

CA16217 - European network of multidisciplinary research to improve the urinary stents

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European network of multidisciplinary research to improve the urinary stents

Description

Parties

Management Structure

Action Details

 MoU - 028/17

 CSO Approval date -
23/06/2017

 Start of Action - 19/09/2017

 End of Action - 17/03/2022

 Former end date - 18/09/2021

Description

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the urine. Regardless of its composition, polymeric or metallic, it is associated with a high morbidity. Stented patients have functional impairment in many aspects of everyday life, including anxiety, sexual

disfunction and desire, loss of labor days, and significant impact in patients quality of life. This decrease in quality of life increase have a significant negative economic impact, with further cost for medical consultations, hospitalizations, increase the antibiotic, analgesic and alpha-blockers intake to mitigate the side effects of these prothesis.

Therefore, prime objective of this Action is to create a multidisciplinary group to identify the inherent problems in urinary stents, related to its design, composition, biomaterials, coatings, encrustation, interaction between urinary tract-stent and fluid dynamics, physiology effects on urinary tract, assessing the problem from different points of view.

Action members as part of clinical, experimental and bioengineering field, will evaluate the applications of Nanotechnology, biodegradable materials, coatings, metal stents, drug-eluting biodegradable designs, and tissue-engineered stents for use in future urinary stents.

This action will provide an extensive, interdisciplinary training program including scientific/technical, market and social skills contents; this will contribute to strengthen the interactions within the Action consortium and improve the chances of early-career researchers on the job market. Overall, success in this Action will contribute to improved healthy-quality of patients, reduction in health care costs, and increase the competitiveness of the European medical device industry.

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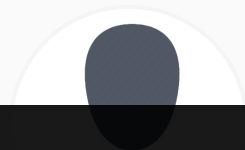



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Parties

Management Structure

Action Leadership Positions

Action Chair

Dr Federico SORIA 

Action Vice Chair

Prof Evangelos LIATSIKOS 

WG 1 - State of art of Urinary stents.

Dr Duje RAKO 

WG 2 - Computational

simulation, Biomedical fluid dynamics, Biomechanical characterization.

Prof Sarah WATERS 

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WG 4 - Biomaterials and stent coatings.

Dr Alexandre BARROS

WG 5 - Drug Eluting Stents (DESs).

Prof Gianluca CIARDELLI

WG 6 - Future research lines (Bioactive-Antibody, Biocovered stents, Biodegradable, Nanotechnology, Bioprinting).

Dr Niels-Peter BUCHHOLZ

Grant Holder Scientific Representative

Dr Federico SORIA

Science Communication Manager

Dr Nuno AZEVEDO

STSM Coordinator

Dr Dario CARUGO

ITC Conference Manager

Dr Marta GROCHOWICZ

Management Committee

Country	MC Member
Austria	Prof Gerhard A. HOLZAPFEL

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Dr Helene JUNG

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Institution Name	MC Observer
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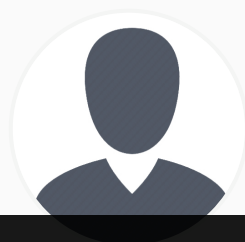


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