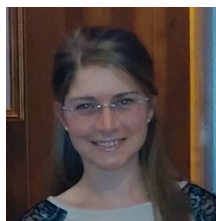





## PERSONAL INFORMATION



## Laura Tiozzo Fasiolo

 Via Giglio 7/B, 30015 Sottomarina, Venice, Italy  
 0039 338 29 79 208  
 laura.tiozzofasiolo@studenti.unipr.it or tzzlra@gmail.com

Sex female | Date of birth Oct 29, 1989 | Nationality Italian

CURRENT POSITION  
11/2018-TODAY

### Hospital Pharmacist

**Specialization course in Hospital Pharmacy (4 year Course)**  
 University of Parma, Italy

## WORK EXPERIENCE

11/2015 -10/2018

**Ph.D. Course in Drugs, Biomolecules and Health Products**

Curriculum Biopharmaceutics and Pharmacokinetics  
 Department of Pharmacy, University of Parma, Parma, Italy  
Research project: Formulation and delivery of disease modifying agents as nasal powders for Alzheimer's disease  
 (Supervisor: Prof. Gaia Colombo, Ph.D.)

**Scientific research period abroad (during Ph.D. Course, 09/2017 – 03/2018)**

National and Kapodistrian University of Athens, Faculty of Pharmacy, School of Health Science, Athens, Greece  
Research project: Nasal flurbiprofen powder: in vivo evaluation of plasma and brain distribution  
 (Supervisor: Prof. Georgia Valsami, Ph.D.)

01/2015 - 04/2015

**Scientific research period abroad post-graduation (within Erasmus+ Traineeship program)**

Laboratory of Drug Addiction, Department of Pharmacology, Krakow, Poland  
Research project: Studies into effects of the amide derivative of N-acetyl cysteine on rewarding and seeking behavior in bulbectomized or sham operated rats  
 (Supervisor: Prof. Malgorzata Filip, Ph.D.)

01/2014 - 09/2014

**Scientific research period for experimental Master degree thesis**

Department of Life Science and Biotechnology, University of Ferrara, Ferrara, Italy  
Research project: Cocaine's effects on quinpirole-induced inhibition of dopamine efflux: possible relevance of the D2/sigma1 receptor heteromer  
 (Supervisor: Prof. Luca Ferraro, Ph.D.)

06/2013 - 01/2014

**Professional internship in Pharmacy**

All'Adriatico Pharmacy, Sottomarina, Venice, Italy  
Acquired skills: manufacturing of medicines in the pharmacy's lab, involvement in informational medical campaigns, interaction with patients for drugs administration, personal care, cosmetics and phytotherapeutics

01/2009 - 09/2009

**Professional internship in Midwifery**

S. Anna Hospital of Ferrara, Department of Midwifery, Ferrara, Italy  
Acquired skills: completion of medical records, recording of vital signs, blood sample, cardiotocography exam

## EDUCATION

11/2016

**Designation of "Expert in the field" of Pharmaceutical Technology**

Authorization to take part in examination board for Pharmaceutical Technology Exam  
 (exam within Master degree in Pharmacy, University of Ferrara, Italy)

11/2014

**State Examination for Pharmacist**

License to practice Pharmacy  
 University of Ferrara, Ferrara, Italy

09/2009 – 10/2014

**M. Sci. Graduation in Pharmacy**

LM-13 Pharmacy and Industrial Pharmacy (5 years Master degree course)  
 Department of Life Science and Biotechnology, University of Ferrara, Ferrara, Italy  
 Final degree mark: **110/110 cum laude**  
 Main disciplines studied: Chemistry, Biology, Pharmacology, Toxicology, Pharmacotherapy

10/2008 – 08/2009 **First year of Bachelor degree in Nursing and Midwifery** (discontinued study)  
L/SNT1, 1st level degree in Nursing and Midwifery (3 years Bachelor degree course)  
Department of Medicine and Surgery, University of Ferrara, Ferrara, Italy  
Main disciplines studied: Human Physiology and Pathology, Microbiology, Health care  
Total number of exams passed: 9

