

UNIVERSITÀ DEGLI STUDI DI MILANO

Procedura di selezione per la chiamata a professore di II fascia da ricoprire ai sensi dell'art. 18, comma 1, della Legge n. 240/2010 per il settore concorsuale 06/N1

(settore scientifico-disciplinare SSD MED46)

presso il Dipartimento di Scienze Biomediche per la Salute

(avviso bando pubblicato sulla G.U. n. 14 del 19/02/2019) - Codice concorso 4205

[Natalia Malara]
CURRICULUM VITAE

INFORMAZIONI PERSONALI (NON INSERIRE INDIRIZZO PRIVATO E TELEFONO FISSO O CELLULARE)

COGNOME	MALARA
NOME	NATALIA
DATA DI NASCITA	17/12/1970

INSERIRE IL PROPRIO CURRICULUM
(non eccedente le 30 pagine)

<i>Position</i>	Researcher fellow (2009-2017) National scientific habilitation (2018-2024) for the role of Associate Professor in Medical Oncology -SSD MED06 and Technology and methodology in medicine and nursing sciences-SSD MED46.
<i>Employer</i>	University Magna Graecia of Catanzaro
<i>Birth date</i>	December 17 th , 1970
<i>Scopus ID</i>	23995747800
<i>ORCID</i>	http://orcid.org/0000-0002-1719-293X
<i>G Scholar</i>	https://scholar.google.com/citations?user=Z99Br7QAAAAJ

Research Highlights

NM uses advanced no-invasive protocols to obtain human cells and molecules directly from patients for combining with nanotechnologies to engineer solutions to medical problems. The interests of NM comprise i. Concept, design and realization of advanced no-invasive protocols to obtain human cells and molecules deriving from specific tissue source for further characterization and analysis. ii. Concept and design of devices with surfaces patterned with micro/nano themes to guide cells attachment and proliferation, biological applications and protein sensing. iii. Concept of mathematical models to reproduce and synthesize biological phenomena and mechanisms of nano-particle delivery. iv. Medical oncology and echography expertise performing correlation between clinical/

instrumental with experimental data. **v.** NM has studied the relation between changes in conductivity induced by the difference in free titratable protons contained in excreted cellular catabolite released by short-time cultivation of circulating tumour cells.

Research Metrics

60	Publications	686	Citations (Scopus)
59	Peer reviewed papers	917	Citations (Google Scholar)
1	Book		
4	Chapters of books	15	H-index (Scopus)
1	Issued patents	16	H-index (Google Scholar)
2	Pending patents	26	i-index (Google Scholar)

Education

2004	Ph. D. in Human Cellular Biology with molecular genetic address. University of Messina, Italy
1998	Specialization in Medical Oncology. Catholic University of Rome. Italy
1994	M.D. Medicine and Surgery. University of Messina, Italy.

Previous Positions

2017/2018	Director of Master of Liquid Biopsy. School of High Formation. University "Magna Græcia"
2016/2017	Research Fellow University" Magna Græcia"
2014/2015	Research Fellow University" Magna Græcia"
2013/2014	Senior post doc Italian Institute of Technology, Genova, Italy.
2009/2013	Post-Doc Position University "Magna Græcia"
2007/2008	Teaching Assistant University "Magna Græcia"
2006/2008	Research Fellow FIRC "Marco Claudio Segre" (AIRC). University "Magna Græcia"
2005/2006	Research Fellow University of Messina
2004	Adjunct Professor University "Magna Græcia"

Teaching activities

1. *Human Histology* University Magna Graecia, Italy. (2017-)
2. *Expertise in Liquid Biopsy*. University Magna Graecia, Italy. (2017-)
3. *Cancer Personalized Nanomedicine*. University Magna Graecia of Catanzaro, Italy. (2018)
4. Educational International activities " Nanotecnologic applications in cancer medicine using Circulating Cancer Cells" at Korea Institute of Science and Technology Europe of Saarbrücken, Germany 09-10/01/2010
5. Educational International activities at "International Course of Circulating Endothelial Cells" organization Becton and Dickinson (BD) at University of Chieti 16-18/01/2014
6. Educational International activities Analysis of Oncologic Biomarkers included in cultivated Circulating Tumor cells

and their secretomes on superhydrophobic lab-on-chips for diagnosis and prognosis of sporadic tumours” as part of the activity program “medicine & nanotechnology” at King Abdullah University of Science and Technology for a 28 hours on the topic:" 16-27/03/2018

