

## CLAUDIO MEDANA

short CV

1966. Born in Turin, Italy. 1990. Pharmaceutical Chemistry degree. 1991. Mario Negri Institute, Milan Laboratory of environmental toxicology fellowship. 1992. Pharmacy degree. 1993-2001: researcher at drug science and technology department; 2001-2016: associate professor of medicinal chemistry; 2016-today: associate professor of analytical chemistry, Turin University.

Present teaching: Analytical Chemistry (Department of Molecular Biotechnology) Analytical Chemistry in Sport Doping and Toxicology (Department of Chemistry). Research activity (2001-2012): Analytical Chemistry department.

Present address (2013-today): Molecular Biotechnology and Health Sciences department. Research area: HPLC-MS of bio-active and toxic compounds (pharmaceutics, food, environment and biochemistry). 100 papers on ISI journals.

### Selected recent publications:

C. Medana, P. Calza, V. Giancotti, F. Dal Bello, M. Pasello, M. Montana and C. Baiocchi.

Horse metabolism and the photocatalytic process as a tool to identify metabolic products formed from dopant substances: the case of sildenafil

*Drug Testing and Analysis* **3**, 724-734 (2011). doi: 10.1002/dta.334

P. Calza, C. Medana, E. Padovano, V. Giancotti, C. Baiocchi

Identification of the unknown transformation products derived from clarithromycin and carbamazepine using liquid chromatography/high-resolution mass spectrometry

*Rapid Communications in Mass Spectrometry* **26**, 1687-1704 (2012). doi: 10.1002/rcm.6279

S. Visentin, G. Ermondi, C. Medana, N. Pedemonte, L. Galiotta and G. Caron.

Ligand-based design, in silico ADME-Tox filtering, synthesis and biological evaluation to discover new soluble 1,4-DHP-based CFTR activators

*European Journal of Medicinal Chemistry* **55**, 188-194 (2012). doi: 10.1016/j.ejmech.2012.07.017

Sakkas VA, Calza P, Medana C, Vlachou AD, Dal Bello F, Albanis T

Chemometric assessment and investigation of mechanism involved of photo-Fenton and TiO<sub>2</sub> photocatalytic processes of the artificial sweetener sucralose in aqueous media

*Applied Catalysis B: Environmental* **129**, 71-79 (2013). doi: 10.1016/j.apcatb.2012.08.043

V. Mugoni, R. Postel, V. Catanzaro, E. De Luca, E. Turco, G. Digilio, L. Silengo, M.P. Murphy, C. Medana, D.Y.R. Stainier, J. Bakkens and M. M. Santoro

Ubiad1 is an antioxidant enzyme that regulates eNOS activity by CoQ10 synthesis

*Cell*, **152**, 504-518 (2013). doi: 10.1016/j.cell.2013.01.013.

C. Medana, P. Calza, V. Giancotti, F. Dal Bello, M. Aragno and C. Baiocchi.

Study of photocatalytic transformation of synephrine, a biogenic amine relevant in anti-doping analysis

*Analytical and Bioanalytical Chemistry* **405**, 1105-1113 (2013). doi: 10.1007/s00216-012-6593-3

P.G. Peiretti, F. Gai, M. Ortoffi, R. Aigotti and C. Medana.

Effects of rosemary oil on the shelf-life of minced rainbow trout (*Oncorhynchus mykiss*) during refrigerated storage

*Foods* **1**, 28-39 (2012). doi: 10.3390/foods1010028

C. Medana, P. Calza, F. Dal Bello and C. Baiocchi.

LC-HRMS determination of anti-cancer drugs as occupational contaminants applied to photocatalytic degradation of molecules of different stability

*LCGC and Spectroscopy – Current Trends in Mass Spectrometry* **2013**, 30-37 (2013).

V. Mugoni, C. Medana and M M. Santoro

<sup>13</sup>C-isotope based protocol for prenyl lipid metabolic analysis in zebrafish embryos

*Nature Protocols* **8**, 2337-2347 (2013). doi: 10.1038/nprot2013139

P. Calza, C. Medana, M. Sarro, C. Baiocchi, V. Rosato, R. Aigotti, C. Baiocchi, C. Minero

Photocatalytic Degradation degradation of selected anticancer drugs and identification of their transformation products in water by liquid chromatography-high resolution mass spectrometry

*Journal of Chromatography A*: **1362**, 135-144 (2014). doi: 10.1016/j.chroma.2014.08.035

C. Martano, V. Mugoni, F. Dal Bello, M.M. Santoro, C. Medana

Rapid high performance liquid chromatography-high resolution mass spectrometry methodology for multiple prenyl lipids analysis in zebrafish embryos

*Journal of Chromatography A*: **1412**, 59-66 (2015). doi:10.1016/j.chroma.2015.07.115

D. Minerdi, I. Zgrablic, S. Castrignanò, G. Catucci, C. Medana, M.E. Terlizzi, G. Gribaudo, G. Gilardi, S.J. Sadeghi

*Escherichia coli* overexpressing a Baeyer-Villiger monooxygenase from *Acinetobacter radioresistens* becomes resistant to Imipenem

*Antimicrobial Agents and Chemotherapy* **60**, 64-74 (2015). doi:10.1128/AAC.01088-15

F. Dal Bello, V. Santoro, V. Scarpino, C. Martano, R. Aigotti, A. Chiappa, E. Davoli and C. Medana

Antineoplastic drugs determination by HPLC/HRMSn to monitor occupational exposure

*Drug Testing and Analysis* **8**, 730-737 (2016). doi:10.1002/dta.1827

C. Medana, R. Aigotti, C. Sala, F. Dal Bello, V. Santoro, D. Gastaldi, C. Baiocchi.

Analysis of nicotine alkaloids and impurities in liquids for e-cigarettes by LC-MS, GC-MS and ICP-MS.

*LCGC and Spectroscopy – Current Trends in Mass Spectrometry* **14**, 20-28 (2016)

D. Fabbri, P. Calza, D. Dalmaso, P. Chiarelli, V. Santoro, C. Medana.

Iodinated X-ray contrast agents: photoinduced transformation and monitoring in surface water.

*Science of the Total Environment* **572**, 340–351 (2016). doi: 10.1016/j.scitotenv.2016.08.003