09/2003 – 06/2008 **High School Diploma of Liceo Classico**  
Liceo Classico G. Veronese, Chioggia, Venice, Italy  
School-leaving examination mark: **100/100**.  
Main disciplines studied: Latin, Ancient Greek, History, Philosophy, Italian language

## PERSONAL SKILLS

Mother tongue Italian  
Other Language English (Level B2)

Job-related skills **Laboratory instrumentations and technologies:** HPLC-UV and HPLC-fluorescence, Dynamic Light Scattering and Zeta Potential measurement, Vertical Franz cells, cryostat. Basics of liquid scintillation spectrophotometer, spray dryer (Mini spray drier B-290 and Nano spray drier B-90, Buchi), X-ray diffraction, Differential Scanning Calorimetry.

**Drug development and formulation:** especially powders (e.g. spray-dried microparticles and agglomerates thereof) for nasal administration.

**In vitro/ex vivo experiments:** Release across artificial membranes and transport across animal tissues (rabbit nasal mucosa) of chemical agents. Perfusion of rat striatal synaptosomes and hippocampal tissue slices.

**In vivo experiments:** Nasal administration of solid (powders) and nasal or i.v. liquid drug formulation in anaesthetized rat. Rat's total body perfusion-fixation (basics). Extraction and preparation of rat's tissues (liver, kidneys, brain, nasal mucosa) for *in vitro/ex vivo* experiments. Rat handling and care.

Measurement of locomotor activity in rats (notions), drug i.v. self-administration including initial operant lever pressing training, acquisition/maintenance of self-administration under stable (fixed ratio) and increasing (progressive ratio) schedules of reinforcement, extinction/abstinence procedures in various living conditions and reinstatement of seeking behavior induced by priming dose of drug or cue associated with drug self-administration. Stereotactic surgery (notions).

**Other skills:** Writing and reviewing of scientific documents such as scientific reports, peer reviewed scientific publications, project plans and research proposals. Communication and presentation of scientific outputs to different target audiences.

Interest in learning about Cosmeceutics, Fitotherapeutics and Nutrition.

Computer skills Good knowledge of Office programs (Word, Excel, PowerPoint), e-mail (Gmail). Windows and Mac operating system. Knowledge of Wingsfar software for the management of pharmacy.

Driving license B

## ADDITIONAL INFORMATION

### Membership to Associations and Professional Orders

1/2018 – 1/2019 **Member of ADRITELF** (Associazione Docenti e Ricercatori Italiani di Tecnologie e Legislazione Farmaceutiche), Socio Junior.

11/2016 - today **Member of AAPS** (American Association of Pharmaceutical Scientists)

11/2016 - today **Member of A.It.U.N.** (AAPS Italian University Network)  
**Chair of A.It.U.N.'s roster** (2018/2019)  
**Chair-Elected in A.It.U.N.'s roster** (2017/2018)  
**Vice-President in A.It.U.N.'s roster** (2016/2017)  
Organization of 12<sup>th</sup> A.It.U.N. Meeting (Bologna, Italy. May 11<sup>st</sup>-12<sup>nd</sup>, 2018) and 11<sup>th</sup> A.It.U.N. Meeting (Padua, Italy. May 11<sup>st</sup>-12<sup>nd</sup>, 2017)

4/2015 – today **Member of Order of Pharmacists** of Venice, Italy

5/2018 - today **Member of AVIS** (Associazione Volontari Italiani del Sangue) Ferrara

## Papers and publications

Review article num. 1: L. Ferraro, **L. Tiozzo Fasiolo**, S. Beggiato, A.C. Borelli, L. Pomierny-Chamiolo, M. Frankowska, T. Antonelli T, M.C. Tomasini, K. Fuxe, M. Filip (2016). "Neurotensin: A role in substance use disorder?". Journal of Psychopharmacology.

