

Personal information

First name/Surname:	Marco De Sanctis
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Place and date of birth:	Rome, 29 October 1982
Nationality:	Italian
Mother language:	Italian
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Educational and professional titles

- 2005 – Bachelor degree in “Biotecnologie” (Grades: 108/110) University “La Sapienza”, Rome, Italy. Thesis title: “Valutazione del destino e degli effetti di microinquinanti in processi a fanghi attivati”.
- 2006 – Master’s Degree in “Biotecnologie Industriali e Ambientali” (Grades: 110/110 and praise) University “La Sapienza”, Rome, Italy. Thesis title: “Processi di depurazione biologica a biomassa sospesa in presenza di microinquinanti: studio delle prestazioni di processo e degli effetti sui microrganismi nitrificanti”.
- 2007/2010 – Ph.D. in “Industrial Chemical Processes” University “La Sapienza”, Rome, Italy. Thesis title: “Aerobic granulation process for wastewater treatment”.
- 2010/2011- Postdoctoral Research Fellow at Water Research Institute (IRSA) of Italian National Research Council (CNR), Department of Rome, concerning Aerobic granulation and Control of bulking and foaming problems in activated sludge plants.
- Since 2008 - Tutor of International Specialized Course “Operation and Control of activated sludge processes using microbiological analysis”. Organized by “Centro Studi Politiche Ambientali L.Bazzucchi”, IWA and Italian Chemical Society- Environment Division.
- Since 2011 – Research scientist at Water Research Institute (IRSA) of Italian National Research Council (CNR), Department of Bari.

International project

- From November 2006 to March 2010 - European project INNOWATECH (*Innovative and integrated technologies for the treatment of industrial wastewater*); € 4.8 millions budget. Bio-molecular characterization of Granular biomass by FISH analysis within WP1. (Contract n°: 036882; <http://www.innowatech.org/>)

Publications

A International peer reviewed papers

A1 - Di Iaconi C., **De Sanctis M.**, Rossetti S., Mancini A. (2011) “Bio-chemical treatment of medium-age sanitary landfill leachates in a high synergy system”. *Process Biochemistry*, vol 46, pp. 2322-2329. I. F. : 2,648.

A2 - **De Sanctis M.**, Di Iaconi C., Lopez A., Rossetti S. (2010) “Granular biomass structure and population dynamics in Sequencing Batch Biofilter Granular Reactors (SBBGR) ”. *Bioresource Technology*, vol. 101, N7, pp. 2152-2158. I.F. : 4,453.

A3 - Di Iaconi C., **De Sanctis M.**, Rossetti S., Ramadori R. (2010) "SBBGR technology for minimising excess sludge production in biological processes". *Water Research*, vol. 44, N6, pp. 1825-1832. I. F. : 4,546.

A4 - Di Iaconi C., Del Moro G., **De Sanctis M.**, Rossetti S. (2010) "A chemically enhanced biological process for lowering operative costs and solid residues of industrial recalcitrant wastewater treatment". *Water Research*, vol 44, N12, pp. 3635-3644. I. F. : 4,546.

A5 - Di Iaconi, C., **De Sanctis, M.**, Rossetti, S., Ramadori, R. (2008) "Technological transfer to demonstrative scale of sequencing batch biofilter granular reactor (SBBGR) technology for municipal and industrial wastewater treatment". *Water Science and Technology* , vol 58, N2, pp. 367-372. I.F. : 1,005.

A6 - Di Iaconi C., Del Moro G., Lopez A., **De Sanctis M.**, Ramadori R. (2008) "Municipal wastewater treatment by a periodic biofilter with granular biomass". *Water science and technology*, vol. 58, N12, pp. 2395-2401. I.F. : 1,005.

A7 - Dionisi D., Levantesi C., Majone M., Bornoroni L., **De Sanctis M.** (2007) "Effect of micropollutants (organic xenobiotics and heavy metals) on the activated sludge process". *Ind. & Eng. Chem. Res.* Vol 46, N21, pp. 6762-6769. I.F. : 1,895.

B International conferences

B1 - C. Di Iaconi C., Lotito A.M., **De Sanctis M.** and Bergna G (2012). "Ozone enhanced biological treatment of textile dyeing effluents". International Symposium of Sanitary and Environmental Engineering 9th edition (SIDISA 2012), Milano, Italy.

B2 - De Kreuk M. K., **De Sanctis M.**, Rossetti S., Pronk M., Van Loosdrecht M. C. M. (2009). "A study to the microbial population in aerobic granular sludge". Presentato per IWA international specialised conference on microbial population dynamics in wastewater treatment, Aalborg, Denmark.

B3 - **De Sanctis M.**, Di Iaconi C., Rossetti S., Ramadori R. (2009). "Granular biomass population dynamics in Sequencing Batch Biofilter Granular Reactors (SBBGR) under start-up and stationary conditions". Presentato per IWA international specialised conference on microbial population dynamics in wastewater treatment, Aalborg, Denmark.

B4 - Di Iaconi C., Del Moro G., **De Sanctis M.**, Ramadori R. (2008) "Technological transfer to demonstrative scale of SBBGR technology for municipal wastewater treatment". 4th sequencing batch reactor conference, IWA.

C Books

C1 - Watts S., de Kreuk M., Pijuan M., Di Iaconi C., Ried A., Rossetti S., Del Moro G., Mancini A., **De Sanctis M.**, Giesen A., Pronk M., van Loosdrecht M.M.C. and Keller J. "Aerobic granular biomass processes" Chapter 1 in "Innovative and Integrated Technologies for the Treatment of Industrial Wastewater (INNOWATECH)", Lopez A., Di Iaconi C., Mascolo G. and Pollice A. (2011) IWA Publishing, London. ISBN: 9781843393436