

Curriculum Vitae et Studiorum

Personal information

Name and Surname	Chiara Russo
Address	Via Principi Normanni, 24. 81043, Capua (CE)
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E-mail	chiara.russo@unicampania.it
Nationality	Italian
Date of birth	26/02/1986
ORCID	0000-0001-6026-1059
National Order of Biologist Registration number	Registered in the National Council of Biologists, Section A [National (ITALIAN) Order of Biologists]. AA_077652

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Occupational field

PhD in Molecular and Cellular Biology

involved in the study of:

- the effects of persistent xenobiotics/pollutants and their binary mixtures on the environment and human health (cytotoxicity, genotoxicity, mutagenicity, estrogen-like activity);
- epidemiological studies to evaluate genotoxic effects in children and in adults after exposure to environmental pollutants;
- cyclodextrin inclusion complexes with pharmaceuticals: cytotoxic activity on tumoral cells and antimicrobial activity on different bacterial pathogen strains;
- evaluation of the antioxidant properties, the antigenotoxicity, the antimutagenicity and the cytoprotection exerted by different natural matrices.

Work experience

Dates	From 03/2016 to 12/2016
Occupation	RESEARCH SCHOLARSHIP: "EVALUATION OF THE EARLY EFFECTS IN CHILDREN ORAL MUCOSAL CELLS AFTER EXPOSURE TO ENVIRONMENTAL POLLUTANTS"
Name and address of employer	<i>Second University of Naples, via Vivaldi 43, 81100 Caserta, ITALY</i>
Dates	From 09/2015 to 12/2015
Occupation	"STRUCTURES AND FUNCTION OF ORGANIC FOOD-RELATED COMPOUNDS" TUTORING FOR STUDENTS WITH DISABILITIES
Name and address of employer	<i>Second University of Naples, via Vivaldi 43, 81100 Caserta, ITALY</i>
Dates	From 01/02/2015 to 31/04/2015
Occupation	(ABROAD) RESEARCH SCHOLARSHIP FAUNDED BY TEMASAV PROJECT IN "OMICS ANALYSIS DETERMINE THE HEALTH AND ENVIRONMENTAL EFFECTS OF ANTI-CANCER DRUGS"
Name and address of employer	<i>Department of School for the Environment, University of Massachusetts (UMASS), USA</i>
Dates	01/2015
Occupation	"FOOD SCIENCE AND HUMAN NUTRITION" TUTORING FOR STUDENTS WITH DISABILITIES
Name and address of employer	<i>Second University of Naples, via Vivaldi 43, 81100 Caserta, ITALY</i>
Dates	From 07/2014 to 10/2014
Occupation	TUTORING FOR STUDENTS WITH DISABILITIES ATTENDING "FOOD SCIENCE AND HUMAN NUTRITION" MASTER OF SCIENZE
Name and address of employer	<i>Second University of Naples, via Vivaldi 43, 81100 Caserta, ITALY</i>
Dates	From 03/2012 to 06/2012
Occupation	RESEARCH COLLABORATION: "ASSESSMENT OF ESTROGEN-LIKE ACTIVITY THROUGH THE DETERMINATION OF pS2 GENE EXPRESSION"
Name and address of employer	<i>Second University of Naples, via Vivaldi 43, 81100 Caserta, ITALY</i>
Dates	From 01/2012 to 03/2012
Occupation	"DIETETICS LABORATORY" TEACHING SUPPORT
Name and address of employer	<i>Second University of Naples, via Vivaldi 43, 81100 Caserta, ITALY</i>
Dates	From 2011 to 2014
Occupation	DOCTORATE in "MOLECULAR AND CELLULAR BIOLOGY", WITH A FINAL DEFENCE IN "RESIDUE OF ANTICANCER DRUGS AND THEIR MIXTURES: EFFECTS ON THE ENVIRONMENT AND HUMAN HEALTH".
Name and address of employer	<i>Second University of Naples, via Vivaldi 43, 81100 Caserta, ITALY</i>

