

PELIN, MARCO

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1. Personal data

Name and surname: Marco Pelin

Date of birth: 01.02.1983

Place of birth: Trieste (Italy)

Nationality: Italian

2. Education

2018: National Scientific Qualification (ASN) as Associate Professor in Pharmacology (SSD BIO/14) by the Italian Ministry of Education, University and Research (MIUR).

2015: Course in “Human ES/iPS cell research” (Miltenyi Biotec, Bergisch Gladbach, Germany).

2015: Postgraduate course in Food Safety (University of Milano and Università Cattolica del Sacro Cuore, Italy).

2012: PhD in Chemical and Pharmaceutical Sciences and Technologies XXIV cycle. Thesis title: “Toxicological effects of palytoxin and other compounds after cutaneous exposure” (University of Trieste, Italy).

2010: Postgraduate course in Phytotherapy (University of Trieste, Italy).

2007: Master Degree in Pharmaceutical Chemistry and Technology. Thesis title: “Effects of the human beta-defensin hBD2 on ROS production by Antigen Presenting Cells” (110/110 cum laude) (University of Trieste, Italy).

3. Professional experience

Present

2021 – now: Assistant professor (Ricercatore a tempo determinato di tipo B, RTD-B) at the Department of Life Science, University of Trieste, Italy.

Previous

2016 – 2021: Assistant professor without tenure-track (Ricercatore a tempo determinato di tipo A, RTD-A) at the Department of Life Science, University of Trieste, Italy.

April 2016: Visiting researcher (School of Medicine, Shinshu University, Japan).

2013 – 2016: Post-doc (Toxicology group, Department of Life Sciences, University of Trieste, Italy).

2012 – 2013: Post-doc (Pharmacogenomic group, Department of Life Sciences, University of Trieste, Italy).

2009 – 2012: PhD student (Toxicology group, Department of Life Sciences, University of Trieste, Italy).

2008 – 2009: Research fellowship (Toxicology group, Department of Life Sciences, University of Trieste, Italy).

4. Teaching activities

2022 – now: Course of Pharmacology and Pharmacotherapy – 8 CFU/64 hours (Master Degree in Pharmaceutical Chemistry and Technology)

2021 – now: Course of Toxicology and Pharmacovigilance – 2 CFU/16 hours (Master Degree in Pharmacy)

2020 – now: Course of Toxicology and Pharmacovigilance – 6 CFU/48 hours (Master Degree in Pharmaceutical Chemistry and Technology)

- 2017 – 2021: Course of Toxicology of Natural Substances (Master Degree in Pharmacy)
- 2016 – 2020: Course of Environmental Toxicology (Master Degree in Ecology of Global Changes)
- 2018 – now: Co-supervisor of 3 PhD students (PhD in Environmental Life Sciences and PhD in Reproduction and Developmental Sciences)
- 2018 – now: Supervisor of 9 Master Degree students in: Pharmaceutical Chemistry and Technology (7), Pharmacy (1), Ecology of Global Changes (EGC; 1)
- 2009 – now: Co-supervisor of 27 Master Degree students in: Pharmacy (12), Pharmaceutical Chemistry and Technology (9), Medical Biotechnology (3), Functional Genomic (1), EGC (1), Biomedical Laboratory Techniques (1)

