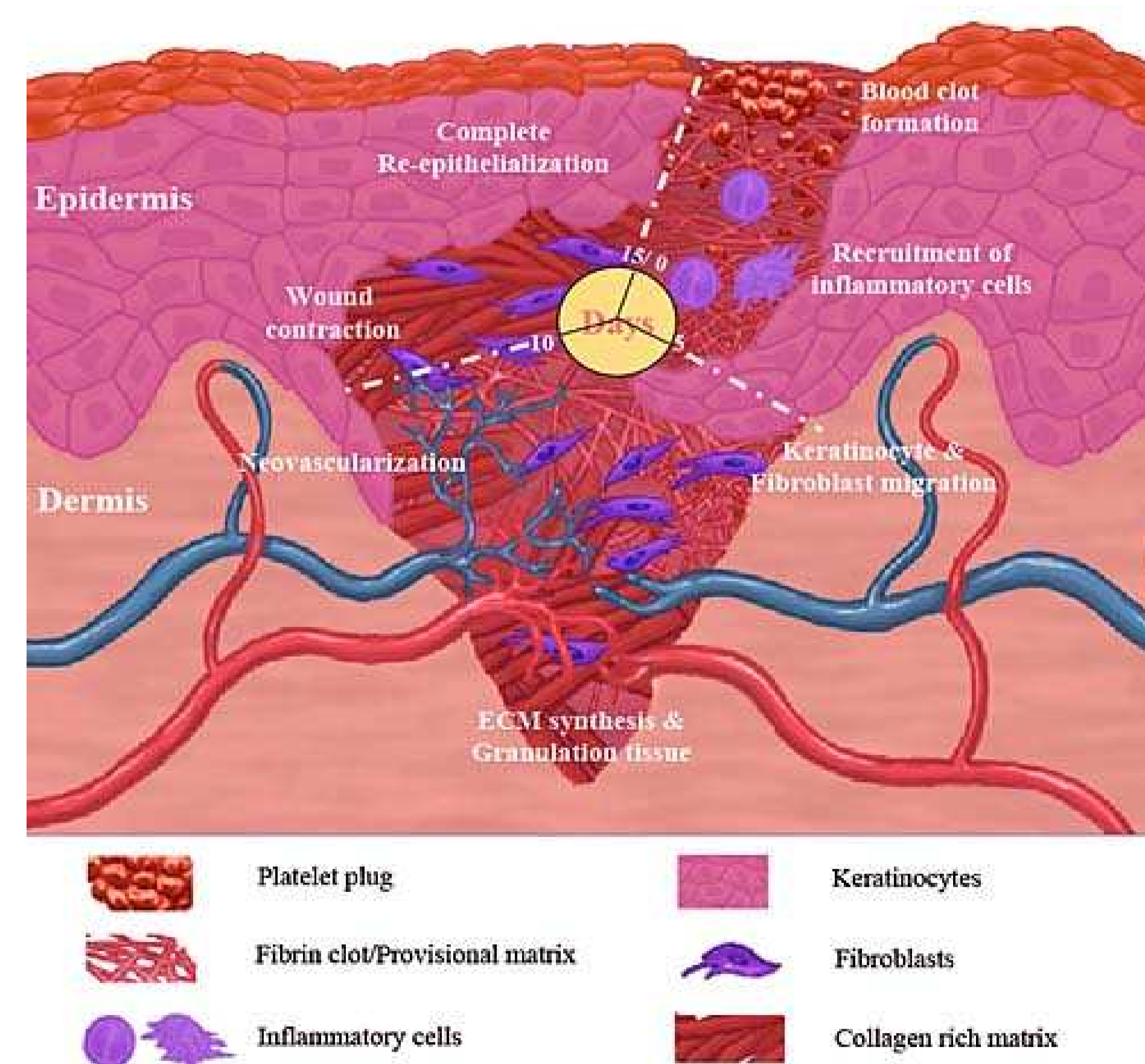
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- Senternovem;

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Speakers

- John Adam: Waves in wound healing;

- Manu Jose Garcia-Aznar: Mechanobiology in bone regeneration;

- Rolf Krause: Multiscale Simulation Techniques for Bone Fracture Healing;

- Amit Gefen: Computational studies of cell-level models of pressure ulcers;

- Fred Vermolen: Mathematical issues for wound healing;

- Etelvina Javierre: Effect of stitching up incision wounds;

- Miguel Herrero: Coagulation after injury.

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