7. *Corso di formazione in Bioetica, Regione Calabria, May 2005*
8. *Oncologia e alimentazione” Corso di Perfezionamento in Nutraceutica, finanziato dal MIUR nell'ambito del Progetto PONA3_00359 - IRC-FSH. Dipartimento di Scienze della salute, Università Magna Graecia*
9. *“Genetica molecolare dei tumori e apoptosi. Ciclo seminari. Corso di Laurea In Medicina e Chirurgia III anno. Facoltà di Medicina e Chirurgia. Anno accademico 2002/2003. Università di Messina.*
10. *Corso di Biologia Applicata, I anno, I semestre Corso di Laurea In Medicina e Chirurgia. Facoltà di Medicina e Chirurgia. Anno accademico 2004/2005. Università Magna Graecia (1 CFU)*
11. *Corso Monografico: Metodologie e Tecnologie Cellulari, I anno Corso di Laurea In Biotecnologie. Facoltà di Medicina e Chirurgia. Anno accademico 2004. Università di Messina.*
12. *Corso di Biologia dell'invecchiamento II anno, II semestre Corso di Laurea In Scienze motorie. Facoltà di Medicina e Chirurgia. Anno accademico 2004/2005. Università di Messina.*

Appointments

2017/2018	Member of the Review Committee for the Indian Alliance grants
2017	Member Royal Society of Medicine
1999	Member of the AIOM (Association Italian of Medical Oncology), Italy.

Early achievements record of accomplishment

NM authored or co-authored more than 59 peer reviewed papers, the majority of which in leading journals in medical science and biomedical nanotechnologies including Nature Precision Oncology, Scientific Reports, Small, European Heart Journal Cardiovascular Pharmacotherapy, Cytometry, International Journal of Cardiology etc. Some of them have been covered by national dailies.

NM collaborates and has collaborated with celebrated scientists including Prof. Alarice Lowe Brigham Hospital, Harvard, Boston, MA, USA. Prof. Enzo Di Fabrizio at the KAUST, Saudi Arabia. Dr Gianluca Rotta, scientific responsible in Italy for Becktson and Dickinson, Franco Fulciniti. Istituto Cantonale di Patologia, Svizzera, Prof Mollace, UMG and Prof Giuseppe Rosano St.Georges University of London, UK, Prof emerito Bruno Silvestrini, University Sapienza, Roma.

In her career, NM **contributed to develop** protocol to neoadjuvant membrane immunomodulation in lung cancer patients to increase immune responsivity (M.D. thesis) and to characterize the impact of aging on the biology (cell cycle proteins and relative mutations) of breast cancer (PhD thesis). Moreover, she developed innovative protocols to isolate and characterize rare circulating populations of no-haematological cells. She designed multiparameter cytometric panels for the combining detection of circulating tumour cells and endothelial cells in collaboration with BD. She contributed to standardize the range of normality of novel biomarkers. Moreover, she contributes to set biological personalized variables (apoptosis fraction, cell cycle phase distribution) with the aim to individuate the best anticancer therapy. Moreover, she developed chemo-assay test to in vitro evaluate the personal sensitivity for chemotherapeutic agents by using primary culture of cancer cells isolated from tumour tissue and/or peripheral blood. She developed protocol to isolate, short time expanded and transfer human stem cells in vivo for tissue regeneration protocols. Finally, she concepts and designs devices with nano-scale architectures for the separation and detection of biological species.

NM has been **author, on invitation**, of the book "Tumor Tissue", Eurolink editor, distributed by Feltrinelli, Roma

NM has been **guest-editor, on invitation**, for the chapter titled "Blood Brain Barrier breakdown by combined detection of circulating tumour and endothelial cells in the liquid biopsy" in the book "Liquid Biopsy." Intech Open, London; for

the chapter titled “Emergency in Oncology” in the book “La Medicina di Laboratorio nell’emergenza”, Delfino editore, Roma.; and for the Special issue 2014 titled A PROMISING BIOMARKER OF EARLY CANCER DETECTION: CIRCULATING CANCER CELLS in Advanced in food safety and health. She was invited to take part of the editorial board of international journals, International Journal of Translational Research, Frontiers in Oncology, Cellular Oncology.