5. Financial supports

- 2020: Principal investigator of the University of Trieste unit of the project “Hazard characterization of graphene-based nanomaterials in energy production and storage (Graphazard)” financed by the SAF€RA2020 call.
- 2020: Principal investigator of the project “Tuning graphene-based materials effects on stem cells for regenerative medicine (StemGraph)” financed by the Microgrant project of the University of Trieste (Microgrant 2020).
- 2020: Member of the project “Graphene Flagship - Core 3, WP4 Health and Environment” supported by European Community’s Horizon2020 framework programme (H2020/2014-2020).
- 2019: Principal investigator of the project “Biocompatibility of novel 3D nanostructured scaffolds with human induced pluripotent stem cells (iPSCs)” financed by the Microgrant project of the University of Trieste (Microgrant 2018).
- 2018: Recipient of the Grant “Fondo per il Finanziamento delle Attività Base di Ricerca (FFABR) 2017” financed by the Italian Ministry of Education, University and Research.
- 2018: Member of the project “Graphene Flagship - Core 2, WP4 Health and Environment” supported by European Community’s Horizon2020 framework programme (H2020/2014-2020).
- 2018: Member of the project “Evaluation and characterization of the toxic effects of ovatoxin-a, an emerging marine toxin of the Mediterranean Sea”, financed by the University of Trieste (FRA 2018).
- 2016: Member of the project “Graphene Flagship-Core 1, WP4 Health and Environment” supported by European Community’s Horizon2020 framework programme (H2020/2014-2020).
- 2012: Member of the project “Dermotoxicity of palytoxin, an emerging problem in the Mediterranean Sea”, granted by the University of Trieste (FRA 2012).
- 2010: Member of the project “Toxicity of algal biotoxins and integrated study on their presence in algae and mussels”, granted by the Italian Ministry of Education, University and Research (PRIN 2009).
- 2008: Member of the project “Investigation of the toxicity of algal biotoxins in Italian seas”, granted by the Italian Ministry of Education, University and Research (PRIN 2007).

6. Research awards

- 2018: Travel grant for Young Scientists from the Italian Society of Pharmacology to attend the “1st Meeting in Translational Pharmacology” (Santiago de Compostela, Spain, 19-22/06/2018).
- 2017: Awarded for the best poster at the XXXVIII National Congress of the Italian Society of Pharmacology (Rimini, 25-28/10/2017).
- 2016: Travel grant for Young Scientists from the Italian Society of Pharmacology to attend the congress “Clinical and preclinical activity: the role of pharmacology” (Roma, Italy,

24-25/11/2016).

- 2011: Travel grant from Italian Society of Toxicology to attend the XXXXVII Congress of the European Societies of Toxicology (Paris, France, 28-31/08/2011).
- 2011: Awarded for the best poster at the XXXV National Congress of the Italian Society of Pharmacology (Bologna, 14-17/10/2011).
- 2010: Travel grant from the Italian Society of Toxicology to attend the XII International Congress of Toxicology (Barcelona, Spain, 19-23/07/2010).

7. Editorial and reviewing activities

- 2019 – 2022: Guest Editor for the special issue “Safety Assessment of Graphene-Based Materials: Human Health and Environment” for Nanomaterials (MDPI)
- 2019 – now: Member of the Editorial Board of Marine Drugs (MDPI)
- 2013 – now: Reviewer for the following international peer-reviewed journals: Nanoscale, Nanotoxicology, Carbon, Nanomaterials, International Journal of Molecular Sciences, Environmental Science Nano, International Journal of Nanomedicine, Toxicological Sciences, Toxicology, Materials Today Communications, ACS Applied Nano Materials, International Journal of Environmental Research and Public Health, Environmental Toxicology and Chemistry, Materials Science and Engineering C, Chemosphere, Toxicon, Toxins, Toxics, Marine Drugs, Molecules, Food and Chemical Toxicology, Cell Biology and Toxicology, Diagnostic, Experimental and Molecular Pathology, BMC Research Notes.

- 2018: Evaluator of research proposal for “The World Academy of Sciences” (TWAS), Italy

8. Scientific societies and conference organization

- 2019: Chairman and Member of the Organizing Committee of the workshop “Graphene Day”, 4/11/2019, Trieste (Italy).
- 2019: Chairman of the poster session “Toxicology IV” at the XXXIX Congress of the Italian Society of Pharmacology, 20-23/11/2019, Firenze (Italy).
- 2018: Member of the Organizing Committee of the “1st Meeting on Natural Toxins”, 6-1/11/2018, Padova (Italy).
- 2017: Member of the European Society of Environmental Toxicology and Chemistry (SETAC), Europe.
- 2011 – now: Member of the Italian Society of Pharmacology (SIF), Italy.
- 2010 – now: Member of the Italian Society of Toxicology (SITOX), Italy.

