

## CURRICULUM FORMATIVO E PROFESSIONALE

### Informazioni personali

- Nome: NUNZIATINA LAURA
- Cognome: PARRINELLO
- Nazionalità: ITALIANA
- Data di nascita: 17/08/1977

### Istruzione

**Diploma di maturità classica**, conseguito presso il Liceo Classico “Don Cavina F.” di Randazzo (CT) .

**Laurea in Scienze Biologiche** - indirizzo fisiopatologico-, conseguita presso l’Università degli Studi di Catania, in data 27-10-2004 con votazione 110/110 e lode.

Materia della tesi sperimentale: “Chimica Organica.

Titolo della tesi : “Separazione in HPLC Chirale e Spettri di Dicroismo Circolare di Enantiomeri di molecole di interesse biologico e farmacologico”, Relatore: Prof. S. Caccamese

**Qualifica di Cultore** per la disciplina “Chimica Organica”.

**Abilitazione alla professione di Biologo** conseguita nella prima sessione 2005 con votazione 144/150.

**Iscrizione all’Ordine Nazionale dei Biologi** sezione A. Numero d’ordine: 055704.

**Specializzazione in Biochimica Clinica e Biologia Molecolare**, conseguita presso l’Università degli Studi di Catania in data 08-11-2010 con votazione 70/70 e lode.

Titolo della tesi : “Alterazioni immunologiche nelle gammopatie monoclonali”, Relatore: Prof. F. Di Raimondo.

**Dottorato di ricerca in Medicina Molecolare**, XXVIII ciclo, Dip.L.240/2010, conseguito presso l’Università degli Studi di Catania, in data 08-02-2016.

Titolo della tesi : “Alterazioni dei neutrofili nei pazienti con Mieloma Multiplo”, Relatore: Prof. F. Di Raimondo.

### Conoscenze informatiche

Conoscenza del sistema operativo Windows e di programmi (Microsoft Word, Microsoft Excel, Microsoft Power Point, programmi di grafica, Internet explorer, Front Page, ecc), Isis Draw ,Chem Window, Statwiew, GraphPad, Modfitlt. Capacità di navigazione in Internet per ricerca su banche dati scientifiche ( es: Science Finder, Beilstein, Scientific Word, Medline).

### Conoscenze Lingue straniere

Conoscenza scolastica dell’inglese; Buona conoscenza del francese.

## Esperienze lavorative

### **Dal 16/02/07 al 16/02/08**

Progetto di ricerca annuale per la prevenzione e cura della talassemia presso l'Azienda Ospedaliera Universitaria Vittorio Emanuele- Ferrarotto- S.Bambino di Catania. Prog. N.**T14-10**, dal titolo: *“Effetti dell'idrossiurea sui livelli plasmatici di molecole di adesione endoteliale (ICAM-1, VCAM-1, E-SELECTIN) e inibitori naturali della coagulazione (proteina C, proteina S) in pazienti con drepanocitosi, talassodrepanocitosi e beta-talassemia intermedia”*.

### **Dal 27/02/8 al 30/06/08**

Contratto di lavoro a progetto stipulato dall'AIL Catania (Associazione Italiana contro le leucemie-linfomi e mieloma) sulla seguente ricerca :*“Espressione del CD200 sui linfociti T nei trapianti d'organo”*.

### **Dal 01/05/09 al 30/04/2011**

Progetto di ricerca biennale per la prevenzione e cura della talassemia presso l'Azienda Ospedaliera Universitaria Vittorio Emanuele- Ferrarotto- S.Bambino di Catania-Prog. N. **T16-17**, dal titolo *“Ruolo fiopatologico del sistema rankl /osteoprotegerina nei processi di osteoporosi ed osteosclerosi dei pazienti con malattia drepanocitica e talasso-drepanocitica”*.

### **Dal 01/05/11 al 20/01/2013**

Progetto di ricerca biennale per la prevenzione e cura della talassemia presso l'Azienda Ospedaliera Universitaria Policlinico-Vittorio Emanuele di Catania. Prog. N **T18/5**, dal titolo *“Livelli Plasmatici di Vascular Endothelial Growth Factor e di Tumor Necrosis Factor-Alfa in pazienti con Talassemia Intermedia e Talassodrepanocitosi e loro correlazione con lo stress ossidativo e con la severità di malattia”*.

### **Dal 22-07-2013 al 23-12-2015**

Contratto di collaborazione a progetto presso Istituto Oncologico del Mediterraneo, Viagrande. **PON 01\_02418** dal titolo *“Medicina Traslazionale in Oncologia: dalla ricerca alla terapia”*.

### **Dal 31-12-2015 al 31-05-2017**

Incarico di Collaborazione Coordinata e Continuativa avente ad oggetto "Esami di Laboratorio Citofluorimetrici", presso Istituto Oncologico del Mediterraneo, Viagrande.

### **Dal 15-12-2015 al 14-12-2017**

Contratto di collaborazione a progetto di ricerca finalizzata dal titolo "Role Of The Immunological Impairment In Progression From Mgas To Multiple Myeloma"-U.O.C Ematologia P.O Ferrarotto, Catania

### **Dal 05-06-2017 ad Oggi e con scadenza il 31-05-2018**

Incarico di Collaborazione Coordinata e Continuativa avente ad oggetto "Esami di Laboratorio Citofluorimetrici", presso Istituto Oncologico del Mediterraneo, Viagrande.