NM serves or served as referee for the following journals: Plos one, Oncotarget and therapy, Cancer Management and research, Molecular oncology, Microelectronic and engineering, Cellular Oncology etc.

Participations and directions of a research

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|-----------|---|
| 2018 | <i>Direction of a research.</i> In 2018, Natalia Malara (NM) is the Principal investigator of Title: <i>Network for the nosologic assignation of non-hematological cellular elements recognized in cytology preparations collected through a procedure of short-time expansion of cells isolated from liquid biopsy human samples of peripheral blood</i> . Short-title: Net-Cyto-liquid biopsy. The project by allowing the direct visualization of different types of cytological specimens obtained directly from whole blood will help oncologists, pathologists, cellular and molecular biologists and biochemists, to understand the cellular biology of cancer with a personalized perspective in continuous up-date. Moreover, this project could contribute to the creation of an Atlas of cytological images of non- haematologic elements related to the use of liquid biopsy. This project at data involves the university Magna Graecia with the team of prof G. Donato and prof. G. Viglietto, Prof. Alarice Lowe Brigham Hospital, Harvard, Boston, MA, USA and Dr. Franco Fulcinitti. Istituto Cantonale di Patologia, Svizzera. |
| 2015-2017 | <i>Direction of a research.</i> In 2015, NM was the principal investigator of translational medicine projects regarding the cardiovascular disease of great impact.
1) <i>ENXO-Cardial, CIRCULATING ENDOTHELIAL CELLS AND EXOSOMES CHARACTERIZATION IN ACUTE MYOCARDIAL INFARCTION WITHOUT S-T ELEVATION</i> ; Ethics Committee Section Center Area (Prot 146 of 11.06.2015). Proponents prof Ciro Indolfi and Vincenzo Mollace.
2) <i>ENDO-FiRE, CIRCULATING ENDOTELIAL CELLS IN THE EVALUATION OF THE RISK OF ATRIAL FIBRILLATION</i> ; Ethics Committee Section Center Area (Prot 146 of 11.06.2015). Proponents prof Ciro Indolfi and Vincenzo Mollace. University Magna Graecia. |
| 2015 | <i>Direction of a research.</i> In 2015, NM joined a collaborative network with prof Francesco Gentile, at the University Federico II of Naples, dott. Nicola Coppedè, at the Institute of Materials for Electronics and Magnetism, CNR in Parma, Prof. Enzo Di Fabrizio at the KAUST, Saudi Arabia and bio medical collaborators at University Magna Graecia , to design and test nanoscale organic electronics devices able to identify identify cancer, non-cancer, and precancerous states, in human subjects , with excellent sensitivity, high repeatability, and small classification errors. |
| 2013-2014 | <i>Participation to a research.</i> In 2013, NM was hired in a postdoctoral position by the Nanostructures department, Italian institute of technology (iit) in Genova, to contribute to develop micro scale lab on chip with functionalized surface finalized to entrap and characterize circulating cancer cells. The research was conducted in an international team of scientists. |
| 2012 | <i>Direction of a research.</i> In 2012 NM was nominated Sud-Italy coordinator (Calabria and Sicily) for the national project proposed by Beckinson Dickinson Italy, entitled: <i>IMMUNOFENOTIPIC CHARACTERIZATION OF THE ENDOTHELIAL CELLS CIRCULATING FROM PERIPHERAL, MIDDLE AND CORDONAL BLOOD BY MEANS OF CUTOMETRIC EVALUATION IN STANDARDIZED INSTRUMENT</i> |

