

PERSONAL INFORMATION

Anna Carfora



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CF: CRF NNA 78M60 E791S

Sex F | Birth date 20/08/1978 | Birth place Maddaloni (CE) | Nationality ITALIAN

ACTUAL WORK POSITION

Researcher (art. 24 c.3-a L. 240/10) in Legal Medicine (SSD MED/43) Department of Experimental Medicine, University of Campania “Luigi Vanvitelli”

WORK EXPERIENCE

Since 16.10.2020

**Responsible of Laboratory of Forensic Toxicology, Department of Experimental Medicine, University of Campania “Luigi Vanvitelli”**

Service of Chemistry Toxicological Diagnosis, AOU “Luigi Vanvitelli”, Naples

Since 2013

**CTU, Forensic Toxicologist activity on biological and non-biological materials**

Judicial offices in Campania (Procura della Repubblica di Napoli, Santa Maria Capua Vetere, Benevento, Torre Annunziata, Napoli Nord e Nola) and Molise (Procura della Repubblica di Campobasso) regions.

From 16.09.2009 to 15.09.2020

**Tecnician chemistry- biological**

Department of Experimental Medicine, University of Campania “Luigi Vanvitelli”, Naples

From 01.10.2008 to 30.09.2009

**Research fellow (art. 51, c.6, L.449/1997 (D.D. n.48 08/08/2008)), in Ecotoxicology Project FISR “CARBOITALY”.**

Department of Sciences of the Forest Environment and its Resources, University of Tuscia in Viterbo, Viterbo

From 29.04.2008 to 19.05.2008

**Scientific Collaboration, Project "ACCENT-BIAFLUX Exchange of Staff 2007" - Ecotoxicology: “Pulses of NOx/N<sub>2</sub>O emissions from soils of seasonally-dry ecosystems from the tropical and Mediterranean areas”**

CEH (Centre for Ecology & Hydrology), Edinburgh, United Kingdom

From 01.07.2007 to 30.06.2008

**Research fellow (art. 51, c.6, L.449/1997 (D.R. n. 397 del 07/02/2007)), in Ecotoxicology Project FISR “CARBOITALY”**

Department of Environmental Science, University of Campania “Luigi Vanvitelli”, Caserta

From 01.03.2005 to 28.02.2006

**Research fellow (art. 51, c.6, L.449/1997 (D.R. n. 4278 del 03/12/2004)), in Ecotoxicology Project Italy-USA “CarbolUS”**

Department of Environmental Science, University of Campania “Luigi Vanvitelli”, Caserta

EDUCATION AND TRAINING

- 28.01.2013 **Master II level in “Diagnostic of Chemistry-Tossicological Laboratory for medico-legal purposes”**  
Institute of Legal Medicine, University of Campania “Luigi Vanvitelli”, Naples
- 04.02.2009 **Doctoral Graduate (Ph.D.) in Applied Biology - XXI cycle**  
Department of Structural and Functional Biology, University of Naples “Federico II, Naples
- From 02.10.2006 to 13.10.2006 **Summer School: “Methods to Study Microbial Nitrogen Turnover and the Formation of Greenhouse Gases”**  
Federal Research and Training Centre for Forests, Natural Hazards and Landscape (BFW), Vienna, Austria
- 27/02/2004 **Master Degree (M.D.) in Environmental Science (110/110)**  
Faculty of Environmental Science, University of Campania “Luigi Vanvitelli”, Caserta