9. Scientific contributions at national and international congresses

Since 2009, Marco Pelin has been co-author of more than 100 scientific contributions at national and international congresses. In 49 of them he is first or last author (5 invited lectures, 16 oral communications and 32 poster).

List of invited lectures:

- 2021: “Un noto veleno con potenzialità terapeutiche: la tetrodotossina” at the XX Congress of the Italian Society of Toxicology, 25-27/10/2021, Bologna (Italy).
- 2021: “Un nuovo approccio sullo studio della palitossina utilizzando cellule staminali” at the XX Congress of the Italian Society of Toxicology, 25-27/10/2021, Bologna (Italy).
- 2018: “Impact of graphene related materials on skin keratinocytes: are they suitable for wound healing applications?” at the Graphene Week 2018, San Sebastian (Spain).
- 2017: “Oxidative stress and phytotherapy: critic aspects of the *in vitro* and *in vivo* an-

alytical methods” at the XXV National Congress of Phytotherapy, Arezzo (Italy).

2012: “Sanitary effects of novel marine toxins” at the XVI Congress of the Italian Society of Toxicology, Giardini Naxos (Italy).

10. Publications of the last 10 years

Since 2011, Marco Pelin has been co-author of 57 scientific publications (26 of them as first, corresponding or last author) in indexed peer-review international journals (h-index = 20; Total citations = 1455; source: SCOPUS).