Review article num. 2: **L. Tiozzo Fasiolo**, M. Manniello, E. Tratta, F. Buttini, A. Rossi, F. Sonvico, P. Russo, F. Bortolotti, P. Russo, G. Colombo. (2017) "Opportunity and challenges of nasal powders: drug formulation and delivery". European Journal of Pharmaceutical Sciences.

Research article num. 1: **L. Tiozzo Fasiolo**, M.D. Maniello, F. Bortolotti, F. Buttini, A. Rossi, F. Sonvico, P. Colombo, G. Valsami, G. Colombo, P. Russo. Anti-inflammatory flurbiprofen nasal powders for nose-to-brain delivery in Alzheimer's disease. Journal of Drug Targeting. 2019.

Research article num. 2: V. Piazzini, E. Landucci, M. D'Ambrosio, **L. Tiozzo Fasiolo**, L. Cinci, G. Colombo, D.E. Pellegrini-Giampietro, A.R. Bilia, C. Luceri, M.C. Bergonzi. Chitosan coated human serum albumin nanoparticles: A promising strategy for nose-to-brain drug delivery. International Journal of Biological Macromolecules. 2019

Research article num. 3: F.A. Bruinsmann, S. Pigana, T. Aguirre, G. Dadalt Souto, G. Garrastazu Pereira, A. Bianchera, **L. Tiozzo Fasiolo**, G. Colombo, M. Marques, A. Raffin Pohlmann, S. Stanisçuaski Guterres, F. Sonvico. Chitosan-Coated Nanoparticles: Effect of Chitosan Molecular Weight on Nasal Transmucosal Delivery. Preprints 2019, 2019020034

## Posters and oral communication at meetings

Oral presentation: **L. Tiozzo Fasiolo**, G. Valsami, D.M. Rekkas, P. Russo, G. Colombo. In vitro and in vivo study of flurbiprofen nasal powder for Alzheimer's disease. Presented to Innovation in local drug delivery - 18<sup>th</sup> School for Doctorate in Pharmaceutical Technology, 2018. Como, Italy.

Oral presentation: V.Piazzini\*, **L. Tiozzo Fasiolo**, E. Landucci, M. D'Ambrosio, L. Cinci, G. Vanti, L. Risaliti, C. Luceri, G. Colombo, A.R. Bilia, M. C. Bergonzi. The effect of chitosan coating on human serum albumin nanoparticles for nose to brain delivery. Presented to Innovation in local drug delivery - 18<sup>th</sup> School for Doctorate in Pharmaceutical Technology, 2018. Como, Italy. (\*presenting author)

Oral presentation: **L. Tiozzo Fasiolo**, G. Valsami, D.M. Rekkas, G. Colombo\*, P. Russo, E. Balafas, N. Kostomitsopoulos. Opportunity of nasal powders: brain and plasma pharmacokinetic in vivo of NSAID. Presented to the EUFEPS Meeting 2018, Athens, Greece. (\*presenting author)

Presentation rewarded with the "EUFEPS 2018 Women in Pharmaceutical Sciences Award".

Oral presentation: **L. Tiozzo Fasiolo**. "Nano and Miny Spray Drying Technology for the manufacturing of nasal powders: a comparison using fluriprofen". Presented to the Day of Chemistry 2016, Ferrara, Italy.

Poster: **L. Tiozzo Fasiolo**, G. Valsami, d. Rekkas, P. Russo, G. Colombo. In vitro and in vivo study of Flurbiprofen nasal powder for Alzheimer's disease. Abstract submitted for presentation to AAPS annual meeting 2018, Washington, USA.

Poster: **L. Tiozzo Fasiolo**, G. Valsami, d. Rekkas, F. Bortolotti, P. Russo, G. Colombo. Flurbiprofen nasal powder for the early inflammation in Alzheimer's disease: an *in vitro* and *in vivo* study. Presented to SimInhale COST Action Summer School on Pulmonary Drug Delivery, Dublin 2018.