## Competenze Tecniche









Cromatografia Liquida ad Alta Pressione (HPLC);  
Spettrofotometro UV;  
Spettropolarimetro CD;

Polarimetro;  
Elisa;  
Estrazione di prodotti naturali da *Citrus*;  
Citofluorimetro FacsCalibur (Becton Dickinson);  
Citofluorimetro EPICS XL-MCL (Beckman-Coulter);  
Citofluorimetro FC-500 (Beckman-Coulter);  
Citofluorimetro NAVIOS (Beckman-Coulter);





















## Produzione scientifica

I Prodotti dell'attività di ricerca sono documentati da n.43 Pubblicazioni, oltre n.150 tra abstracts, poster, oral communications











### Papers (published in peer-reviewed journals)











-  Putkonen T, Tolvanen A, Jokela R, Caccamese S, **Parrinello N**. **Total synthesis of (±)-tangutorine and chiral HPLC separation of enantiomers**. *TETRAHEDRON* (2003);59:8589-8595.
-  Giorgio E, **Parrinello N**, Caccamese S, Rosini C. **Non empirical assignment of the absolute configuration of (-)-naringenin, by coupling the exciton analysis of the circular dichroism spectrum and the ab initio calculation of the optical rotatory power**. *ORGANIC & BIOMOLECULAR CHEMISTRY* (2004) Dec;2(24):3602-7. PubMed PMID:15592618
-  Caccamese S, **Parrinello N**, Failla S, Consiglio G, Finocchiaro P. **Chiral HPLC separation and CD spectra of the enantiomers of a molecular "Hamburger"**. *MENDELEEV COMMUNICATIONS* (2004);6: 237-239.
-  Caccamese S, Caruso C, **Parrinello N**, Savarino A. **High-performance liquid chromatographic separation and chiroptical properties of the enantiomers of naringenin and other flavanones**. *JOURNAL OF CHROMATOGRAPHY A* (2005) May;1076(1-2):155-62. PubMed PMID:15974082
-  Claps M, **Parrinello N**, Saa C, Varela JA, Caccamese S, Rosini C. **Assignment of the absolute configuration of (+)-5,5',6,6'-tetrahydro-7,7'-spiro[7H-cyclopenta[b]pyridine], a new inherently chiral spiro pyridine, by a nonempirical analysis of its circular dichroism spectrum**. *TETRAHEDRON-ASYMMETRY* (2006);17:1387-1393.
-  Zappala' M, Postorino G, Micale N, Caccamese S, **Parrinello N**, Grazioso G, Roda G, Menniti FS, De Sarro G, Grasso S. **Synthesis, chiral resolution, and enantiopharmacology of a potent 2,3-benzodiazepine derivative as noncompetitive AMPA receptor antagonist**. *JOURNAL OF MEDICINAL CHEMISTRY* (2006) Jan;49(2):575-81. PubMed PMID:16420043
-  Palumbo GA, **Parrinello N**, Fargione G, Cardillo K, Chiarenza A, Berretta S, Conticello C, Villari L, Di Raimondo F. **CD200 expression may help in differential diagnosis between mantle cell lymphoma and B-cell chronic lymphocytic leukemia**. *LEUKEMIA RESEARCH* (2009) Feb;33 (9):1212-1216. PubMed PMID:19230971
-  Stagno F, Triolo A, Del Fabro V, Berretta S, **Parrinello NL**, Fargione G, Di Raimondo F. **Aberrant phenotypic expression of the T-cell-associated antigen CD8 on B-cell chronic lymphocytic**

- leukemia cells. LABORATORY HEMATOLOGY** (2009);15(1):1-3. PubMed PMID:19273392
- 📁📄🔍 Giuffrida G, Cingari MR, **Parrinello NL**. **Valutazione dei livelli ematici di ferritina e indici bioumorali in paziente affetta da talassodrepanocitosi sottoposta a terapia ferrochelante orale. Collection Anemia Congenita ed emosiderosi cronica trasfusione Casi Clinici wolters kluwer/Adis.**(2009);3-5.
- 📁📄🔍 Barbagallo I, Vanella A, Peterson Sj, Kim Dh, Tibullo D, Giallongo C, Vanella L, **Parrinello N**, Palumbo GA, Di Raimondo F, Abraham NG, Asprinio D. **Overexpression of heme oxygenase-1 increases human osteoblast stem cell differentiation. JOURNAL OF BONE AND MINERAL METABOLISM** (2010)Nov;28 (3):276-88. PubMed PMID 19924377
- 📁📄🔍 Stagno F, Del Fabro V, Triolo A, **Parrinello NL**, Vigneri P, Di Raimondo F. **Utility of flow cytometry as a screening tool for transplant donors for chronic lymphocytic leukaemia. ACTA HAEMATOLOGICA** (2010)May;123(4):235-6. PubMed PMID:20453493
- 📁📄🔍 Giallongo C, La Cava P, Tibullo D, **Parrinello N**, Barbagallo I, Del Fabro V, Stagno F, Conticello C, Romano A, Chiarenza A, Palumbo GA, Di Raimondo F. **Imatinib increases cytotoxicity of melphalan and their combination allows an efficient killing of chronic myeloid leukemia cells. EUROPEAN JOURNAL OF HAEMATOLOGY** (2011) Feb;86(3):216-25. PubMed PMID:21198861
- 📁📄🔍 Giallongo C, Tibullo D, La Cava P, Branca A, **Parrinello N**, Spina P, Stagno F, Conticello C, Chiarenza A, Vigneri P, Palumbo GA, Di Raimondo F. **BRIT1/MCPH1 Expression in Chronic Myeloid Leukemia and Its Regulation of the G2/M Checkpoint. ACTA HAEMATOLOGICA** (2011)Sep;126(4):205-10. PubMed PMID:21934293
- 📁📄🔍 Conticello C, Martinetti D, Adamo L, Buccheri S, Giuffrida R, **Parrinello N**, Lombardo L, Anastasi G, Amato G, Cavalli M, Chiarenza A, De Maria R, Giustolisi R, Gulisano M, Di Raimondo F. **Disulfiram, an old drug with new potential therapeutic uses for human hematological malignancies. INTERNATIONAL JOURNAL OF CANCER** (2012) Nov;131(9):2197-203. PubMed PMID:22322883
- 📁📄🔍 Giuffrida G, Cingari MR, **Parrinello N**, Romano A, Triolo A, Franceschino M, Di Raimondo F. **Bone turnover markers in patients with type 1 Gaucher disease. HEMATOLOGY REPORTS** (2012) Nov;4(4):e21. PubMed PMID:23355939
- 📁📄🔍 Tibullo D, Barbagallo I, Giallongo C, La Cava P, **Parrinello N**, Vanella L, Stagno F, Palumbo GA, Li Volti G, Di Raimondo F. **Nuclear translocation of heme oxygenase-1 confers resistance to Imatinib in chronic myeloid leukemia. CURRENT PHARMACEUTICAL DESIGN** (2013);(15):2765-70. PubMed PMID:23092325
- 📁📄🔍 Barbagallo D, Piro S, Condorelli AG, Mascali LG, Urbano F, **Parrinello N**, Monello A, Statello L, Ragusa M, Rabuazzo AM, Di Pietro C, Purrello F, Purrello M. **miR-296-3p, miR-298-5p and their downstream networks are causally involved in the higher resistance of mammalian pancreatic  $\alpha$  cells to cytokine-induced apoptosis as compared to  $\beta$  cells. BMC GENOMICS** (2013) Jan;14:62. PubMed PMID:23360399
- 📁📄🔍 Giallongo C, La Cava P, Tibullo D, Barbagallo I, **Parrinello N**,