- (1) Sosa S, Tubaro A, Carlin M, Ponti C, Vázquez E, Prato M, **Pelin M**. (2023). Assessment of skin sensitization properties of few-layer graphene and graphene oxide through the Local Lymph Node Assay (OECD TG 442B). *NanoImpact*. 29: 100448.
- (2) Sosa S, **Pelin M**, Ponti C, Carlin M, Tubaro A (2022). Acute toxicity by oral co-exposure to palytoxin and okadaic acid in mice. *Mar Drugs*. 20: 735.
- (3) Dalla Colletta A, **Pelin M**, Sosa S, Fusco L, Prato M, Tubaro A. (2022). Carbon-based nanomaterials and skin: an overview. *Carbon*. 196: 683-698.
- (4) Chortarea S, Kuru OC, Netkueakul W, **Pelin M**, Keshavan S, Song Z, Ma B, Gómez J, Abalos EV, Luna LAV, Loret T, Fordham A, Drummond M, Kontis N, Anagnostopoulos G, Paterakis G, Cataldi P, Tubaro A, Galiotis C, Kinloch I, Fadeel B, Bussy C, Kostarelos K, Buerki-Thurnherr T, Prato M, Bianco A, Wick P. (2022). Hazard assessment of abraded thermoplastic composites reinforced with reduced graphene oxide. *J Hazard Mater*. 435: 129053.
- (5) Honsell G, Gaiani G, Hiramama M, **Pelin M**, Tubaro A, Tsumuraya T, Campàs M. (2022). Cell immunolocalization of ciguatoxin-like compounds in the benthic dinoflagellate *Gambierdiscus australes* M. Chinain & M.A. Faust by confocal microscopy. *Harmful Algae*. 120: 102353.
- (6) Cavion F, **Pelin M**, Ponti C, Della Loggia R, Tubaro A, Sosa S. (2022). Ecotoxicological impact of the marine toxin palytoxin on the micro-crustacean *Artemia franciscana*. *Mar Drugs*. 20(2):81.
- (7) Carlin M, **Pelin M**, Pont C, Sosa S, Tubaro A. (2022). Functional and Structural Biological Methods for Palytoxin Detection. *J Mar Sci Eng*. 10(7): 916.
- (8) Genova E, Lucafò M, **Pelin M**, Di Paolo V, Quintieri L, Decorti G, Stocco G. (2021). Insights into the cellular pharmacokinetics and pharmacodynamics of thiopurine antimetabolites in a model of human intestinal cells. *Chem Biol Interact*. 347: 109624.
- (9) Cavion F, Fusco L, Sosa S, Manfrin C, Alonso B, Zurutuza A, Della Loggia R, Tubaro A, Prato M, **Pelin M**. (2020). Ecotoxicological impact of graphene oxide: toxic effects on the model organism *Artemia franciscana*. *Env Science Nano* 7(11): 3605-3615.
- (10) **Pelin M**, Lin H, Gazzi A, Sosa S, Ponti C, Ortega A, Zurutuza A, Vázquez E, Prato M, Tubaro A, Bianco A. (2020). Partial reversibility of the cytotoxic effect induced by graphene-based materials in skin keratinocytes. *Nanomaterials* 10(8): 1602.
- (11) **Pelin M**, Stocco G, Florio C, Sosa S, Tubaro A. (2020). *In vitro* cell sensitivity to palytoxin correlates with high gene expression of the Na⁺/K⁺-ATPase β2 subunit isoform. *Int J Mol Sci*. 21(16): 5833.
- (12) Genova E, Cavion F, Lucafò M, **Pelin M**, Lanzi G, Masneri S, Ferraro RM, Fazzi EM, Orcesi S, Decorti G, Tommasini A, Giliani S, Stocco G. (2020). Biomarkers and precision therapy for primary immunodeficiencies: an *in vitro* study based on induced pluripotent stem cells from patients. *Clin Pharmacol Ther*. 108(2): 358-367.
- (13) Franca R, Stocco G, Favretto D, Giurici N, Del Rizzo I, Locatelli F, Vinti L, Biondi A, Colombini A, Fagioli F, Barisone E, **Pelin M**, Martellosi S, Ventura A, Decorti G, Rabusin M. (2020). PACSIN2 rs2413739 influence on thiopurine pharmacokinetics: validation studies in pediatric patients. *Pharmacogenomics J*. 20(3): 415-425.
- (14) Fusco L, Garrido M, Martín C, Sosa S, Ponti C, Centeno A, Alonso B, Zurutuza A, Vázquez E, Tubaro A, Prato M, **Pelin M**. (2020). Skin irritation potential of graphene-based materials using a non-animal test. *Nanoscale*. 12(2): 610-622.