Training/ internships

Principal subjects/occupational skills covered	Dates 26-27/11/2015	RAPID SCREENING OF AQUATIC ORGANIC POLLUTION AND TOXICITY USING BIOASSAYS AND BIOSENSORS
Name and type of organisation providing education and training		<i>Department of Environmental Chemistry (IDAEA-CSIC); Barcelona, SPAIN</i>
Principal subjects/occupational skills covered	Dates From 2/2015 to 4/2015	'OMICS ANALYSIS (cDNA LIBRARIES) AND MICROARRAY
Name and type of organisation providing education and training		<i>Department of School for the Environment, University of Massachusetts (UMASS) in Boston, USA</i>
Principal subjects/occupational skills covered	Dates 06/2013	MICRONUCLEUS ASSAY
Name and type of organisation providing education and training		<i>National Institute of Biology (NIB); Department of Genetic Toxicology and Cancer Biology, Ljubljana, SLOVENIA</i>
Principal subjects/occupational skills covered	Dates From 4/2011	ACUTE/CHRONIC TOXICITY AND GENOTOXICITY (COMET ASSAY) ON <i>D. magna</i> and <i>C. dubia</i> CRUSTACEANS. TOXICITY TESTS ON the crustacean <i>T. platyurus</i>, the rotifer <i>B. calyciflorus</i> and the alga <i>P. subcapitata</i>. MICROBIAL SUSCEPTIBILITY TEST AND MIC ON <i>P. aeruginosa</i>, <i>E. coli</i> AND <i>S. aureus</i>; MTT ASSAY ON MCF-7, MDA-MB 231, HEPG2, A549, CACO-2 TUMORAL CELLS, ON LYMPHOCYTE and ON FIBROBLASTS. ENDOCRINE-DISRUPTING TESTS ON MCF-7 CELLS AND ON <i>S. cerevisiae</i> YEAST. COMET ASSAY and MICRONUCLEUS ASSAY ON LYMPHOCYTES AND TUMORAL CELLS. EVALUATION OF GENOTOXICITY USING SOS CHROMOTEST AND UMU TEST. MUTAGENICITY EVALUATION USING <i>S. typhimurium</i> TA98, TA100, TA1535 STRAINS. EVALUATION OF THE ANTIOXIDANT ACTIVITY BY ORAC ASSAY, DETERMINATION OF POLYPHENOLS, REDUCING POWER, CHELATION OF IRON IONS, INHIBITION OF SELF-OXIDATION OF VITAMIN C.
Name and type of organisation providing education and training		<i>Second University of Naples, via Vivai di 43, 81100 Caserta, ITALY</i>
Principal subjects/occupational skills covered	Dates From 7/2008 to 9/2008	ANALYSIS OF SEMINAL FLUID, SEMEN ANALYSIS, MAINTENANCE OF OOCYTES AND SPERM IN CULTURE, IVF, ICSI
Name and type of organisation providing education and training		<i>Center for Reproductive Medicine and Biology "Caran Sri". Caserta, ITALY</i>
Principal subjects/occupational skills covered	Dates From 6/2007 to 10/2007	CLINICAL BIOCHEMICAL AND IMMUNOHISTOCHEMICAL TESTS
Name and type of organisation providing education and training		<i>Medical Diagnostic Center (CDM) -Laboratory clinical analysis - A.Borrelli & C., Capua (CE), ITALY</i>