- Cupri A, Stagno F, Consoli C, Chiarenza A, Palumbo GA, Di Raimondo F. **SPARC expression in CML is associated to imatinib treatment and to inhibition of leukemia cell proliferation.** *BMC CANCER* (2013) Feb;3:60. PubMed PMID:23383963
-   Giuffrida G, Lombardo R, **Parrinello N**, Di Francesco E, Cingari MR. **Trombocitemia essenziale: intolleranza e resistenza alla terapia con Idrossiurea e ottimale risposta al trattamento con anagrelide**, *MPDS INPRACTICE* (2013) Jan;1:annoXVI.
-   Conticello C, Giuffrida R, **Parrinello N**, Buccheri S, Adamo L, Sciuto MR, Colarossi C, Aiello E, Chiarenza A, Romano A, Salomone E, Gulisano M, Giustolisi R, Di Raimondo F. **CD200 expression in patients with Multiple Myeloma: another piece of the puzzle.** *LEUKEMIA RESEARCH* (2013) Sep;37(12):1616-1621. PubMed PMID:24183830
-   Giuffrida G, **Parrinello N**, Lombardo R, Di Francesco E, Cingari MR, Ussia GP. **PTA nella Coartazione Aortica in un paziente con Emofilia A e Alto Titolo di Inibitori mediante FEIBA.** *CURRENT THERAPEUTICS*. (2014).
-   Giuffrida G, Lombardo R, **Parrinello NL**, Cingari MR, Di Francesco E, Triolo AM, Ussia GP, Arcidiacono AA, Scandura S, Di Raimondo F. **Percutaneous transluminal angioplasty and stent implantation for aortic coarctation in haemophilia A patient with high-titre factor VIII inhibitor.** *HAEMOPHILIA* (2014) Jul;20(4):e336-8. PubMed PMID:24716605
-   Barbagallo D, Condorelli AG, Piro S, **Parrinello N**, Fløyel T, Ragusa M, Rabuazzo AM, Størling J, Purrello F, Di Pietro C, Purrello M. **CEBPA exerts a specific and biologically important proapoptotic role in pancreatic  $\beta$  cells through its downstream network targets.** *MOLECULAR BIOLOGY OF THE CELL* (2014) Aug;25(16):2333-41. PubMed PMID:24943845
-   Romano A, Vetro C, Caocci G, Greco M, **Parrinello NL**, Di Raimondo F, La Nasa G. **Immunological deregulation in classic hodgkin lymphoma.** *MEDITERRANEAN JOURNAL OF HEMATOLOGY AND INFECTIOUS DISEASES* (2014) Jun;6(1):e2014039. PubMed PMID:24959336
-   Romano A, Conticello C, Cavalli M, Vetro C, Di Raimondo C, Di Martina V, Schinocca E, La Fauci A, **Parrinello NL**, Chiarenza A, Di Raimondo F. **Salvage therapy of multiple myeloma: the new generation drugs.** *BIOMED RESEARCH INTERNATIONAL* (2014) May;456037. PubMed PMID:24967371
-   Romano A, Conticello C, Cavalli M, Vetro C, La Fauci A, **Parrinello NL**, Di Raimondo F. **Immunological dysregulation in multiple myeloma microenvironment.** *BIOMED RESEARCH INTERNATIONAL* (2014) Jun;198539. PubMed PMID:25013764
-   Giallongo C, **Parrinello N**, Tibullo D, La Cava P, Romano A, Chiarenza A, Barbagallo I, Palumbo GA, Stagno F, Vigneri P, Di Raimondo F. **Myeloid derived suppressor cells (MDSCs) are increased and exert immunosuppressive activity together with polymorphonuclear leukocytes (PMNs) in chronic myeloid leukemia patients.** *PLOS ONE* (2014) Jul;9(7):e101848. PubMed PMID:25014230
-   **Parrinello NL**, Di Raimondo F, Romano A. **Myeloid Derived Suppressor Cells in Multiple Myeloma,** *EXPERT REVIEWS OF*

*IMMUNOLOGY VACCINES AND INFORMATICS* (2014) Jun;1(1):4-13.

