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### Professional goals

Acquire theoretical and practical scientific knowledge through international work experience in the bioengineering/regenerative medicine academic research field.

### Publications

1. N.V. Chevtchik, **M. Fedecostante** , J. Jansen, M. Mihajlovic, M. Wilmer, M. R uth, R. Masereeuw and D. Stamatialis. Upscaling of a living membrane for bioartificial kidney device. Eur J Pharmacol. 2016 Jul 6. doi: 10.1016/j.ejphar.2016.07.009.
2. **J. Jansen and M. Fedecostante** et al. Bioengineered kidney tubules efficiently excrete uremic toxins. Scientific Reports 6 (2016) doi:10.1038/srep26715
3. J. Jansen, I. E De Napoli, **M. Fedecostante**, C. M. S. Schophuizen, N. V. Chevtchik, M. J. Wilmer, A. H. van Asbeck, H. J. Croes, J. C. Pertijs, J. F. M. Wetzels, L. B. Hilbrands, L. P. van den Heuvel, J. G. Hoenderop, D. Stamatialis and R. Masereeuw. Human proximal tubule epithelial cells cultured on hollow fibers: living membranes that actively transport organic cations. Scientific Reports 5, Article number: 16702 (2015). doi:10.1038/srep16702
4. **J. Jansen and M. Fedecostante** et al., Biotechnological challenges of bioartificial kidney engineering, Biotechnol Adv, 2014 Nov 15;32(7):1317-27.

### Training

**01/07/2015 – current position:** PhD student at the Pharmacology Division at the Utrecht Institute for Pharmaceutical Sciences (UIPS), Utrecht University. funded by Utrecht University and European Union. This project is part of the BIOART Initial Training Network, FP7-PEOPLE-2012-ITN. Reference: 316690.

**01/12/2013 – 01/07/2015** –PhD student at the Pharmacology and Toxicology Department, Radboud University Nijmegen, The Netherlands. Project: “Immortalized human renal epithelial cells for bioartificial kidney” funded by European Union. This project is part of the BIOART Initial Training Network, FP7-PEOPLE-2012-ITN. Reference: 316690

**05/10/2010 - 20/03/2013:** Degree in Medical Biotechnology at the Faculty of Medicine of the University of Bologna with 110/110 cum laude (<http://corsi.unibo.it/biotecnologiemediche>) Skills developed: Learning of the general aspects and subjects for start and pursue a research project.

**11/07/2011 - 15/07/2011:** Innovation and Technology Management in medical and pharmaceutical biotechnology. Skills developed: Learning the structure of the biotech companies and the drug bureaucracy.

**08/10/2007 - 06/10/2010:** Bachelor's degree in Biotechnology at the Faculty of Mathematical, Physical and Natural Sciences of the University of Bologna with 101/110 (<http://corsi.unibo.it/Laurea/Biotecnologie>)

**09/09/2002 - 29/06/2007:** High School Diploma in science and technology at the Technical Institute ITIS Vito Volterra, Turrets (AN) with 100/100 (<http://www.itisancona.it/>)

### Professional Experiences

**Curricular Internship - Master degree (01/06/2012 - 02/17/2013):** Development of the research project "bio-molecular mechanisms in postoperative ileus" at the Functional Gastrointestinal Laboratory within the Policlinico S. Orsola-Malpighi Hospital in Bologna plus a collaboration with the Tytgat Institute, Academic Medical Center, Amsterdam (The Netherlands). Skills developed: Learning some basic research techniques (Western Blot, ELISA, qPCR, Immunohistochemistry, Immunofluorescence, cell culture and basic operations with the mouse model), team work, weekly meetings.

**Curricular internship – Bachelor degree (05/04/2010 - 15/09/2010):** Development of the research project "Molecular mechanisms involved in neurogenesis defects in Down syndrome" at the Department of Physiology of the University of Bologna. Skills developed: achievement of the basic rules about how a research project is built up and get the possibility to carry out the first experiments in total autonomy. Techniques: PCR, DNA/RNA extraction from mice tissues, cell culturing.

### Congresses

**16<sup>th</sup> – 20<sup>th</sup> November 2016:** American Society of Nephrology (ASN). Chicago, USA. Poster session.

**14<sup>th</sup> – 17<sup>th</sup> September 2016:** ESAO – Warsaw, Poland. Poster session.

**28<sup>th</sup> June – 1<sup>st</sup> July 2016** – Tissue Engineering and Regenerative Medicine Society (Termis-EU). Uppsala, Sweden. Oral presentation.

**2<sup>nd</sup> – 5<sup>th</sup> September 2015:** European Society of Artificial Organs (ESAO) – Leuven, Belgium. Poster session (1<sup>st</sup> poster award prize obtained).

**8<sup>th</sup>-9<sup>th</sup> May 2014:** RIMLS PhD retreat in Wageningen (the Netherlands), including two poster sessions.

**18-20 April 2013:** 15<sup>th</sup> GISMAD (Gruppo Italiano per lo studio dell'apparato digerente), Firenze, Italy. Oral presentation.