Education training

Dates	18/12/2014
Title of qualification awarded	PhD in "MOLECULAR AND CELLULAR BIOLOGY", SSD: Hygiene 6/M1(MED/42)
Name and type of organisation providing education and training	<i>Second University of Naples, via Vivaldi 43, 81100 Caserta, ITALY</i>
Dates	From 2011
Title of qualification awarded	Teaching Assistant in GENERAL AND APPLIED HYGIENE
Name and type of organisation providing education and training	<i>Second University of Naples, via Vivaldi 43, 81100 Caserta, ITALY</i>
Dates	07/2011
Title of qualification awarded	Qualification to THE PROFESSION OF BIOLOGIST
Name and type of organisation providing education and training	<i>Second University of Naples, via Vivaldi 43, 81100 Caserta, ITALY</i>
Dates	24/03/2011
Title of qualification awarded	Master of Science in BIOLOGY
Name and type of organisation providing education and training	<i>Second University of Naples, via Vivaldi 43, 81100 Caserta, ITALY</i>
Result	110/110 with honrs
Dates	29/10/2008
Title of qualification awarded	Master's degree in BIOTECHNOLOGY APPLIED TO ASSISTED REPRODUCTION
Name and type of organisation providing education and training	<i>Second University of Naples, via Vivaldi 43, 81100 Caserta, ITALY</i>
Result	110/110 with honrs
Dates	28/05/2008
Title of qualification awarded	Bachelor's degree in BIOLOGICAL SCIENCES
Name and type of organisation providing education and training	<i>Second University of Naples, via Vivaldi 43, 81100 Caserta, ITALY</i>
Result	110/110

**Scientific publications
In peer-reviewed journals**

D'Abrosca B., Lavorgna M., Scognamiglio M., Russo C., Graziani V., Piscitelli C., Fiorentino A., Isidori M. 2017. **2D-NMR investigation and in vitro evaluation of antioxidant, antigenotoxic and estrogenic/antiestrogenic activities of strawberry grape.** *Food and Chemical Toxicology*, 105: 52-60

Di Donato C., Lavorgna M., Fattorusso R., Isernia C., Isidori M., Malgieri G., Piscitelli C., Russo C., Russo L., Iacovino R., 2016. **Alpha- and beta-cyclodextrin inclusion complexes with 5-fluorouracil: Characterization and cytotoxic activity evaluation.** *Molecules*, 21(12). DOI:10.3390/molecules21121544

Isidori M., Lavorgna M., Russo C., Kundi M., Žegura B., Novak M., Filipič M., Mišič M., Knasmueller S., de Alda M.L., Barceló D., Žonja B., Česen M., Ščančar J., Kosjek T., Heath E., 2016. **Chemical and toxicological characterisation of anticancer drugs in hospital and municipal wastewaters from Slovenia and Spain.** *Environmental Pollution*, 219: 275-287

Isidori M., Piscitelli C., Russo C., Smutná M., Bláha L., 2016. **Teratogenic effects of five anticancer drugs on *Xenopus laevis* embryos.** *Ecotoxicology and Environmental Safety*, 133: 90-96

Kundi M., Parrella A., Lavorgna M., Criscuolo E., Russo C., Isidori M., 2016. **Prediction and assessment of ecogenotoxicity of antineoplastic drugs in binary mixtures.** *Environmental Science and Pollution Research*, 23(15): 14771-14779

Lavorgna M., Russo C., D'Abrosca B., Parrella A., Isidori M., 2015. **Toxicity and genotoxicity of the quaternary ammonium compound benzalkonium chloride (BAC) using *Daphnia magna* and *Ceriodaphnia dubia* as model systems.** *Environmental pollution*, 210: 34-39

Parrella A., Lavorgna M., Criscuolo E., Russo C., Isidori M., 2014. **Eco-Genotoxicity of six anticancer drugs using comet assay in daphnids,** *Journal of Hazardous Materials*, 286: 573-580

Parrella A., Kundi M., Lavorgna M., Criscuolo E., Russo C., Isidori M., 2014. **Toxicity of exposure to binary mixtures of four anti-neoplastic drugs in *Daphnia magna* and *Ceriodaphnia dubia*.** *Aquatic Toxicology*, 157: 41-46

Parrella A., Lavorgna M., Criscuolo E., Russo C., Isidori M., 2014. **Estrogenic activity and cytotoxicity of six anticancer drugs detected in water systems.** *Science of the Total Environment*, 485-486(1): 216-222

Parrella A., Lavorgna M., Criscuolo E., Russo C., Fiumano V., Isidori M., 2014. **Acute and chronic toxicity of six anticancer drugs on rotifers and crustaceans.** *Chemosphere*, 115:59-66

Temussi F., Della Greca M., Pistillo P., Previtera L., Zarelli A., Criscuolo E., Lavorgna M., Russo C., Isidori M., 2013. **Sildenafil and tadalafil in simulated chlorination conditions: Ecotoxicity of drugs and their derivatives.** *Science of the Total Environment*, 463-464: 366-373