	<p><i>CONDITIONS, REAGENTS AND PROTOCOLS. DEFINITION OF REFERENCE INTERVALS IN ABSOLUTE ACCOUNT IN THE PERIPHERAL BLOOD OF THE HEALTHY POPULATION.</i> Nickname: S.C.E.N.I.C (Standardization of Circulating Endothelial Cells evaluation). The other sites participating in the project were A.O. Brescia Civil Hospital; S. Maria degli Angeli Hospital in Pordenone; University "G. d'Annunzio" of Chieti, National Cancer Institute G. Pascale of Naples, Campus-Biomedical University of Rome. Dr NM coordinated the following operative units of the Magna Graecia University of Catanzaro: Cellular Toxicology Laboratory, Director: Prof Vincenzo Mollace. PhD student: dr Trunzo Valentina Department of Health Medicine Cardiosurgery Unit, Director: prof Mastroroberto Pasquale MD PhD. Specializing: dr Musolino Giuseppe MD. Department of Experimental and Clinical Medicine Operative Unit of Gynecology and Ostetricia: Director prof. Zullo Fulvio MD PhD. Dr. Morelli Michele MD PhD.. Department of Obstetrics and Gynecology. Moreover, with the collaboration of the Regional AVIS Center: Director Dr Gianpaolo Carnevale. Dr Giovanni Olivito, Dr. Tiziana Caloiero.</p>
2011-2016	<p><i>Direction of a research.</i> NM in collaboration with Blonem and the Cellular Toxicology Laboratory, Director: Prof Vincenzo Mollace, she develops as principal investigator of <i>in vivo</i> projects by using animal vectors:</p> <ol style="list-style-type: none"> 1) <i>Transplantation of human cancer cells modified in biofunctional devices.</i> Proponent Prof. Enzo Di Fabrizio. Magna Graecia University (2011/2012) 2) <i>Evaluation of preserved physiological condition and toxicological side effects.</i> Proponent prof. Vincenzo Mollace. Magna Graecia University (2014/2016). <p>Moreover, she attended the Tumor Models course in London (2014) and was tutor for the realization of Ph.D. thesis in Pharmaceutical Sciences XXVIII cycle "Magna Graecia" University of Catanzaro Department of Health Sciences titled: Markers of Blood-Brain Barrier Opening in a Mouse Model of Intracranial Tumour.</p>
2010-2018	<p><i>Participation to a research.</i> NM collaborated with different groups in UMG (prof.Amerigo Giudice, prof. Pasquale Mastroroberto), with S. Anna Hospital (clinic specialized in cardio surgery) and with prof Giovanna Brusantin at University of Padova for the characterization and expansion of primary human stem cells. In particular, we combine advanced protocols of isolation of human stem cells and the design of micro structured scaffolds with hybrid sol-gel materials to favour the vessels regeneration in vitro and in vivo models.</p>
2009	<p><i>Participation to a research.</i> In 2009, NM established a collaboration with the BioNEM (Bio- and Nano-Engineering for Medicine) the nanotechnology laboratories at the University Magna Graecia of Catanzaro (collaborators Prof. Enzo Di Fabrizio, Prof. Patrizio Candeloro) to participate and coordinate the biomedical researcher activities. In this field, she contributes to realize devices with functionalized surface, arrays of super-hydrophobic gold nanoparticles. Lab-on-chip at the micro-scale with their integration in a platform may advance the current state of fluorescence based sensing technology in medical diagnostics and biotechnology, for the early detection of cancer biomarkers or other proteins of biomedical interest.</p>
1994-2004	<p><i>Participation to a research.</i> In 2009, NM spent her specialization in medical oncology by frequenting clinical practice in oncology and performed translational research on cell cycle, apoptosis fraction and p53 function in many type of cancers included in her thesis titled "<i>Subcellular localization of p53, cell cycle and spontaneous apoptosis in the biological-molecular characterization of Non Small Cell Lung Cancer (NSCLC)</i>". Moreover, she participated actively in the group of prof Achille Cittadini, prof Giovanna Flamini and dr Alma Boninsegna at Catholic University of Medicine, Rome. The study was led in collaboration with an international team of experts in molecule-adducts.</p>

2004-2009 *Participation to a research.* During his PhD in Human Cellular Biology with genetic molecular address, at University of Messina **NM** performed elaborate study on cell cycle, cyclin D1 and its genetic modifications occurring during aging and cancer with the team of prof. Aldo Amato, University of Messina comprised in the final thesis titled “ *Biological and molecular Evaluation of breast ductal carcinomas post-menopausal women*”. Moreover, she conducted a collaboration study with the Neurogenetic Centre directed by dr. Amalia Bruni and her team on the “*Quality control system in a biological and genealogical data Bank from a population genetically related*”. The research was conducted in an international team of scientists.

2006-2008 *Direction of a research.* During the develop of FIRC fellowship "Development of new therapeutic strategies for the treatment of multiple myeloma with the combined study of the intracellular pathways of signal transduction " at UMG, **NM**, performed in vitro test on the drug sensitivity in haematological and non-haematological tumours in collaboration with dr. Mario Cioce of the IRBM, Pomezia.