- (15) Fusco L, **Pelin M**, Mukherjee S, Keshavan S, Sosa S, Martín C, González V, Vázquez E., Prato M, Fadeel B, Tubaro A. (2020). Keratinocytes are capable of selectively sensing low amounts of graphene-based materials: implications for cutaneous applications. *Carbon*. 159: 598-610.
- (16) Sosa S, **Pelin M**, Cavion F, Hervé F, Hess P, Tubaro A. (2020). Acute Oral Toxicity of Pinnatoxin G in Mice. *Toxins (Basel)*. 12(2), pii: E87.
- (17) Genova E, Cavion F, Lucafò M, Leo L, **Pelin M**, Stocco G, Decorti G. (2019). Induced pluripotent stem cells for therapy personalization in pediatric patients: Focus on drug-induced adverse events. *World J Stem Cells*. 11(12): 1020-1044.
- (18) Lanzi G, Masneri S, Ferraro RM, Genova E, Piovani G, Barisani C, **Pelin M**, Stocco G, Decorti G, Bramuzzo M, Giliani S. (2019). Generation of 3 clones of induced pluripotent stem cells (iPSCs) from a patient affected by Crohn's disease. *Stem Cell Res*. 40: 101548.
- (19) **Pelin M**, Kilcoyne J, Florio C, Hess P, Tubaro A, Sosa S. (2019). Azaspiracids increase mitochondrial dehydrogenases activity in hepatocytes: involvement of potassium and chloride ions. *Mar Drugs*. 17, pii: E276.
- (20) Ninčević Gladan Ž, Arapov J, Casabianca S, Penna A, Honsell G, Brovedani V, **Pelin M**, Tartaglione L, Sosa S, Dell'Aversano C, Tubaro A, Žuljević A, Grbec B, Čavar M, Bužančić M, Bakrač A, Skejić S. (2019). Massive occurrence of the harmful benthic dinoflagellate *Ostreopsis cf. ovata* in the Eastern Adriatic Sea. *Toxins (Basel)*. 11, pii: E300.
- (21) Cuzzoni E, Franca R, De Iudicibus S, Marcuzzi A, Lucafò M, **Pelin M**, Favretto D, Monti E, Morello W, Ghio L, La Scola C, Mencarelli F, Pasini A, Montini G, Decorti G, Stocco G. (2019). MIF plasma level as a possible tool to predict steroid responsiveness in children with idiopathic nephrotic syndrome. *Eur J Clin Pharmacol*. 75(12): 1675-1683.
- (22) Fadeel B, Bussy C, Merino S, Vázquez E, Flahaut E, Mouchet F, Evariste L, Gauthier L, Koivisto AJ, Vogel U, Martín C, Delogu LG, Buerki-Thurnherr T, Wick P, Beloin-Saint-Pierre D, Hischier R, **Pelin M**, Candotto Carniel F, Tretiach M, Cesca F, Benfenati F, Scaini D, Ballerini L, Kostarelos K, Prato M, Bianco A. (2018). Safety assessment of graphene-based materials: focus on human health and the environment. *ACS Nano*. 12: 10582-10620.
- (23) **Pelin M**, Sosa S, Prato M, Tubaro A. (2018). Occupational exposure to graphene based nanomaterials: risk assessment. *Nanoscale*. 10: 15894-15903.
- (24) **Pelin M**, Sosa S, Brovedani V, Fusco L, Poli M, Tubaro A. (2018). A novel sensitive cell-based immunoenzymatic assay for palytoxin quantitation in mussels. *Toxins (Basel)*. 10(8). pii: E329.
- (25) **Pelin M**, Fusco L, Martín C, Sosa S, Frontiñán-Rubio J, González-Domínguez JM, Durán-Prado M, Vázquez E, Prato M, Tubaro A. (2018). Graphene and graphene oxide induce ROS production in human HaCaT skin keratinocytes: the role of xanthine oxidase and NADH dehydrogenase. *Nanoscale*. 10: 11820-11830.
- (26) Genova E, **Pelin M**, Decorti G, Stocco G, Sergio V, Ventura A, Bonifacio A. (2018). SERS of cells: what can we learn from cell lysates? *Anal Chim Acta*. 1005: 93-100.
- (27) Cateni F, Nitti P, Zacchigna M, Procida G, Lassiani L, Drioli S, Florio C, **Pelin M**. (2018). Synthesis and antitumor activity of α -alkylidene- γ -lactones. *Int J Pharm Res*. 10(4): 1-8.
- (28) **Pelin M**, Kilcoyne J, Nulty C, Crain S, Hess P, Tubaro A, Sosa S. (2018). Toxic equivalency factors (TEFs) after acute oral exposure of azaspiracid 1, -2 and -3 in mice. *Toxicol Lett*. 282: 136-146.
- (29) Genova E, **Pelin M**, Sasaki K, Fengming Y, Lanzi G, Masneri S, Ventura A, Stocco G, Decorti G. (2018). Induced pluripotent stem cells as a model for therapy personalization of pediatric patients: disease modeling and drug adverse effects prevention. *Curr Med Chem*. 25(24): 2826-2839.
- (30) **Pelin M**, Genova E, Fusco L, Marisat M, Hofmann U, Favretto D, Lucafò M, Taddio A, Martelossi S, Ventura A, Stocco G, Schwab M, Decorti G. (2017). Pharmacokinetics and pharmacodynamics of thiopurines in an in vitro model of human hepatocytes: Insights from an innovative mass spectrometry assay. *Chem Biol Interact*. 275: 189-195.
- (31) Ciaglia E, Malfitano AM, Laezza C, Fontana A, Nuzzo G, Cutignano A, Abate M, **Pelin M**, Sosa S, Bifulco M, Gazzero P. (2017). Immuno-modulatory and anti-inflammatory ef-