Poster: **L. Tiozzo Fasiolo**, G. Valsami, D.M. Rekkas, G. Colombo, P. Russo, E. Balafas, N. Kostomitsopoulos. Nasal flurbiprofen powder: in vivo evaluation of plasma and brain distribution. Presented to Controlled Release Society 2018 Annual Meeting & Exposition 2018, New York, USA.

Poster: **L. Tiozzo Fasiolo**, M.D. Manniello, P. Russo, G. Colombo, D.M. Rekkas, F. Bortolotti, G. Colombo. Nasal flurbiprofen for Alzheimer's disease. Presented to 11 World Meeting on Pharmaceutics, Biopharmaceutics and Pharmaceutical Technology, 2018, Granada, Spain.; presented to A.It.U.N. 2018, Bologna, Italy.

Poster: **L. Tiozzo Fasiolo**, F. Bortolotti, M.D. Manniello, P. Russo, G. Colombo. Spray-dried microparticles and agglomerates for nose-to- brain delivery of flurbiprofen for early stage treatment of Alzheimer's disease. Presented to 21<sup>st</sup> International Symposium on Microencapsulation (2017), Faro, Portugal.

Poster: **L. Tiozzo Fasiolo**, M.D. Manniello, P. Russo, G. Colombo. Nasal Flurbiprofen sodium microparticle and agglomerates for early stage treatment of Alzheimer's disease by nasal administration. Presented to ULLA Summer School 2017, Leuven, Belgium.

Poster: A. Dede, **L. Tiozzo Fasiolo**, G. Colombo, D. Rekkas, G. Valsami. In vitro transport of crocin and saffranal from saffron extracts across rabbit nasal mucosa. Presented to 1<sup>st</sup> Hellenic Chinese Congress on Health (2017), Athens, Greece.

Poster: **L. Tiozzo Fasiolo**, M.D. Maniello, L.F. Giordano, P. Russo, g. Colombo. Nano and Mini spray-dried microparticle powder agglomerates for nose-to-brain delivery of flurbiprofen. Presented to A.It.U.N. 2017, Padua, Italy

Poster: **L. Tiozzo Fasiolo**, E. Tratta, F. Bortolotti, F. Buttini, M. D. Manniello, P. Russo, G. Colombo. "In vitro transport study across rabbit nasal mucosa of drug microparticles for Alzheimer's disease". Presented to AAPS Paris Summer School 2016, Paris, France.

Poster: E. Tratta, C. Barboni, **L. Tiozzo Fasiolo**, F. Bortolotti, D. Rekkas, G. Colombo. "Lecitin/chitosan nanoparticles for nose-to-brain delivery of Rimonabant". Presented to A.It.U.N 2016, Parma, Italy.

Poster: J. Miszkil, G. Kazek, **L. Tiozzo Fasiolo**, J. Jastrzebska. "Changes of the 5-HT1B receptors protein level after chronic amphetamine self-administration and its withdrawal in designated structures of rat brain". Presented to ECNP Congress 2015, Amsterdam, Netherlands.

## Other works

Translation (English to Italian) and content adaptation (American to Italian pharmaceutical practice and regulation) of chapter 4<sup>th</sup> and Appendix A of Pharmaceutical Calculations by H.C. Ansel and S.J. Stockton, Wolters Kluwer Health (15<sup>th</sup> Edition, 2016), named Principi di Calcolo Farmaceutico, a cura di G. Colombo, P. Russo, A. Rossi, F. Sonvico

*I hereby authorize the processing of the personal data contained in this CV in compliance with the Italian Personal Data Protection Code (Legislative Decree no. 196 of 30 June 2003)*

Venice (Italy), March 9th, 2019

*Laura Tiozzo Fasiolo*