Consultancy activities

NM during her oncologic practice activity related to her interest in the research filed, performed consultant activity management for Consulate of the Italian Embassy Nosy-Be Madagascar in terms of Environment Health. High and low, oncological risks linked to territorial problems with particular interest for the pediatric age (form 21-12-2005 to 23-12-2005). She was scientific consultant for the "Centro del Farmaco" project IRCS San Raffaele Pisana of Rome (from 1-11-2011 to 1-12-2011). Moreover, she was scientific consultant in the project of "Monitoring and Early Diagnosis of Tumor Pathologies related to exposure to environmental toxicants in the Calabrian population " ARPACAL - Regional Agency for Environmental Protection of Calabria (from 10-09-2009 to 10-01-2011). **NM** was Italian judicial Technical Consultant of Lamezia Court as expert in clinical oncology (2002-2017)

Editorial experiences

2009 **NM** writed the book edited by Eurolink and distributed by Feltrinelli titled “*IL Tessuto Tumorale*”
 2017 **NM** participated writing the chapter: *La citofluorimetria a flusso attuali applicazioni cliniche* in the book edited and distributed by Delfino editore titled: “*La Medicina di Laboratorio nell’Emergenza*”
 2018 **NM** participated with the two chapter: *Emergenze in oncologia*” and *La citofluorimetria a flusso attuali applicazioni cliniche*, to the second edition of the book titled: “ *La Medicina di Laboratorio nell’emergenza*”
 2018 **NM** participated with the chapter *Blood Brain Barrier breakdown by combined detection of circulating tumour and endothelial cells in the liquid biopsy*” in the book titled: “*Liquid Biopsy.*” Edited and distributed by Intech Open, London

Clinical Practice

During her oncologist specialization, **NM** acquired internist echography competences useful to perform her clinical work. **NM** has had more than twenty years of experience in oncology pathology and she has performed more than 1400 ultrasound scan until date and carries special interest in solid tumours.

Awards

- AIRC for Cancer Research 10-11-2007
- Artemisia award (Rhegium Julii Association) for Cancer research 17-03-2010

- "Giovanni Scarcea" Award for Cancer research 05-04-2014
- Small Cover. Small, 8, 2886 (2012)
- Translational Medicine Cover. J Transl Med. 2016 May 12; 14(1):133.

Presentations to conferences and talks

N Malara, Significato, applicazioni e limiti della biopsia liquida 11 Marzo 2019 Significato, applicazioni e limiti della biopsia liquida Saletta radioterapia ospedale Ciaccio-De Lellis Invited talk and scientific organization

N Malara, Innovative Biosensing approaches for circulating cancer biomarkers. Retreat Politecnico di Torino – Fondazione B. Kessler presso rifugio Serot a Roncigno in Trentino dal 27 febbraio al 1 marzo 2019- Invited talk

N Malara, Liquid Biopsy in Tumors and other Complex Diseases 25 Febbraio 2019 presso Hotel San Francesco via Giuseppe Ungaretti 2 -Rende (CS) -Invited talk and scientific organization

N Malara, Significato, applicazioni e limiti della biopsia liquida 16 Febbraio 2019 presso Centro Ricerche ItalSistemi, Crotone -Invited talk and scientific organization

N Malara, Significato, applicazioni e limiti della biopsia liquida. Presso sede Ordine dei Medici di Reggio Calabria 31 Gennaio 2019 ore 9:30-12:00 -Invited talk and scientific organization

N Malara, *Cytopathological evaluation on Liquid Biopsy using CTC short-term expanded on slides for cancer screening, diagnosis and therapy.* European Conference of Cytology. Madrid, June 10-13 2018- Invited talk

N Malara, *Un nuovo approccio per l'analisi delle cellule tumorali circolanti.* Congresso Triennale Anatomia Patologica SIAPEC. Genova, Nov 23-24 2017- Invited talk

N Malara, *Early cancer detection using organic electrochemical transistor based on the conductive polymer.* Nanoinnovation Roma, Sept 20-23 2016-Invited talk

N Malara, *A promising biomarker of early cancer detection: the liquid biopsy* SIC Napoli Oct 27-30 2015-Invited talk