TEACHING EXPERIENCE

- a.a. 2020/2021 Teaching activity in University of Medicine and Surgery ( University of Campania, Naples) and undergraduate and specialist courses for the health professions:
  - Legal Medicine in the Integrated Course "Methodologies for professional practice and Bioethics", Biomedical Laboratory Techniques of the University of Campania "Luigi Vanvitelli" (2CFU / 20 hours) and in AORN, Cardarelli, Naples (2CFU / 20 hours) .
  - Forensic Toxicology in the Integrated Course "Toxicology applied to the environment and workplaces", Techniques of prevention in the environment and in the workplace of the University of Campania "Luigi Vanvitelli" - Naples (2 CFU / 25 hours) .
  - Forensic Toxicology in the Integrated Course "Legal and Occupational Medicine", Degree Course in Medicine and Surgery of the University of Campania "Luigi Vanvitelli" - Naples branch (1CFU / 2 hours) and Caserta branch (1CFU / 4 hours).
- a.a. 2020/2021 Specialization School in Legal Medicine at the School of Medicine of the University of Campania Teaching activity (ADF) in I Anno (1CFU/25 ore), in II Anno (1CFU/25 ore), in III Anno (1CFU/25 ore) and in IV Anno (2CFU/50 ore); Professionalizing Training Activities (ADP) in I Anno (4CFU/120 ore) and in II Anno (5CFU/150 ore).
- a.a. 2018/2019 Professionalizing Training Activities of the School of Specialization in Forensic Medicine of the University of Campania "L. Vanvitelli" (Prof. Carlo Pietro Campobasso) in the first year (4CFU / 120 hours) and in the second year (5CFU / 150 hours).
- a.a. 2017/2018 Legal Medicine I in Master II Level in “Veterinary Forensic Sciences” at the Department of Veterinary Medicine and Animal Production, Federico II, Naples.
- dal 2016 Support teaching and participation in the Examination Commission in the Degree Course in Medicine and Surgery of the University of Campania "Luigi Vanvitelli" - Naples and Caserta (Prof. Renata Borriello).
- dal 2014 Theoretical-practical support teaching in the Degree Course in Biomedical Laboratory Techniques of the University of Campania "Luigi Vanvitelli" and at the A.O.R.N., Cardarelli, Naples. (Prof. Paola Cassandro).
- a.a. 2007/2008 Tutoring activities (laboratory and field exercises) for the courses of Ecotoxicology, Biomonitoring and Environmental Risk Assessment in the Degree Course in Environmental Sciences, University of Campania "Luigi Vanvitelli", Caserta (Prof.ssa Simona Castaldi)

PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE  
OTHER LANGUAGE

Italian  
English

- Reading skills                      Excellent
- Writing skills                        Excellent

- Oral expression skills Good

**TECHNICAL SKILLS (WORD, EXCEL, POWERPOINT, ACCESS)**

COMPUTER KNOWLEDGE EXCELLENT KNOWLEDGE OF MS OFFICE  
 Windows 10, 8, Vista, 2007, 2000 / XP  
 Word, Excel, Access, PowerPoint  
 Sigma Stat 3.2, Sigma Plot 9.0  
 Google Chrome, Internet Explorer, Outlook Express  
 Adobe Photoshop, Corel Draw  
 ESRI ArcView 3.x/ 8.x, ArcGis 9.2, Intergraph GeoMedia Professional 4.0/5.1

**DRIVING LICENSE OR DRIVING LICENSES**

B (European driving license)

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**Referee for journal:**

- Forensic Science International;
- Australian Journal of Forensic Sciences;
- Traffic Injury Prevention;
- Molecules;
- Journal of Forensic Sciences and Digital Investigation;
- Journal of Medicine and Life.

**Publications**

**Carfora A\***, Campobasso CP, Cassandro P, Petrella R, Borriello R (2020). Long detection in hair of zolpidem, oxazepam and flunitrazepam in a case of DFSA. Journal of Analytical Toxicology, <https://doi.org/10.1093/jat/bkaa174>

**Carfora A\***, Petrella R, Borriello R, Gagliano-Candela R, Aventaggiato L, Campobasso CP (2020). Fatal poisoning by ingestion of a self-prepared oleander leaves infusion. Forensic Science, Medicine and Pathology, <https://doi.org/10.1007/s12024-020-00338-w>

Feola A, Marella GL, **Carfora A\***, Della Pietra B, Zangani P, Campobasso CP (2020). Snakebite Envenoming a Challenging Diagnosis for the Forensic Pathologist: A Systematic Review. Toxins: Special Issue "Novel Strategies for the Diagnosis and Treatment of Snakebites" 12(11), 699; <https://doi.org/10.3390/toxins12110699>

**Carfora A\***, Borriello R, Cassandro P, Petrella R, Campobasso CP (2020). Alcohol and drug use in drug-related deaths in Campania (Italy): a snapshot study over the years 2008-2018. Journal of Integrated OMICS: Vol. 10 (2), No 334: 10-14. <https://doi.org/10.5584/jiomics.v10i2.334>

Campobasso CP, Bugelli V, **Carfora A**, Borriello R, Villet, Mh (2019). Advances in Entomotoxicology: weaknesses and strengths. Chapter 13 in Forensic Entomology: the utility of arthropods in legal investigations, third edition (a cura di: Byrd J.H., Tomberlin J.K.) p. 305-330, Boca Raton, USA: CRC Press, Taylor and Francis Group, ISBN: 9780815350200.