Iacovino R., Rapuano F., Caso J.V., Russo A., Lavorgna M., Russo C., Isidori M., Russo L., Malgieri G., Isernia C., 2013. **β -cyclodextrin inclusion complex to improve physicochemical properties of pipemidic acid: Characterization and bioactivity evaluation.** *International Journal of Food Science and Technology*, 14(7): 13022-13041

Parrella A., Caterino E., Cangiano M., Criscuolo E., Russo C., Lavorgna M., Isidori M. 2012. **Antioxidant properties of different milk fermented with lactic acid bacteria and yeast.** *International Journal of Food Science and Technology*, 47(12): 2493-2502

National and International meetings

- Dates 12/2014
Fourth Annual Meeting Cytothreat "Fate and effects of cytostatic pharmaceuticals in the environment and the identification of biomarkers for and improved risk assessment on environmental exposure" Seventh Framework Programme, Theme [ENV.2010.1.2.2-2]Cytothreat, Barcelona, Spain
- Dates 10/2013
Third Annual Meeting Cytothreat "Fate and effects of cytostatic pharmaceuticals in the environment and the identification of biomarkers for and improved risk assessment on environmental exposure" Seventh Framework Programme, Theme [ENV.2010.1.2.2-2]Cytothreat, Barcelona, Spain
- Dates 06/2013
Cytothreat Briefing on Statistical Approach for mixture analysis of cytostatics, coordinated by Prof. Kundi, Ljubljana, Slovenia
- Dates 10/2012
Second Annual Meeting Cytothreat "Fate and effects of cytostatic pharmaceuticals in the environment and identification of biomarkers for and improved risk assessment on environmental exposure" Seventh Framework Programme, Theme [ENV.2010.1.2.2-2] Cytothreat, Napoli, Italy

National and International congresses

- Dates 12/2014
Pharmaceuticals in wastewaters and surfate waters under multistressors situation: fate, adverse effects, risks and removal technologies, Barcelona, Spain: ISBN 978-84-937882-9-2

Russo C. oral presentation:
Exposure to binary mixtures on four anticancer drugs in crustaceans: chronic and genotoxic effects;
- Parrella A., Kundi M., Lavorgna M., Criscuolo E., Russo C., Isidori M poster presentation
Toxic and genotoxic effects of BAC and its binary mixtures with four cytostatics in the crustacean Ceriodaphnia dubia
- Dates 10/2014
3rd International Summit on Toxicology & Applied Pharmacology Chicago, USA; Journal of Clinical Toxicology Volume 4, Issue 4, ISSN: 2161-0495

Lavorgna M., Isidori M., Criscuolo E., Russo C., Parrella A.
Agonist/antagonist activity of three pesticides on the estrogen receptor alpha in a recombinant yeast assay
- Dates 4/2013
7th Conference on Experimental and Translational Oncology (CETO 2013), Portoroz, Slovenia: ISBN 978-961-91302-4-7
Criscuolo E., Lavorgna M., Russo C.
Ecotoxicological antimetabolites effects: 5-Fluorouracil vs Capecitabine

Dates 10/2010
 Acts of the 45th National Congress of the Italian Society of Hygiene "The Prevention and Public Health at the service of the country: the hygienist to the new demands of health" (Cagliari) with scientific contributions from the titles:

Lavoragna M., Cangiano M., Criscuolo E., Fatigati V., Isidori M., Papa G., Russo C., Schiavone L., Parrella A. "Antioxidant activity, Mutagenic / genotoxic and antimutagenic / antigenotoxic Extracts Methanol from plants of the Mediterranean area"

Parrella A., Cangiano M., Criscuolo E., Fatigati V., Lavoragna M., Papa G., Russo C., Schiavone L., Isidori M. "Evaluation Of The Effects Of Estrogen-like: Packaging Contaminants"