N Malara, *CD326+CD29+ expression in liquid and tissue biopsy to redefine personalized treatment of NSCLC.* SIC Napoli Oct 27-30 2015-Invited talk

N Malara, *Cellule Endoteliali Circolanti: una sfida promettente in medicina traslazionale.* Roma, June 21-22 2016-Invited talk

N Malara, Workshop on *Circulating endothelial cells: promising challenge in translational medicine.* Germaneto, May 10-11 2015 - Organization and Moderation

N Malara, *Circulating Roundtables.* Berlin, March 17-18 2015 - Moderator

N Malara, *Toxicological investigations on Cultivated Circulating Tumour Cells to monitor anticancer treatment improving patient management.* San Diego, Feb 02-03 2012 - Invited talk

N Malara, *Circulating Cancer Cell Analysis. Raman Technology and Clinical Applications.* Singapore, June 22-25 2010 - Invited talk

N Malara, *Update on epigenetic changes in circulating cancer cells. A new generation of Tumor Markers,* First International Congress, Squillace, May 14-17 2010 - Organization and talk

List of Publications

Peer reviewed papers

Onesto V, Villani M, Narducci R, **Malara N**, Imbrogno A, Allione M, Costa N, Coppedè N, Zappettini A, Cannistraci CV, Cancedda L, Amato F, Di Fabrizio E, Gentile F. Cortical-like mini-columns of neuronal cells on zinc oxide nanowire surfaces. *Sci Rep*. 2019 Mar 11;9(1):4021. doi: 10.1038/s41598-019-40548-z. PMID: 30858456

Presta I, Vismara M, Novellino F, Donato A, Zaffino P, Scali E, Pirrone KC, Spadea MF, **Malara N**, Donato G. Innate Immunity Cells and the Neurovascular Unit. *Int J Mol Sci*. 2018 Dec 3;19(12). Review.. doi: 10.3390/ijms19123856.

Malara N, Gentile F, Coppedè N, Coluccio ML, Candeloro P, Perozziello G, Ferrara L, Giannetto M, Careri M, Castellini A, Mignogna C, Presta I, Pirrone CK, Maisano D, Donato A, Donato G, Greco M, Scumaci D, Cuda G, Casale F, Ferraro E, Bonacci S, Trunzo V, Mollace V, Onesto V, Majewska R, Amato F, Renne M, Innaro N, Sena G, Sacco R, Givigliano F, Voci C, Volpentesta G, Guzzi G, Lavano A, Scali E, Bottoni U, Di Fabrizio E. (2018) Superhydrophobic Lab-on-chip exploring protonation state in secretome assess personalized onset-risk of sporadic tumour. *Nature precision oncology* doi:10.1038/s41698-018-0069-7 ISSN 2397-768X

Malara N, Innaro N, Mignogna C, Presta I, Pirrone KC, Donato A, Gangemi V, Sacco R, Mollace V, Donato G. (2018) La biopsia liquida nella diagnosi del carcinoma tiroideo indifferenziato. *L'Endocrinologo* Volume 19, Issue 5, pp 270–272

Di Vito A, Giudice A, Chiarella E, **Malara N**, Bennardo F, Fortunato L. In Vitro Long-Term Expansion and High Osteogenic Potential of Periodontal Ligament Stem Cells: More Than a Mirage. *Cell Transplant*. 2018 Oct 28;963689718807680. doi: 10.1177/0963689718807680.

Gorini S, De Angelis A, Berrino L, **Malara N**, Rosano G, Ferraro E. Chemotherapeutic Drugs and Mitochondrial Dysfunction: Focus on Doxorubicin, Trastuzumab, and Sunitinib. *Oxid Med Cell Longev*. 2018 Mar 18;2018:7582730. doi: 10.1155/2018/7582730. eCollection 2018. Review.

Lanuti P, Simeone P, Rotta G, Almici C, Avvisati G, Azzaro R, Bologna G, Budillon A, Di Cerbo M, Di Gennaro E, Di Martino ML, Diodato A, Doretto P, Ercolino E, Falda A, Gregorj C, Leone A, Losa F, **Malara N**, Marini M, Mastroroberto P, Mollace V, Morelli M, Muggianu E, Musolino G, Neva A, Pierdomenico L, Pinna S, Piovani G, Roca MS, Russo D, Scotti L, Tirindelli MC, Trunzo V, Venturella R, Vitagliano C, Zullo F, Marchisio M, Miscia S. A standardized flow cytometry network study for the assessment of circulating endothelial cell physiological ranges. *Sci Rep*. 2018 Apr 11;8(1):5823. doi: 10.1038/s41598-018-24234-0.