-  **Parrinello NL**, Romano A. **Il ruolo delle cellule Mieloidi nel Mieloma Multiplo.** *EMATOLOGIA E DINTORNI* (2014) Mar; 2 (2).
-  Romano A, **Parrinello NL**, Vetro C, Forte S, Chiarenza A, Figuera A, Motta G, Palumbo GA, Ippolito M, Consoli U, Di Raimondo F. **Circulating myeloid-derived suppressor cells correlate with clinical outcome in Hodgkin Lymphoma patients treated up-front with a risk-adapted strategy.** *BRITISH JOURNAL OF HAEMATOLOGY* (2015) Mar;168(5):689-700. PubMed PMID:25376846
-  Giallongo C, **Parrinello N**, Brundo MV, Raccuia SA, Di Rosa M, La Cava P, Tibullo D. **Myeloid derived suppressor cells in chronic myeloid leukemia.** *FRONTIERS IN ONCOLOGY* (2015) May; 15;5:107. PubMed PMID:26029664
-  Vetro C, Romano A, Ancora F, Coppolino F, Brundo MV, Raccuia SA, Puglisi F, Tibullo D, La Cava P, Giallongo C, **Parrinello NL**. **Clinical Impact of the Immunome in Lymphoid Malignancies: The Role of Myeloid-Derived Suppressor Cells.** *FRONTIERS IN ONCOLOGY* (2015) May; 21;5:104. PubMed PMID:26052505
-  Calabrese G, Giuffrida R, Furno DL, **Parrinello NL**, Forte S, Gulino R, Colarossi C, Schinocca LR, Giuffrida R, Cardile V, Memeo L. **Potential Effect of CD271 on Human Mesenchymal Stromal Cell Proliferation and Differentiation.** *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES* (2015) Jul;16(7):15609-24. PubMed PMID:26184166
-  Romano A, **Parrinello NL**, Consoli ML, Marchionni L, Forte S, Conticello C, Pompa A, Corso A, Milone G, Di Raimondo F, Borrello I. **Neutrophil to lymphocyte ratio (NLR) improves the risk assessment of ISS staging in newly diagnosed MM patients treated upfront with novel agents.** *ANNALS OF HEMATOLOGY* (2015) Nov;94(11):1875-83. PubMed PMID:26223359
-  Giuffrida G, Lombardo R, **Parrinello N**, Di Francesco E, Scandura S, Mangiafico S, Arcidiacono AA, Di Raimondo F. **Percutaneous transluminal aortic valve implantation for severe aortic valve stenosis in a patient with severe haemophilia A.** *HAEMOPHILIA* (2015) Nov;21(6):e500-3. PubMed PMID:26228898
-  Tibullo D, Di Rosa M, Giallongo C, La Cava P, **Parrinello NL**, Romano A, Conticello C, Brundo MV, Saccone S, Malaguarnera L, Di Raimondo F. **Bortezomib modulates CHIT1 and YKL40 in monocyte-derived osteoclast and in myeloma cells.** *FRONTIERS IN PHARMACOLOGY* (2015) Oct;6:226. PubMed PMID:26528182
-  Vicari L, Calabrese G, Forte S, Giuffrida R, Colarossi C, **Parrinello NL** and Memeo L. **Potential Role of Activating Transcription Factor 5 during Osteogenesis.** *STEM CELLS INTERNATIONAL* (2016)Dec:5282185. PubMed PMID:26770207
-  Giallongo C, Tibullo D, **Parrinello NL**, La Cava P, Di Rosa M, Bramanti V, Di Raimondo C, Conticello C, Chiarenza A, Palumbo GA, Avola R, Romano A, Di Raimondo F. **Granulocyte-like myeloid derived suppressor cells (G-MDSC) are increased in multiple myeloma and are driven by dysfunctional mesenchymal stem cells (MSC).** *ONCOTARGET* (2016) Dec;7(52):85764-85775. PubMed PMID:26967390

-   Giallongo C, Romano A, **Parrinello NL**, La Cava P, Brundo MV, Bramanti V, Stagno F, Vigneri P, Chiarenza A, Palumbo GA, Tibullo D, Di Raimondo F. **Mesenchymal Stem Cells (MSC) Regulate Activation of Granulocyte-Like Myeloid Derived Suppressor Cells (G-MDSC) in Chronic Myeloid Leukemia Patients.** *PLOSE ONE* (2016) Jul;11(7):e0158392. PubMed PMID:27391078
-   Romano A, **Parrinello NL**, Vetro C, Tibullo D, Giallongo C, La Cava P, Chiarenza A, Motta G, Caruso AL, Villari L, Tripodo C, Cosentino S, Ippolito M, Consoli U, Gallamini A, Pileri S, Di Raimondo F. **The prognostic value of the myeloid-mediated immunosuppression marker Arginase-1 in classic Hodgkin lymphoma.** *ONCOTARGET* (2016) Oct;7(41):67333-67346. PubMed PMID:27637084
-   Tibullo D, Caporarello N, Giallongo C, Anfuso CD, Genovese C, Arlotta C, Puglisi F, **Parrinello NL**, Bramanti V, Romano A, Lupo G, Toscano V, Avola R, Brundo MV, Di Raimondo F, Raccuia SA. **Antiproliferative and Antiangiogenic Effects of Punica granatum Juice (PGJ) in Multiple Myeloma (MM).** *NUTRIENTS* (2016) Oct;8(10). PubMed PMID:27706074
-   Giuffrida G, Lombardo R, Di Francesco E, **Parrinello L**, Di Raimondo F, Fiumara A. **Successful switch from enzyme replacement therapy to miglustat in an adult patient with type 1 Gaucher disease: a case report.** *JOURNAL OF MEDICAL CASE REPORTS* (2016) Nov;10(1):315. PubMed PMID:27821156
-   Romano A, Giallongo C, La Cava P, Parrinello NL, Chiechi A, Vetro C, Tibullo D, Di Raimondo F, Liotta LA, Espina V, Palumbo GA. **Proteomic Analysis Reveals Autophagy as Pro-Survival Pathway Elicited by Long-Term Exposure with 5-Azacitidine in High-Risk Myelodysplasia.** *FRONTIERS IN PHARMACOLOGY* (2017) Apr;8:204. PubMed PMID:28491035