fects of dihydrogracilin A, a terpene derived from the marine sponge *Dendrilla membranosa*. Int J Mol Sci. 18(8) pii:E1643.

(32) **Pelin M**, Fusco L, León V, Martín C, Criado A, Sosa S, Vázquez E, Tubaro A, Prato M. (2017). Differential cytotoxic effects of graphene and graphene oxide on skin keratinocytes. Sci Rep 12(7): 40572.

(33) Tartaglione L, **Pelin M**, Morpurgo M, Dell'Aversano C, Montenegro J, Sacco G, Sosa S, Reimer JD, Ciminiello P, Tubaro A. (2016). An aquarium hobbyist poisoning: Identification of new palytoxins in *Palythoa* cf. *toxica* and complete detoxification of the aquarium water by activated carbon. Toxicol. 121: 41-50.

(34) Brovedani V, Sosa S, Poli M, Forino M, Varello K, Tubaro A, **Pelin M**. (2016). A revisited hemolytic assay for palytoxin detection: limitations for its quantitation in mussels. Toxicol. 119: 225-233.

(35) **Pelin M**, Florio C, Ponti C, Lucafò M, Gibellini D, Tubaro A, Sosa S. (2016). Pro-inflammatory effects of palytoxin: an *in vitro* study on human keratinocytes and inflammatory cells. Toxicol Res 5(4): 1172-1181.

(36) **Pelin M**, Forino M, Brovedani V, Tartaglione L, Dell'Aversano C, Pistocchi R, Poli M, Sosa S, Florio C, Ciminiello P, Tubaro A. (2016). Ovatoxin-a, a new palytoxin analogue isolated from *Ostreopsis* cf. *ovata* Fukuyo: biological activity and ELISA detection. Environ Sci Technol 50(3): 1544-1551.

(37) **Pelin M**, Brovedani V, Sosa S, Tubaro A. (2016). Palytoxin-containing aquarium soft corals as an emerging sanitary problem. Mar Drugs 14(2). pii: E33.

(38) Cuzzoni E, De Iudicibus S, Stocco G, Favretto D, **Pelin M**, Messina G, Ghio L, Monti E, Pasini A, Montini G, Decorti G; Nefrokid group. (2016). *In vitro* sensitivity to methylprednisolone is associated with clinical response in pediatric idiopathic nephrotic syndrome. Clin Pharmacol Ther. 100(3): 268-274.

(39) **Pelin M**, De Iudicibus S, Londero M, Spizzo R, Dei Rossi S, Martelossi S, Ventura A, Decorti G, Stocco G. (2016). Thiopurine biotransformation and pharmacological effects: contribution of oxidative stress. Curr Drug Metab 17(6): 542-549.

(40) Stocco G, Lanzi G, Yue F, Giliani S, Sasaki K, Tommasini A, **Pelin M**, Martelossi S, Ventura A, Decorti G. (2015). Patients' induced pluripotent stem cells to model drug induced adverse events: a role in predicting thiopurine induced pancreatitis? Curr Drug Metab 17(1): 91-98.

