

**FORMATO EUROPEO
PER IL CURRICULUM
VITAE**



PERSONAL INFORMATION

Name **MASSANO, MARTA**
E-mail **marta.massano@unito.it**
Date of birth **11/07/1996**
Nationality **Italian**

**WORK EXPERIENCE AND
INTERNSHIPS**

- Date (from – to) **1/08/2019 – 31/08/2019**
• Name e address **ASL Città di Torino, via San Secondo 29 10128 Torino - TORINO (TO) ITALIA**
• Type of company and sector **Forensic Medicine**
• Type of employment **Curricular internship consisting of assisting professional forensic doctor Dr. Testi Roberto**
• Main tasks or responsibilities **Observation and assistance in the activity of autopsy and Thanatological investigation, learning techniques and working methods in the medico-legal, criminalistics and Forensic Toxicology laboratories.**

- Date (from – to) **1/07/2020 – 16/12/2020**
• Name e address **Centro Regionale Antidoping "A. Bertinaria" di Orbassano**
• Type of company and sector **Forensic toxicology**
• Type of employment **Thesis internship.**
• Main tasks or responsibilities **During my internship I carried out toxicological analyses on conventional biological matrices (blood and urinary matrix) and non-conventional matrices (keratin matrix, encephalic matrix and others), I learnt the techniques and procedures carried out in laboratory routines and I experienced the use of instruments for the identification and quantification of psychotropic substances (HPLC and UHPLC coupled with high and medium resolution mass spectrometers; Applied Biosystem API 5500 and X500R QTOF mass spectrometer)**

- Date (from – to) **1/02/2021 – 31/05/2021**
• Name e address **Centro Regionale Antidoping "A. Bertinaria" di Orbassano**
• Type of company and sector **Forensic toxicology**
• Type of employment **Scholarship for research activities within the project "*Analysis of New Psychoactive Substances in unconventional biological matrices*"**
• Main tasks or responsibilities **The research activity consisted in the development of innovative analytical approaches useful for the identification of New Psychoactive Substances (NSPs) in unconventional biological samples. For this purpose, instrumentation based on high-resolution mass spectrometry (SCIEX X500R QTOF mass spectrometer) was used and the most suitable biological matrices were selected. Particular attention is paid to the keratin matrix.**

- Date (from – to) **14/06/2021 – 1/11/2021**
• Name e address **Centro Regionale Antidoping "A. Bertinaria" di Orbassano**
• Type of company and sector **Forensic toxicology**
• Type of employment **Scholarship for research activities within the project "*Innovative approaches to understanding the prevalence of new psychoactive substances in the population*"**

- Main tasks or responsibilities
 - Date (from - to) **1/10/2023 – 23/12/2023**
 - Name e address Department of Pharmacy and Forensic Medicine, University of Zurich
 - Type of company and sector **Forensic toxicology**
 - Type of employment Activity period abroad under the project ***“Application of untargeted metabolome approach to screen for biomarker of nitrite intake and/or poisoning”***
- Main tasks or responsibilities
 - Date (from - to) **1/10/2023 – 23/12/2023**
 - Name e address Department of Pharmacy and Forensic Medicine, University of Zurich
 - Type of company and sector **Forensic toxicology**
 - Type of employment Activity period abroad under the project ***“Application of untargeted metabolome approach to screen for biomarker of nitrite intake and/or poisoning”***
- Main tasks or responsibilities
 - Date (from - to) **1/10/2023 – 23/12/2023**
 - Name e address Department of Pharmacy and Forensic Medicine, University of Zurich
 - Type of company and sector **Forensic toxicology**
 - Type of employment Activity period abroad under the project ***“Application of untargeted metabolome approach to screen for biomarker of nitrite intake and/or poisoning”***