**Carfora A\***, Campobasso CP, Cassandro P, La Sala F, Maiellaro A, Perna A, Petrella R, Borriello R (2019). Fatal inhalation of volcanic gases in three tourists of a geothermal area. Forensic Science International: 297, e1–e7; <https://doi.org/10.1016/j.forsciint.2019.01.044>

**Carfora A\***, Campobasso CP, Cassandro P, Petrella R, Borriello R (2018). Alcohol and drugs use among drivers injured in road accidents in Campania (Italy). A 8-Years retrospective analysis. Forensic Science International: 288, p. 291–296; <https://doi.org/10.1016/j.forsciint.2018.05.003>

**Carfora A\***, Cassandro P, Feola A, La Sala F, Petrella R, Borriello R (2018). Ethical implications in vaccine pharmacotherapy for treatment and prevention of drug of abuse dependence. Journal of Bioethical Inquiry: Vol.15, p. 45-55; <https://doi.org/10.1007/s11673-017-9834-5>

- Feola A, Cassandro P, **Carfora A**, Petrella R, Giordano C, Stefanizzi IM, Borriello R (2017). Suicides in physicians: Two cases of poisoning involving fentanyl and phenobarbital. *Minerva Psichiatrica*: vol. 58 (2), p. 103-109, ISSN: 03911772; <https://doi.org/10.23736/S0391-1772.17.01931-8>
- Santangelo B, Micieli F, Marino F, Reynaud F, Cassandro P, **Carfora A**, Petrella R, Borriello R, Cataldi M, Vesce G, 2016. Plasma concentrations and sedative effects of a dexmedetomidine, midazolam, and butorphanol combination after transnasal administration in healthy rabbits. *Journal of Veterinary Pharmacology and Therapeutics*: Vol. 39, No 4: 1-4; <https://doi.org/10.1111/jvp.12282>
- Borriello R, **Carfora A**, Petrella R, Cassandro P, 2016. Ethical approach and professional responsibility in workplace drug testing: An update on the effectiveness of the Italian current legislation. *European Journal of Forensic Sciences*: Vol. 3, No 1: 1-5. <https://doi.org/10.5455/ejfs.189438>
- Borriello R, **Carfora A**, Cassandro P, Petrella R, 2015. Clinical and Forensic Diagnosis of Very Recent Heroin Intake by 6-acetylmorphine Immunoassay Test and LC-MS/MS Analysis in Urine and Blood. *Annals of Clinical & Laboratory*: Vol. 45, No 4: 414-418. ISSN: 0091-7370.
- Borriello R, **Carfora A**, Petrella R, Cassandro P, 2014. Prima identificazione in Italia del cannabinoide sintetico AM-694 quale "additivo" in un sequestro di Cannabis da fibra. *Italian Journal on Addiction*: Vol. 4, Numero 1: 92-96.
- Borriello R, **Carfora A**, Cassandro P, Petrella R, 2014. A five study on drug-related deaths in Campania (Italy). *Ann Ist Super Sanità*: Vol. 50, No 4: 328-332. [https://doi.org/10.4415/ANN\\_14\\_04\\_06](https://doi.org/10.4415/ANN_14_04_06)
- Rossi F, Borriello R, **Carfora A**, Cassandro P, De Novellis V, Maione S, Fabozzi A, 2011. COCAINE USE AND EFFECTS Scientific and statistical dossier.
- Carfora A**, Castaldi S, Vigliotti M, Valentini R, 2010. Disaggregated estimation of N<sub>2</sub>O fluxes from agricultural soils of the Italian region by modelization in GIS environment. Chapter 21 in: Dobesch H., Dumolard P., Dyras I. (Eds). "Spatial Interpolation for Climate Data. The Use of GIS in Climatology and Meteorology", ISTE Ltd, London, pp 265-276.
- Rutigliano FA, Castaldi S, D'Ascoli R, Papa S, **Carfora A**, Marzaioli R, Fioretto A, 2009. Soil activities to nitrogen cycle under three plant cover types in Mediterranean environment. *Applied Soil Ecology*, 43: 40-46. <https://doi.org/10.1016/j.apsoil.2009.05.010>
- Castaldi S, **Carfora A**, Fiorentino A, Natale A, Messere A, Miglietta F, Cotrufo MF, 2009 Inhibition of net nitrification activity in a Mediterranean woodland: possible role of chemicals produced by "Arbutus Unedo". *Plant and Soil* 315: 273–283. <https://doi.org/10.1007/s11104-008-9750-x>
- Fiorentino A, Castaldi S, D'Abrosca B, Natale A, **Carfora A**, Messere A, Monaco P, 2007. Polyphenols from the hydroalcoholic extract of Arbutus Unedo living in a monospecific Mediterranean woodland. *Biochemical Systematics and Ecology*, 35, pp.809-811. <https://doi.org/10.1016/j.bse.2007.04.005>
- Carfora A**, Cassandro P, Cucciardi A, Duro I, Petrella R, Russello L, Borriello R 2014. "Monitoraggio del Tramadolo su saliva (LC-MS/MS) nella gestione del dolore in chirurgia. Protocolli e responsabilità". In Volume Atti del Congresso "Etica, Deontologia e responsabilità nelle attività chirurgiche, Comitato Etico, Università Federico II (Napoli, 12-13 Giugno 2014), pag 322-328.
- Castaldi S, **Carfora A**, Vigliotti M, Valentini R, 2005. "A GIS based application of the IPCC protocol for the estimation of N<sub>2</sub>O emissions from agricultural ecosystems of the Italian region". In *Ecologia. Atti del XV Congresso Nazionale della Società Italiana di Ecologia "Ambiente, risorse e sviluppo"* (Torino, 12-14 settembre 2005) URL: <http://www.xvcongresso.societaitalianaecologia.org/articles/Castaldi-40.pdf>
- Castaldi S, **Carfora A**, D'ascoli R, Rutigliano FA, 2005. "Comparison of risk based on laboratory benchmark value of effect with field-based hazard quotient ratio for soil microbial endpoints". In *Ecologia. Atti del XV Congresso Nazionale della Società Italiana di Ecologia "Ambiente, risorse e sviluppo"* (Torino, 12-14/09/2005) URL: <http://www.xvcongresso.societaitalianaecologia.org/articles/Castaldi-174.pdf>