Guadagno E, Presta I, Maisano D, Donato A, Pirrone CK, Cardillo G, Corrado SD, Mignogna C, Mancuso T, Donato G, Del Basso De Caro M and **Malara N**. Role of Macrophages in Brain Tumor Growth and Progression. *Int J Mol Sci*. 2018 Mar 27;19(4). pii: E1005. doi: 10.3390/ijms19041005. Review.

Di Vito A, Santise G, Mignogna C, Chiefari E, Cardillo G, Presta I, Arturi F, **Malara N**, Brunetti F, Donato A, Maisano D, Leonetti S, Maselli D, Barni T, Donato G. Innate immunity in cardiac myxomas and its pathological and clinical correlations. *Innate Immun*. 2018 Jan;24(1):47-53. doi: 10.1177/1753425917741678. Epub 2017 Nov 16.

Ivan Presta, Elia Guadagno, Anna Di Vito, **Natalia Malara**, Chiara Mignogna, Domenico Maisano, Annalidia Donato, Gabriella Cardillo, Maria Laura Del Basso De Caro, Giuseppe Donato. INNATE IMMUNITY MAY PLAY A ROLE IN GROWTH AND RELAPSE OF CHORDOID MENINGIOMA. *International Journal of Immunopathology and Pharmacology* 2017 <https://doi.org/10.1177/0394632017730241> <https://doi.org/10.1177/03946320177302>

V. Onesto, L. Cancedda, M. L. Coluccio, M. Nanni, M. Pesce, **N. Malara**, M. Cesarelli, E. Di Fabrizio, F. Amato, F. Gentile: Nano-topography Enhances Communication in Neural Cells Networks. *Scientific Reports* 12/2017; 7(1)., DOI:10.1038/s41598-017-09741-w

Vincenzo Mollace, Giuseppe Rosano, **Natalia Malara**, Enzo Di Fabrizio, Cristiana Vitale, Marialaura Coluccio, Jessica Maiuolo, Ayesha Ali Wasti, Carolina Muscoli, Micaela Gliozzi, Rocco Mollace, Vincenzo Musolino, Cristina Carresi, Massimo Fini, Bruno Silvestrini: Aspirin wears smart. 05/2017;, DOI:10.1093/ehjcvp/pvx017

Chiara Mignogna, Ida Barca, Anna Di Vito, Francesca Puleo, **Natalia Malara**, Amerigo Giudice, Mario Giudice, Tullio Barni, Giuseppe Donato, Maria Giulia Cristofaro: Extravascular type of intravascular papillary endothelial hyperplasia mimicking

parotid gland neoplasia and the possible role of ferritin in the pathogenesis: A case report. *Molecular and Clinical Oncology* 12/2016; 6(2)., DOI:10.3892/mco.2016.1117

Patrizio Candeloro, Ernesto Luele, Gerardo Perozziello, Maria Laura Coluccio, Francesco Gentile, **Natalia Malara**, Vincenzo Mollace, Enzo Di Fabrizio: Plasmonic nanoholes as SERS devices for biosensing applications: An easy route for nanostructures fabrication on glass substrates. *Microelectronic Engineering* 12/2016;., DOI:10.1016/j.mee.2016.12.015

N. Malara, G. Guzzi, C. Mignogna, V. Trunzo, C. Camastra, A. Della Torre, A. Di Vito, A. M. Lavecchia, M. Gliozzi, C. Ceccotti, G. Volpentesta, A. Lavano, G. Donato, V Mollace: Non-invasive real-time biopsy of intracranial lesions using short time expanded circulating tumor cells on glass slide: Report of two cases. *BMC Neurology* 12/2016; 16(1)., DOI:10.1186/s12883-016-0652-x

Chiara Mignogna, Nicoletta Staropoli, Cirino Botta, Carmela De Marco, Antonia Rizzuto, Michele Morelli, Annalisa Di Cello, Renato Franco, Caterina Camastra, Ivan Presta, **Natalia Malara**, Angela Salvino, Pierfrancesco Tassone, Pierosandro Tagliaferri, Tullio Barni, Giuseppe Donato, Anna Di Vito: Aurora Kinase A expression predicts platinum-resistance and adverse outcome in high-grade serous ovarian carcinoma patients. *Journal of Ovarian Research* 12/2016; 9(1)., DOI:10.1186/s13048-016-0238-7