(41) Cuzzoni E, De Iudicibus S, Franca R, Stocco G, Lucafò M, **Pelin M**, Favretto D, Pasini A, Montini G, Decorti G. (2015) Glucocorticoid pharmacogenetics in pediatric idiopathic nephrotic syndrome. Pharmacogenomics 16(14): 1631-1648.

(42) Crosera E, Prodi A, Mauro M, **Pelin M**, Florio C, Bellomo F, Adami G, Apostoli P, De Palma G, Bovenzi M, Campanini M, Filon FL. (2015). Titanium dioxide nanoparticle penetration into the skin and effects on HaCaT cells. Int J Environ Res Public Health. 12(8): 9282-9297.

(43) Mauro M, Crosera M, **Pelin M**, Florio C, Bellomo F, Adami G, Apostoli P, De Palma G, Bovenzi M, Campanini M, Larese Filon F. (2015). Cobalt oxide nanoparticles: behavior towards intact and impaired human skin and keratinocytes toxicity. Int J Environ Res Public Health. 12(7): 8263-8280.

(44) **Pelin M**, De Iudicibus S, Fusco L, Taboga E, Pellizzari G, Lagatolla C, Martelossi S, Ventura A, Decorti G, Stocco G. (2015). Role of oxidative stress mediated by glutathione-S-transferase in thiopurines toxic effects. Chem Res Toxicol. 28(6): 1186-1195.

(45) Lucafò M, De Iudicibus S, Di Silvestre A, **Pelin M**, Candussio L, Martelossi S, Tommasini A, Piscianz E, Ventura A, Decorti G. (2015). Long noncoding RNA GAS5: a novel marker involved in glucocorticoid response. Curr Mol Med. 15(1): 94-99.

(46) **Pelin M**, Sosa S, Pacor S, Tubaro A, Florio C. (2014). The marine toxin palytoxin induces necrotic death in HaCaT cells through a rapid mitochondrial damage. Toxicol Lett. 229(3): 440-450.

(47) Stocco G, **Pelin M**, Franca R, De Iudicibus S, Cuzzoni E, Favretto D, Martelossi S, Ventura A, Decorti G. (2014). Pharmacogenetics of azathioprine in inflammatory bowel disease: a role for glutathione-S-transferase? World J Gastroenterol. 20(13): 3534-3541.

- (48) Ciminiello P, Dell'aversano C, Dello Iacovo E, Forino M, Tartaglione L, **Pelin M**, Sosa S, Tubaro A, Chaloin O, Poli M, Bignami G. (2014). Stereoisomers of 42-hydroxy palytoxin from Hawaiian *Palythoa toxica* and *P. tuberculosa*: stereostructure elucidation, detection, and biological activities. *J Nat Prod.* 77(2): 351-357.
- (49) Vassallo A, De Tommasi N, Merfort I, Sanogo R, Severino L, **Pelin M**, Della Loggia R, Tubaro A, Sosa S. (2013). Steroids with anti-inflammatory activity from *Vernonia nigritiana* Oliv. & Hiern. *Phytochemistry.* 96: 288-298.
- (50) **Pelin M**, Boscolo S, Poli M, Sosa S, Tubaro A, Florio C. (2013). Characterization of palytoxin binding to HaCaT cells using a monoclonal anti-palytoxin antibody. *Mar Drugs.* 11(3): 584-598.
- (51) Boscolo S, **Pelin M**, De Bortoli M, Fontanive G, Barreras A, Berti F, Sosa S, Chaloin O, Bianco A, Yasumoto T, Prato M, Poli M, Tubaro A. (2013). A sandwich ELISA assay for the quantitation of palytoxin and its analogs in natural samples. *Environ Sci Technol.* 47(4): 2034-2042.
- (52) **Pelin M**, Ponti C, Sosa S, Gibellini D, Florio C, Tubaro A. (2013). Oxidative stress induced by palytoxin in human keratinocytes is mediated by a H⁺-dependent mitochondrial pathway. *Toxicol Appl Pharmacol.* 266(1): 1-8.