ACTIVITY

- Date (from – to) **27/09/2019 – 29/09/2019**
 - Place Trieste (IT)
 - Type of activity **Participation in three days of conferences focusing on the topic of 'Big Data' and artificial intelligence**
- Date (from – to) **28/10/2019**
 - Place Circolo dei lettori, Via Giambattista Bogino, 9, 10123 Torino TO
 - Type of activity **Participation in the seminar 'PSYCHOPATHIC SUBSTANCES, SYNTHETIC DRUGS AND DRUGS'.**
- Date (from – to) **10/06/2021 - 11/06/2021**
 - Place Symposium online
 - Type of activity **Partecipation to “12th Symposium on Workplace Drug Testing (EWDTS) “Online” Symposium”**
- Date (from – to) **31/08/2021 - 3/09/2021**
 - Place Online conference
 - Type of activity **Participation with exposure to the “MSACL 2021 EU 7th European Congress”**
- Date (from – to) **19/05/2022 - 20/05/2022**
 - Place Basilea, Svizzera
 - Type of activity **Partecipation to “PEth in Mind Symposium”** During the meeting, the guidelines for the research and determination of the biomarker of alcohol abuse Phosphatidyl Ethanol (Peth) were harmonised, and “the 2022 Basel Consensus Document on PEth (DOI: 10.1002/dta.3340)” was approved, acknowledged and unanimously voted for by the congress participants.
- Date (from – to) **5/09/2022 - 8/09/2022**
 - Place Versailles, Francia
 - Type of activity **Participation with exposure to the “TIAFT 2022 VERSAILLES ROYAL MEETING The 59th Annual Meeting of the International Association of Forensic Toxicologists”**
- Date (from – to) **3/10/2022 - 5/10/2022**
 - Place Online conference
 - Type of activity **Partecipation to “Forensic science symposium 2022”**
- Date (from – to) **28/06/2023 - 30/06/2023**
 - Place Torino, Italia
 - Type of activity **Participation with exposure to the “Convegno Massa 2023” (Divisione Spettrometria di Massa della Società Chimica Italiana SCI)”**

- Date (from – to) **27/08/2023 - 31/08/2023**
 - Place Roma, Italia
- Type of activity **Participation with exposure to the “TIAFT 2023 ROMA The 60th Annual Meeting of the International Association of Forensic Toxicologists”**
- Date (from – to) **29/11/2023**
 - Place Online
- Type of activity **Participation to the Virtual Seminar entitled “Improving NPS forensic testing with metabolite profiling”**

PUBLICATIONS

- JULY 2021
Simultaneous determination of 137 drugs of abuse, new psychoactive substances, and novel synthetic opioids in meconium by UHPLC-QTOF
Ángela López-Rabuñal, Daniele Di Corcia, Eleonora Amante, Marta Massano, Angelines Cruz-Landeira, Ana de-Castro-Ríos, Alberto Salomone
 Analytical and Bioanalytical Chemistry
<https://doi.org/10.1007/s00216-021-03533-y>
- FEBRUARY 2022
Development and validation of a UHPLC-HRMS-QTOF method for the detection of 132 New Psychoactive Substances and synthetic opioids, including fentanyl, in Dried Blood Spots
Marta Massano, Carola Incardona, Enrico Gerace, Pierre Negri, Eugenio Alladio, Alberto Salomone, Marco Vincenti
Talanta
<https://doi.org/10.1016/j.talanta.2022.123265>
- SEPTEMBER 2022
Phosphatidylethanol (Peth) in Dried Blood Spots: Development, validation and comparison between LC-MS/MS and QTOF methods
Christina Ververi, Marta Massano, Enrico Gerace, Eugenio Alladio, Marco Vincenti, Alberto Salomone
Toxicologie Analytique et Clinique
 DOI: [10.1016/j.toxac.2022.06.065](https://doi.org/10.1016/j.toxac.2022.06.065)
- FEBRUARY 2023
Metabolic study of new psychoactive substance methoxpropamine in mice by UHPLC-QTOF-HRMS
Marta Massano, Enrico Gerace, Martina Borsari, Micaela Tirri, Christina Ververi, Eugenio Alladio, Marco Vincenti, Alberto Salomone
Drug Testing and Analysis
<https://doi.org/10.1002/dta.3449>
- March 2023
Wastewater surveillance of 105 pharmaceutical drugs and metabolites by means of ultra-high-performance liquid-chromatography-tandem high resolution mass spectrometry
Marta Massano, Alberto Salomone, Enrico Gerace, Eugenio Alladio, Marco Vincenti, Marco Minella
Journal of Chromatography A
<https://doi.org/10.1016/j.chroma.2023.463896>
- 2023
Publication of a technical note (SCIEX): Nontargeted acquisition with targeted and suspect screening of pharmaceutical drugs and their metabolites in wastewater
Marta Massano, Alberto Salomone, Holly Lee
 SCIEX site