#### Conference contributions (Abstracts published in peer-reviewed journals)

1. Stagno F, Mannino F, Triolo A, Seria E, Privitera A, Fargione G, **Parrinello NL**, Guglielmo P, Giustolisi R. (2005). **Cutaneous and pulmonary cryptococcosis infection in chronic lymphocytic leucemia.** 7<sup>th</sup> European Congress of Chemotherapy and Infection. Firenze, 19-22 October (2005). (**Journal of Chemotherapy 2005;volume 17: abstract 114**).
2. **Parrinello NL**, Fargione G, Triolo A, Privitera A, Seria E, Mannino F, Di Raimondo F, Guglielmo P, Giustolisi R. (2005). **Flow Cytometric detection and phenotype of circulating CD34+ cells in patients affected by chronic lymphocytic leukaemia.** 47<sup>th</sup> Annual Meeting ASH (American Society of Hematology), Atlanta (Georgia),10-13 December (2005). (**Blood, volume 106, abstract 4329**).
3. Berretta S, **Parrinello N**, Fargione G, Tibullo D, Stagno F, Chiarenza A, Palumbo G.A, Di Raimondo F.(2007). **Different in vitro alemtuzumab-induced apoptosis on T and B lymphocytes of B-CLL patients.** 41<sup>th</sup> Congress of the Italian Society of Hematology, Bologna 14-17 October (2007). (**Haematologica/the hematology journal, volume 92, abstract CO-044**).

4. Palumbo G.A, Forgione G, Parrinello N, Cardillo K, Chiarenza A, Berretta S, Stagno F, Villari L, Di Raimondo F. (2007). **CD200 Expression May Help in Differential Diagnosis between Mantle Cell Lymphoma (MCL) and B-Cell Chronic Lymphocytic Leukemia (B-CLL)**. 49<sup>th</sup> Annual Meeting ASH (American Society of Hematology), Atlanta (Georgia), 8-11 December (2007). (**Blood, Volume 110, abstract 4672**).
5. Giallongo C, Tibullo D, La Cava P, Parrinello N, Romano A, Cavalli M, Conticello C, Palumbo G.A, Di Raimondo F. (2008). **Imatinib increases cytotoxicity of melphalan and decreases prolongation of G2-M phase in human K562 cells**. X Congress of the Italian Society of Experimental Hematology, Bari 24-26 September (2008).(**Haematologica/ the hematology journal, volume 93, abstract P064**).
6. Giuffrida G, Cingari M.R, Parrinello NL, Figuera A. (2008).**The Hydroxyurea effects on plasma levels and surface expression of adhesion molecules ICAM-1 VCAM-1,E-SELECTIN and on plasma levels of protein C and protein S in patients with sickle cell disease and  $\beta$ .thalassemia intermedia**. 50<sup>th</sup> Annual Meeting ASH (American Society of Hematology), San Francisco, 6-9 December (2008).(**Blood, Volume 112, abstract 5468**).
7. Parrinello N, Chiarenza A, Foti R, Conticello C, Del Fabro V, Berretta S, Fiumara P, Schinocca L, Stagno F, Di Raimondo F, (2009).**CD200 expression in patients with autoimmune diseases**. 42<sup>o</sup> Congress of the Italian Society of Hematology, Milan 18-21 October (2009). (**Haematologica/ the hematology journal, volume 94, abstract P163**)
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(2014).(**Blood/ journal of the American society of hematology, volume 124, abstract 5694**)

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89. Tibullo D, Di Rosa M, Giallongo C, La Cava P, Parrinello N, Romano A, Puglisi F, Conticello C, Saccone S, Chiarenza A, Malaguarnera.L,Di.Raimondo.F(2015).**Bortezomib.Inhibits.Osteoclastogenesis.and Bone Resorption Through Modulation Of Chit1 And Ykl40 Expression.** 45° Congress SIE (Italian Society of Hematology), Florence, Italy, 4-7 October (2015). (**Haematologica/ the hematology journal 100(s3)P118**)
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91. Giallongo C, Parrinello N, Tibullo D, La Cava P, Romano A, Chiarenza A, Stagno F, Vigneri P, Palumbo G.A, Di Raimondo F. (2015). **Mesenchymal Stem Cells From Cml Patients Regulate Myeloid Derived Suppressor Cells Activation.**20th Congress EHA (European Hematology Association). Vienna, Austria, 11-14 June (2015) (**Haematologica/ the hematology journal 100(s1)P220**)
92. Romano A, Simenon V, La Cava P, Parrinello N, La Fauci A, Vetro C, Tibullo D, Giallongo C, Cavalli M, Chiarenza A, Conticello C, Musto P, Di Raimondo F. (2015). **Overexpression Of Arginase And Prok-2 Makes Neutrophils Of Multiple Myeloma Dysfunctional And Immunosuppressive.**20th Congress EHA (European Hematology Association). Vienna, Austria, 11-14 June (2015) (**Haematologica/ the hematology journal 100(s1)S480**)
93. Giallongo C,Parrinello N, Tibullo D, La Cava P, Conticello C, Cavalli M, Chiarenza A, Palumbo G.A, Romano A, Di Raimondo F. (2015). **Granulocyte-Like Myeloid Derived Suppressor Cells (GMDSC) Are Increased In Multiple Myeloma Due To Immunological Dysregulation Of Mesenchymal Stem Cells (MSC).**20th Congress EHA (European Hematology Association). Vienna, Austria, 11-14 June (2015) (**Haematologica/ the hematology journal 100(s1)E1243**)
94. Tibullo D, Di Rosa M, Giallongo C, La Cava P, Parrinello N, Romano A, Conticello C, Puglisi F, Sapienza G, Palumbo G.A, Di Raimondo F. (2015). **Bortezomib Inhibits Osteoclastogenesis And Modulate Chit1 And Ykl40 Expression.** 20th Congress EHA (European Hematology Association). Vienna, Austria, 11-14 June (2015) (**Haematologica/ the hematology journal 100(s1)PB1846**)
95. Romano A, Parrinello N.L, Consoli M.L, Forte S, Conticello Corso A,

