

CV – YSF Elections 2017

**CV Miguel Castilho**



Name : Miguel Dias Castilho

Nationality: Portuguese

Date of birth: 05 / 01 / 1984

Current position: Postdoctoral researcher at the Department of Orthopaedics, UMC Utrecht, Netherlands, and at the Department of Orthopaedic Biomechanics, Eindhoven University of Technology, Netherlands

Research interests: Ceramic biomaterials, regenerative medicine, additive manufacturing bioprinting, Mechanical behaviour of Biomaterials

Position applied for:

	YSF communication and dissemination officer
X	YSF industrial liaison officer
	YSF educational officer
	YSF secretary
	YSF national chapters liaison officer

Attendance of past ESB conferences:  
ESB Athens 2017; ESB 2014 Liverpool

**Candidate:**

*Motivation:* I first got experience with the biomaterials field during my major studies in mechanical engineering, in a research internship at the Centre for Rapid and Sustainable Product Development, where I worked with Prof. Paulo Bártolo (University of Manchester). Such experience raised my curiosity towards the biological disciplines and application of materials in regenerative medicine, therefore, inspire me to foster my knowledge in the biomedical sciences by conducting PhD at University of Lisbon and at the University of Wurzburg. This project was developed in collaboration with a biomaterials company, where I had the ability to combine my technical background with experience in regulatory affairs, given my work on obtaining a CE mark for my printed bone scaffolds. Following my interest in this field on May 2015, I joined the Dept. of Orthopaedics (UMC Utrecht) and the Dept. of Biomedical Engineering (Eindhoven University of Technology) as a Postdoctoral researcher. Simultaneously, I dedicate part of my working time as a lecturer at first international Master's degree in Biofabrication, Utrecht University, a leading institution in the field of Biofabrication.

CV – YSF Elections 2017

Here I have co-developed an innovative biofabrication method for *in-vivo* like tissue manufacturing. From these findings I was recently awarded a EU Grant in collaboration with a leading bioprinting instrument company.

For a young researcher my achievements on translating fundamental research to the medical market have been well recognised, which clearly reflects my successful relation with industrial players and innovation facilitators in the field. Moreover, I am actively involved in a number of national and international collaborations where I have a leading role in bridging both technical and medical sciences. I have also personally initiated and I am currently coordinating different collaborations with industrial partners at the Utrecht Biofabrication facilities. I believe that my demonstrated experience working with industrial partners and my current job position as a technical scientist within a clinical environment clearly reflects my interdisciplinary experience on fundamental aspects for an Industrial Liaison officer: technology, biomedicine and translation.

Possible Achievements: Engagement of industrial partners within the ESB is a crucial step for the sustainability of our community. This aspect is clearly reflected not only during the organization of research meetings and conferences, but mostly on the high industrial involvement required by most of the current research funding schemes. Therefore, I will implement a new strategy of action to engage the industrial partners in early stages of preparation of future events and also expand the translation oriented workshops and industrial sessions during our research conferences. Moreover, I believe that the YSF can serve as a platform for training the next generations of graduates in both regulatory affairs and marked translation aspects of new research products/methodologies. Therefore, I will actively explore strategies to improve the training of the next generation of graduates provided by our society, e.g. short internships in key industrial players in the field. This aspect will definitely shorten the distance with the industrial partners and encourage their enrolment in our society.

Communication skills: English, Portuguese, Spanish, Dutch (basic)