Natalia Malara, Valentina Trunzo, Umberto Foresta, Nicola Amodio, Stefania De Vitis, Laura Roveda, Mariagiovanna Fava, MariaLaura Coluccio, Roberta Macrì, Anna Di Vito, Nicola Costa, Chiara Mignogna, Domenico Britti, Ernesto Palma, Vincenzo Mollace: Ex-vivo characterization of circulating colon cancer cells distinguished in stem and differentiated subset provides useful biomarker for personalized metastatic risk assessment. *Journal of Translational Medicine* 12/2016; 14(1)., DOI:10.1186/s12967-016-0876-y

Natalia Malara, Francesco Gentile, Lorenzo Ferrara, Marco Villani, Salvatore Iannotta, Andrea Zappettini, Enzo Di Fabrizio, Valentina Trunzo, Vincenzo Mollace, Nicola Coppédé: Tailoring super-hydrophobic properties of electrochemical biosensor for early cancer detection. 08/2016; -1:1-8., DOI:10.1557/adv.2016.543

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Patents

1. Italian Patent; title: test di valutazione di efficacia dei chemioterapici effettuato su tre distinte e complementari popolazioni cellulari derivate dalla massa tumorale solida “ Inventor: **Natalia Malara**. Italian Patent deposited: nr. . CZ2007A000004 on June 6th, 2007
2. Italian Patent; title: Metodo di diagnosi del cancro e relativo kit”; Inventors: **Malara Natalia**, Gentile Francesco, Nicola Coppedè, Di Fabrizio Enzo with University of Magna Grecia of Catanzaro. Italian Patent deposited: nr. 102018000010263 on November 11th, 2018.
3. International Patent; title: METHOD AND KIT FOR DIAGNOSIS AND/OR PROGNOSIS OF NONHEMATOLOGICAL TUMORS Inventors: **Natalia Malara** , Vincenzo Mollace Date: November, 2018.

Member of committee

- o Member of the committee and reading committee for the final examination for the Human Histology program in Medical Course Faculty of Medicine University Magna Graecia, Italy. (Academic year 2017/2018)
- o Member of the committee and reading committee for the final examination for the PhD program in, XXVIII cycle alumni, "Diagnosis, Prognosis, Therapy and Monitoring in Cancer Personalized Nanomedicine” University Magna Graecia of Catanzaro, Italy. (Academic year 2017/2018)
- o Member of the committee and reading committee for the final examination for the program in Master of Liquid Biopsy titled “Screening, diagnosis and prognosis and evaluation of the in vitro drugs efficiency with the liquid biopsy” School of High Formation. Faculty of Medicine University Magna Graecia, Italy. (Academic year 2017/2018)

Supervised students

MS Krizia Pirrone. University Magna Graecia. 2018
Dr Valentina Trunzo. University Magna Graecia. 2017
Mr Mirco Artese. University Magna Graecia. 2017
MS Roberta Macri. University Magna Graecia. 2016
Mr Giovanni Lo Prete. University Magna Graecia. 2014
Ms Lorenza Macrina. University Magna Graecia. 2012
Dr Domenico Focà. University Magna Graecia. 2011

Grants and funding

2018	€5,600 Adhesions to Professional Course on Liquid Biopsy direct by NM
2014-2017	€360,000 Co-investigator. “ <i>High-level analysis of parallelization of tumor cells for the evaluation of therapies through microfluidic platforms integrating nano plasmonic devices</i> ” Grant for young researchers funded by Italian minister of health:GR-2010-2311677

2006-2008	€50,000 Research Fellow FIRC “Marco Claudio Segre” (AIRC). <i>“Development of new therapeutic strategies for the treatment of multiple myeloma with the combined study of the intracellular pathways of signal transduction.”</i>
2012-2015	€14,000,000 Co-investigator project Interregional Research Centre for Food Safety & health (IRC_FSH) cod. PON a3-00359
1994-1995	€12,000 Bonino Pulejo Foundation with the “friends of Lincei Academy” Research Fellowship assigned for the best medical student.

Data

14-03-2019

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