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97. Giallongo C, Parrinello N.L., Tibullo D, La Cava P, Romano, Chiarenza A, Stagno F, Vigneri P, Palumbo G.A and Di Raimondo F and Bellofiore C.(2015). **Monocytic Myeloid Derived Suppressor Cells (M-MDSC) As Prognostic Factor in Chronic Myeloid Leukemia Patients Treated with Dasatinib**. 57 th Annual Meeting ASH (American Society of Hematology), Orlando, 5-8 December (2015).(Blood/ journal of the American society of hematology, volume **126:2767**)
98. Romano A, Consoli M.L, Parisi M, Cavalli M, Parrinello N.L., Conticello C and Di Raimondo F. (2015). **Plasmocytosis and Immunoparesis but Not Neutrophil to Lymphocyte Ratio Can Predict Time to Treatment in Smoldering Myeloma**. 57 th Annual Meeting ASH (American Society of Hematology), Orlando, 5-8 December (2015).(Blood/ journal of the American society of hematology, volume **126:5358**)
99. Giallongo C, Tibullo D, Parrinello N.L., La Cava P, Camiolo G, D'Amante G, Caporarello N, Conticello C, Anfuso C.D, Romano A, Di Raimondo F. (2016). **Mesenchymal Stem Cells (MSC) Promotes Tumor Microenvironment Transformation Driving Granulocyte-Like Myeloid Derived Suppressor Cells (G-MDSC) Activation In Smoldering And Multiple Myeloma Patients**. 21th Congress EHA (European Hematology Association). Copenhagen, Denmark 9-12 June (2016) (Haematologica/ the hematology journal **101(s1)P640**)
100. Napolitano M, Santoro R.C, Sottilotta G, Parrinello N.L., Rizzo G, Triolo A, Lombardo R, Di Francesco E, Gagliano E, Daniele F, Raso S, Tarantino G, Siragusa S, Di Raimondo F, Giuffrida G (2016). **Incidence Of Peripheral Circulating Cells With Paroxysmalnocturnal Hemoglobinuria Phenotype A First Episode Of Cerebral Sinus Vein Thrombosis: Results From A Prospective Multicenter Study**. 21th Congress EHA (European Hematology Association). Copenhagen, Denmark 9-12 June (2016) (Haematologica/ the hematology journal **101(s1)P778**)
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Copenhagen, Denmark 9-12 June (2016) (**Haematologica/ the hematology journal 101(s1)E1084**)

