ReBioStent

Reinforced Bioresorbable Biomaterials for Therapeutic Drug Eluting Stents

Science for Industry: Bioresorbable Materials for Medical Applications

Date: Wednesday, September 2nd, 2015

Special Session at the 27th European Conference on Biomaterials ESB2015

Venue: ICE – Conference Venue, Krakow, Poland

Organizers: Xiang Zhang, Ipsita Roy, Kadem Al-Lamee, Stuart Maclachlan, Maria Joao Barros, Nial Bullett, Mark Taylor

Supported by: ReBioStent project, grant agreement n° 604251 from the European Union's Seventh Programme for research, technological development and demonstration (FP7)

Materials for medical applications take many forms, from metallic to synthetic and natural polymers and materials of biological origin. The ultimate goal of an implantable device is for it to be unrecognised by the body, to allow for stable long term lifetime of the device. One strategy for this is for the devices to be bioresorbable – to disappear after their initial function is no longer needed as healing has occurred. Permanent implants may cause complications many years after initial healing has occurred and their presence in the body is no longer necessary.

Bioresorbable materials have applications in a wide range of medical indications, such as sutures, coronary and peripheral vascular scaffolds, bone pins and anchors, tissue fixation screws, drug delivery coatings and microspheres and surgical meshes and matrices. The bioresorbable materials may include polymers, metals, ceramics, glasses and materials of biological origin such as natural collagen, and may allow for drug elution and delivery as well as performing a mechanical function.

Bioresorbable sutures have been available for over 40 years, yet recent innovations have expanded the market for bioresorbable implants to include cardiovascular, orthopaedic and general surgery. This has demanded increased performance from polymers, with increased strength and control over degradation being necessary.

The ESB 2015 Science for Industry: Bioresorbable Materials for Medical Applications Symposium will focus on novel and commercially applicable research and product development work on bioresorbable materials and medical devices. Presentations will be provided by industrial and academic participants, with an interest and focus on new materials development, product design and commercialisation.

The event will be of interest to a wide audience of biomaterials scientists and engineers, including medical device manufacturers and academics. The programme will include a discussion and Q&A panel.

Please register your interest using the following link to receive news and updates about this event:

http://rebiostent.eu/satellite-session-at-esb2015-science-for-industry/