**Carfora A**, Castaldi S, D'ascoli R, Rutigliano FA, 2004. "Impact of heavy metal pollution on microbial processes involved in soil N transformations". In Ecologia. Atti del XIV Congresso Nazionale della Società Italiana di Ecologia "Conservazione e Gestione degli Ecosistemi" (Siena, 4-6 ottobre 2004) [online] URL: <http://www.xivcongresso.societaitalianaecologia.org/articles/Carfora-78.pdf>

Castaldi S, **Carfora A**, D'ascoli R, Rutigliano FA, 2004. "Spatial variability of microbial processes involved in N transformations in a Mediterranean maquis ecosystem". In Ecologia. Atti del XIV Congresso Nazionale della Società Italiana di Ecologia "Conservazione e Gestione degli Ecosistemi" (Siena, 4-6 ottobre 2004) [online] URL: <http://www.xivcongresso.societaitalianaecologia.org/articles/Castaldi-76.pdf>

**Highlighted in bold and underlined the position of the author as first, second and corresponding \***

MEMBERSHIP in SCIENTIFIC SOCIETIES

**since 09/09/2019**: Italian Society of Legal Medicine (**SIMLA**);  
**since 01/01/2016**: Italian Group of Forensic Toxicologist (**GTFI**);  
**since 01/04/2011**: Associate Member of "The International Association of Forensic Toxicologists" (**TIAFT**);  
**01/01/2011-31/12/2015**: Coordinator of **Young Section-GTFI**;

I give the authorization for the treatment of my personal data according to Italian Law D. Lgs. 196/2003.

NAPLES, 04/12/2020

Signature