102. Romano A, Simeon V, **Parrinello N.L.**, Giallongo C, La Cava P, Conticello C, Consoli M.L., Tibullo D, Musto P, Di Raimondo F. (2016). **In Multiple Myeloma There Are Two Subsets Of Immunosuppressive Polymorphonuclear Neutrophils With Increased Levels Of Arginase.** 21th Congress EHA (European Hematology Association). Copenhagen, Denmark 9-12 June (2016) (**Haematologica/ the hematology journal 101(s1)E1233**)
103. Tibullo D, Barbagallo I, Giallongo C, Camiolo G, D'Amante G, La Cava P, **Parrinello N.L.**, Romano A, Conticello C, Saccone S, Brundo M.V, Vanella L, Li Volti G, Di Raimondo F. (2016). **Heme Oxygenase 1 (HO-1) Protects Myeloma Cells Against Bortezomib Through Nuclear Translocation And Regulation Of Er Stress And Autophagy Proteins.** 21th Congress EHA (European Hematology Association). Copenhagen, Denmark 9-12 June (2016) (**Haematologica/ the hematology journal 101(s1)E1248**)
104. Romano A, **Parrinello N.L.**, Tibullo D, Vetro C, Giallongo C, La Cava P, Chiarenza A, Motta G, Simenon V, Caruso L, Cosentino S, Ippolito M, Consoli U, Musto P, Di Raimondo F. (2016). **Arginase 1 Is a Marker of Myeloid-Mediated Immunosuppression with Prognostic Meaning in Classic Hodgkin Lymphoma.** 21th Congress EHA (European Hematology Association). Copenhagen, Denmark 9-12 June (2016) (**Haematologica/ the hematology journal 101(s1)E1384**)
105. **Parrinello N.L.**, Giallongo C, Tibullo D, Rizzo G, Simeon V, La Cava P, Parisi M, Consoli M.L, Conticello C, Triolo A.M, Musto P, Di Raimondo F, Romano A. (2016). **In Multiple Myeloma There Are Two Subsets Of Immunosuppressive Polymorphonuclear Neutrophils With Increased Levels Of Arginase.** XIV° Congress of the Italian Society of Experimental Hematology, Rimini, Italy, 19-21 october (2016). (**Haematologica/ the hematology journal; volume 101(s3), C010**).
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109. Tirrò E, Romano C,Pennisi M.S, **Parrinello L.**, Manzella L,Stagno F, Di Raimondo F, Vigneri P.(2016).(2016). **Hdac4 Silencing Sensitizes Resistant Cml Cells To Imatinib Mesylate Treatment.** XIV<sup>o</sup> Congress of the Italian Society of Experimental Hematology, Rimini, Italy,19-21 october (2016). (**Haematologica/ the hematology journal; volume 101(s3), P017**).
110. Giallongo C, **Parrinello N.L.**, Tibullo D, La Cava P, Romano A, Camiolo C, Stagno F, Vigneri P, Di Raimondo F. (2016). **Monocytic Myeloid Derived Suppressor Cells (M-MDSC) As Prognostic Factor In Patients With Chronic Myeloid Leukemia.** XIV<sup>o</sup> Congress of the Italian Society of Experimental Hematology, Rimini, Italy,19-21 october (2016). (**Haematologica/ the hematology journal; volume 101(s3), P021**).
111. Romano A,**Parrinello N.L.**, Tibullo D, Vetro C,Giallongo C,La Cava P,Chiarenza A, Motta G, Simenon V, Caruso L,Cosentino S, Ippolito M, Consoli U, Musto P,Di Raimondo F.(2016). **Arginase 1 Is a Marker of Myeloid-Mediated Immunosuppression with Prognostic Meaning in Classic Hodgkin Lymphoma.**58 th Annual Meeting ASH (American Society of Hematology), San Diego, 3-6 December (2016).(**Blood/ journal of the American society of hematology, volume 128:1770**)
112. Giallongo C, Tibullo D, **Parrinello N.L.**, La Cava P, Camiolo G, Caporarello N, Anfuso C.D, Puglisi F, Conticello C, Brundo M.V, Romano A, Vetro C, La Cava P, Chiarenza A, Villari L, Tripodo C, Motta G, Caruso L, and Di Raimondo F.(2016). **Mesenchymal Stem Cells (MSC) from Patients with Multiple Myeloma Promote Myeloid Cells to Become Granulocytic-Myeloid-Derived Suppressor Cells (G-MDSC) with Immunosuppressive, Bone Resorption and Pro-Angiogenic Activity.** 58 th Annual Meeting ASH (American Society of Hematology), San Diego, 3-6 December (2016).(**Blood/ journal of the American society of hematology, volume 128:4458**)
113. Romano A, Manteiga J, Simeon V, **Parrinello N.L.**, Giallongo C, La Cava P, Conticello C, Tibullo D, Fontana F, Ciceri F, Cremasco F,Fabbri M, Musto P, Cenci S, and Di Raimondo F.(2016). **Immune Suppression By High-Density Neutrophils Predicts Short Progression-Free Survival in Multiple Myeloma.** 58 th Annual Meeting ASH (American Society of Hematology), San Diego, 3-6 December (2016).(**Blood/ journal of the American society of hematology, volume 128:4459**)
114. Romano A, Giallongo C, **Parrinello N.L.**, Tibullo D, Puglisi F, Camiolo G, La Cava P, Parisi M, Consoli M.L, Conticello C, Di Raimondo F and Vanella L. (2016). **Contribution of High-Density Neutrophils to Multiple Myeloma Microenvironment Dysregulation.** 58 th Annual Meeting ASH (American Society of Hematology), San Diego, 3-6 December (2016).(**Blood/ journal of the American society of hematology, volume**

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115. Chiarenza A, **Parrinello N.L.**, Triolo A.M, Rizzo G, Romano A, Maugeri C, Caruso L.A, Motta G, Figuera A, Pelle Curto A, Leotta V, Di Giorgio M.A, La Cava P, Giallongo C, Tibullo D, and Di Raimondo F. (2016). **The Combined Evaluation of Neutrophil, T-Lymphocyte and Monocyte Counts Provides New Prognostic Information in CLL Patients.** 58 th Annual Meeting ASH (American Society of Hematology), San Diego, 3-6 December (2016).(**Blood/ journal of the American society of hematology, volume 128:5565**)
116. Giallongo C, Tibullo D, **Parrinello N.L.**, La Cava P, Camiolo G, Tummino M, Caporarello N, Anfuso C, Conticello C, Romano A, Di Raimondo F. (2017). **Tumor Microenvironment Transformation From Mds To Myeloma Is Associated With Pro-Tumoral Activation Of Mesenchymal Stromal Cells (MSC).** 22th Congress EHA (European Hematology Association), Madrid, Spain 22-25 June (2017) (**Haematologica/ the hematology journal 102(s2)E1214**)
117. Romano A, Garcia Manteiga J.M, Simeon V, **Parrinello L.**, Canziani L, Milan E, Ghizzinardi E, Tibullo D, Giallongo C, La Cava P, Cremasco F, Conticello C, Musto P, Ciceri F, Di Raimondo F, Cenci S. (2017). **Environmental Control Of Plasma Cell Fitness In Multiple Myeloma: Malignant Co-Optation Of Arginine As Novel Immuno-Metabolic Checkpoint.** 22th Congress EHA (European Hematology Association), Madrid, Spain 22-25 June (2017) (**Haematologica/ the hematology journal 102(s2)E1232**)