Isidori M., Cangiano M., Criscuolo E., Fatigati V., Lavoragna M., Papa G., Russo C., Schiavone L., Temuss F., Parrella A. "Environmental Effects And Risk From Exposure To Drugs And Their Derivatives In Aquatic Environment"

1st Cytothreat workshop "The effects of residues of cytostatics and other pharmaceuticals on non target organisms" with scientific works:

Russo C. Oral presentation: "Biological effects of Capecitabine on experimental models"

Criscuolo E., Cangiano M., Russo A.R., Russo C., Schiavone L., Isidori M. "Environmental Effects of Doxorubicin"

Cangiano M., Criscuolo E., Russo A.R., Russo C., Schiavone L., Isidori M. "Estrogenic activity and cytotoxicity of some cytostatic drugs"

Seminars/Training courses

Dates 11/2012
 Certificate of participation **Presentation of scientific results**
 Name and type of organisation Second University of Naples, via Vivaldi 43, 81100 Caserta, ITALY
 providing seminars or training courses

Dates 05/2011
 Certificate of participation **Stem cell research and clinical applications**
 Name and type of organisation Second University of Naples, via Vivaldi 43, 81100 Caserta, ITALY
 providing seminars or training courses

Dates 04/2009
 Certificate of participation **The analysis of the seminal fluid: basic tests and recent applications**
 Name and type of organisation Second University of Naples, via Vivaldi 43, 81100 Caserta, ITALY
 providing seminars or training courses

Dates 05/2006
 Certificate of participation **The meaning of life between science and ethics**
 Name and type of organisation Second University of Naples, via Vivaldi 43, 81100 Caserta, ITALY
 providing seminars or training courses

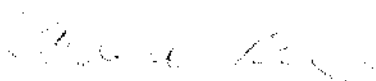
Personal skills and competences

Computer skills

Dates	7/2017
Course Certificate of participation	"The R platform for statistical analysis of biomedical data" Certificate
Name and type of organisation providing certificate	<i>Dipartimento di Sanità Pubblica della Scuola di Medicina e Chirurgia dell'Università degli Studi di Napoli "Federico II", Via S.Pansini 5; Napoli (NA), ITALY</i>
Dates	From 2015
Competences	MeV v4.8.1,
Dates	11/2014
Course Certificate of participation	European Informatics Passport (Eipass)
Name and type of organisation providing certificate	<i>Centro Polifunzionale "IL FARO", Via Nazionale delle Puglie 7, Casalnuovo di Napoli (NA), ITALY</i>
Dates	From 2011
Competences	Statistical analysis of data using Prism, Calc, Logit, Rat. Graphic representation of data using Origin, GraphPad
Dates	02/2004
Course Certificate of participation	European Computer Driving License (ECDL)
Name and type of organisation providing certificate	<i>High School Science, Via Napoli 1, Capua (CE), ITALY</i>

Social skills and competences

Dates	01/2010
Course Certificate of participation	Certificate of Competence in Criminology / Graphology - Training course in criminology
Name and type of organisation Providing certificate	<i>POLIBIO: Centre for Legal Studies-PSICOGIURIDICO, ITALY</i>
Dates	04/2007
Course Certificate of participation	Certificate of Participation: course of Volunteers to make smile clown therapy in HOSPITAL WARD of PEDIATRICS and GERIATRICS, course of CHILD PSYCHOLOGY and PSYCHOLOGY OF DEVELOPMENT
Name and type of organisation Providing certificate	<i>Institute for research, documentation and training "HOMO RIDENS", ITALY</i>



Language competences

Mother tongue	Italian
Other language	English
Dates	2016
Title of qualification awarded	ENGLISH LANGUAGE CERTIFICATE B2 READING: INDEPENDENT USER USE OF ENGLISH: PROFICIENT USER WRITING: INDEPENDENT USER LISTENING: INDEPENDENT USER SPEAKING: PROFICIENT USER
Name and type of organisation providing education and training	CAMBRIDGE ENGLISH LANGUAGE ASSESSMENT
Dates	2000
Title of qualification awarded	ENGLISH LANGUAGE CERTIFICATE
Name and type of organisation providing education and training	ARDMORE LANGUAGE SCHOOLS, UK