- July 2023

Detection of fentanyl, synthetic opioids, and ketamine in hair specimens from purposive samples of American and Italian populations

Alberto Salomone, Martina Galletto, Marta Massano, Daniele Di Corcia, Joseph J. Palamar, Marco Vincenti

Journal of forensic science

<https://doi.org/10.1111/1556-4029.15348>
- November 2023

Trends in Reported and Biologically Confirmed Drug Use Among People Who Use Ecstasy in the Nightclub/Festival-Attending Population, 2016-2022

Joseph J. Palamar, Alberto Salomone, Marta Massano, Charles M. Cleland

Drug and Alcohol Dependence Reports

<https://doi.org/10.1016/j.dadr.2023.100198>
- November 2023

Five cases of unintentional exposure to BZO-4en-POXIZID among nightclub attendees in New York City

Joseph J. Palamar, Marta Massano, Alberto Salomone

Journal of Analytical Toxicology

<https://doi.org/10.1093/jat/bkad086>
- January 2024

Method development for the quantification of nine nitazene analogs and bupropion in Dried Blood Spots utilizing liquid chromatography - tandem mass spectrometry

Christina Ververi, Martina Galletto, Marta Massano, Eugenio Alladio, Marco Vincenti, Alberto Salomone

Journal of Pharmaceutical and Biomedical Analysis

<https://doi.org/10.1016/j.jpba.2024.115975>

EDUCATION AND TRAINING

- Date 1/11/2021- Today
 - Name and type of educational or training institution **PhD in Sustainable development and cooperation** at the University of TURIN
 - Project ***“Pharmaceutical and illicit drugs in civil wastewater as a tool for the investigation of the human society sustainability and its impact on the environment”***
- Date 17/12/2020
 - Name and type of educational or training institution University of TURIN – Chemistry Department
 - Qualification obtained **Master's Degree in Clinical Forensic and Sport Chemistry**
 - Vote **110/110 with distinction and mention**
 - Thesis title *“Development and validation of a method in UHPLC-ESI-MS/MS for the determination of Δ^9 -tetrahydrocannabinol and its metabolites in the brain”*
- Date 11/10/2018
 - Name and type of educational or training institution University of TURIN – Chemistry Department
 - Qualification obtained **Bachelor's degree in Chemistry and Chemical Technology**
 - Vote **105/110**
 - Thesis title *“Isotopic and NMR studies in food investigation”*
- Date **A.S. 2014-2015**
 - Name and type of educational or training institution **Scientific high school Charles Darwin (Rivoli, TO)**

- Qualification obtained **Diploma**
- Vote **88/100**

PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE	ITALIAN
OTHER LANGUAGE LEVEL	ENGLISH B2
DIGITAL SKILLS AND COMPETENCES	<ul style="list-style-type: none">- INFORMATION PROCESSING: AUTONOMOUS USER- COMMUNICATION: AUTONOMOUS USER- CONTENT CREATION: AUTONOMOUS USER- SECURITY: BASIC USER- TROUBLESHOOTING: BASIC USER
COMPUTER SKILLS AND COMPETENCES.	<ul style="list-style-type: none">- OPERATING SYSTEMS: FAIR- WORD PROCESSING (MICROSOFT WORD): GOOD- SPREADSHEETS (EXCEL): GOOD- DATABASE MANAGERS: GOOD- INTERNET BROWSING: GOOD- MULTIMEDIA (SOUND, IMAGES, VIDEO): GOOD- PRESENTATION PREPARATION (POWER POINT): GOOD