

MICHELE DESOGUS

PERSONAL INFORMATION



Sex: Male | Date of birth: 27/06/1986 | Nationality: Italian



57, San Benedetto, Cagliari, 09100, Italy



+39 349 540 0010



michele.desogus@superable.it

WORK EXPERIENCE

2007 - 2010

Para-subordinate collaborator at **BCS Biotech** - Cagliari (CA), Italy.

- Design and development of a micro-wells scanner for analyses of biological samples.

2005 - 2006

Civil service at **CIP - Comitato Italiano Paralimpico** - Cagliari (CA), Italy.

- Assistance to disabled and organization of sports events; secretarial and accounting work.

EDUCATION AND TRAINING

01/2013 - Ongoing

PhD in Biomedical Engineering at University of Cagliari - Cagliari (CA), Italy.

- Analysis of human tissues by developing image processing algorithms. Objectives of the course are: learning techniques of image processing algorithms; investigation of the mechanisms of cell differentiation; data analysis.

07/2014 - 02/2015

Contamination Lab at University of Cagliari - Cagliari (CA), Italy.

- Project created to promote entrepreneurship culture and innovation. Goals of the project are: development of problem solving and gestational abilities; acquisition of relationship and cooperation skill; analysis of entrepreneurial opportunities connected with specific technical expertise.

07/2013

Industrial Engineering Professional Qualification at University of Cagliari - Cagliari (CA), Italy.

02/2012 - 12/2012

Master's Thesis in Biomedical Engineering at Scuola Superiore Sant'Anna - Biorobotics Institute - Pontedera (PI) - Italy.

- Design and development of intra-neural electrodes. Objectives of the thesis are: learning micro-fabrication techniques and materials characterization; utilization of CAD and multiphysics simulation software.

09/2010 - 12/2012 **Master's degree in Biomedical Engineering** at University of Pisa - Pisa (PI) - Italy.

- Vote: 105/110; Knowledge acquired: Medical Robotics, Bioengineering of Rehabilitation, Biomechatronics, Tissue Engineering, Biomedical Electronics, Bioengineering of Radiation, Modeling of Complex Systems, Analysis of Biomedical Signals, Biomolecular and Cellular Engineering.

09/2005 - 04/2010 **Bachelor's degree in Biomedical Engineering** at University of Cagliari - Cagliari (CA) - Italy.

- Knowledge acquired: Mechanics, Electronics, Biomaterials, Informatics, Micro-fabrication processes, Chemistry and Biochemistry, Anatomy and Physiology.

09/1999 - 06/2004 **Science High School diploma** at Alberti - Cagliari (CA) - Italy.

- Knowledge acquired: Mathematics, Physics, Italian, English, Latin.

LANGUAGES

Italian	Mother tongue
English	Intermediate Level

OTHER SKILLS

Informatics: Autocad, Comsol, Labview, Matlab, Office, Windows.

Personal interests: Sports: I'm a AIA Futsal referee.

Driving licence (categories A-B)

PATENTS

US 8127804 M.C. Deidda, M. Desogus, G. Zucca, “*Device and method for the dilution and preparation of antiproliferative drugs*”.

WO/2010/081536 A. De Montis, C. Lauterio, L. Deiana, S. Musiu, S. Lostia, F. Perseu, M. Desogus, S. Perseu, “*A Biochip reader for qualitative and quantitative analysis of images, in particular for the analysis of single or multiple Biochips*”.

PUBLICATIONS

A. Crobe, M. Desogus, A. Sanna, M. Fraschini, C. Gerosa, D. Fanni, V. Fanos, P. Van Eyken, G. Faa, “*Decreasing Podocyte Number during Human Kidney Intrauterine Development.*”, American Journal of Physiology – Renal Physiology DOI: 10.1152/ajprenal.00165.2014. - The first two authors contributed equally to this work.

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