**Corsi di  
Formazione, di  
Aggiornamento,  
Congressi,  
Convegni**

1. “Duet Discussion Update Evaluation of CMLs Treatment”, Catania, 17 Settembre (2005);
2. Corso di Aggiornamento “ Le infezioni nel paziente immunocompromesso: aspetti clinici e di laboratorio”, Viagrande 12 novembre (2005);
3. “I Linfomi Non Hodgkin: Conoscere Di Più Per Curare Meglio”, Catania, 26 Novembre (2005);
4. “4° Convegno di Genetica Medica”, Catania, 25 Marzo (2006);
5. “Lezioni Interattive di Ematologia- Incontri con l’Esperto”, Catania, 2 Giugno (2006);
6. “Lezioni Interattive di Ematologia- Incontri con l’Esperto”, Catania, 28 Giugno (2006);
7. Corso di Formazione “Il laboratorio Integrato di Ematologia: Qualità, Sicurezza, Professionalità, Risparmio e Accreditamento Professionale”, Monreale, 29 Giugno (2006);

8. "Training teorico/pratico su strumentazione Cytomics FC 500 Flowcytometry System Coulter", Catania, 10-13 Ottobre (2006);
9. "Sicilian International Workshop on Chronic Myeloid Leucemia Year 2006", Catania, 24-25 November (2006);
10. "Corso Utilizzatori del sistema FC 500 CXP SW", Milano, 8-11 Maggio (2007);
11. Corso di Formazione "L'assistenza al paziente oncoematologico dentro e fuori l'ospedale. Sanitari, caregivers ed istituzioni", Catania, 22 Giugno (2007);
12. Corso di Aggiornamento "Nuove acquisizioni in campo epatologico" Viagrande, 19 Ottobre (2007);
13. "Progetto Formativo per Ematologi e Oncologi" 10 Novembre (2007);
14. "Lezioni Interattive di Ematologia- Incontri con l'Esperto:Ruolo della biopsia osteo-midollare nella diagnostica dei linfomi", Catania, 21 Novembre (2007);
15. "Lezioni Interattive di Ematologia- Incontri con l'Esperto: Nuovi orientamenti nel trattamento dei linfomi non Hodgkin", Catania, 28 Novembre (2007);
16. "X Congresso Nazionale Società Italiana di Ematologia Sperimentale (SIES)", Bari, 24-26 Settembre (2008);
17. "Lezioni Interattive di Ematologia- Incontri con l'Esperto:La malattia minima residua nelle patologie linfoproliferative", Catania, 01 Ottobre (2008);
18. "Lezioni Interattive di Ematologia- Incontri con l'Esperto: Le malattie linfoproliferative LGL", Catania, 16 Ottobre (2008);
19. "Corso Nazionale Di Aggiornamento in Ematologia Clinica",Catania 6-7 Novembre (2008);
20. Corso "Dal bambino all'adulto:la varieta' fenotipica all'esordio e la gestione della Malattia di Gaucher",Catania, 27 Novembre (2008);
21. "Lezioni Interattive di Ematologia- Incontri con l'Esperto: Policitemia", Catania, 22 Aprile (2009);
22. "6° Congresso Nazionale della Società Italiana di Citometria Clinica e Sperimentale (S.I.Ci.C.S)",Catania, 6-8 Maggio (2009);
23. "Lezioni Interattive di Ematologia- Incontri con l'Esperto:Il linfoma follicolare nel paziente anziano", Catania, 20 Maggio (2009);



24. “La gestione dell’Emoglobinuria Parossistica Notturna: ultimi sviluppi nella diagnosi e nel trattamento”Catania, 25 Maggio (2009);
25. “Lezioni Interattive di Ematologia- Incontri con l’Esperto: Nuove terapie nella leucemia linfatica cronica”, Catania, 17 Giugno (2009);
26. “Incontro annuale delle U.O di Ematologia e centri trapianto dell’Italia meridionale e insulare”, Matera,10-12 Settembre (2009);
27. Corso “Nuove frontiere della terapia in ematologia”,Viagrande,18-19 Settembre (2009);
28. Corso di aggiornamento “UPDATE Ultimi Progressi Delle Metodiche BioMolecolari:Applicazioni Teorico-Pratiche in Onco-Ematologia” Catania 22 Maggio, Reggio Calabria 19 Giugno, Palermo 16 Ottobre (2009);
29. Meeting “Alemtuzumab: evoluzione nella LLC dalla terapia di salvataggio alla 1° linea”, Catania 12-13 Marzo (2010);
30. Corso “Focus su Anemie: dal caso clinico al trattamento”, Gela 16 Aprile (2010);
31. “Lezioni Interattive di Ematologia- Incontri con l’Esperto: Leucemia Linfatica Cronica”, Catania 21 Aprile (2010);
32. “7° Congresso Nazionale della Società Italiana di Citometria Clinica e Sperimentale (S.I.Ci.C.S)” ,Rimini, 23-24 Settembre (2010);
33. “XI Congresso Nazionale Società Italiana di Ematologia Sperimentale (SIES)” , Torino, 6-8 Ottobre (2010);
34. “Riunione Annuale dei Centri di Ematologia Meridionale e Insulare”, Castellaneta Marina (Ta), 28-29 Ottobre (2010);
35. Secondo Workshop AIEOP....in Lab, Catania 19-20 Maggio (2011);
36. Seminari di Ematologia, Catania, 20 settembre, 11 ottobre (2011);
37. XXIX Conferenza Nazionale di Citometria, Salerno,5-8 Ottobre (2011);
38. 1° Congresso Nazionale della Medicina di Laboratorio “La citofluorimetria nel percorso decisionale clinico della medicina di laboratorio”, Parma 15 Novembre (2011);
39. “ La gestione delle infezioni fungine in ematologia:approccio multidisciplinare”,Catania 24 febbraio (2012);
40. “Donazione cellule staminali da cordone ombelicale”, Catania 02 marzo (2012);
41. “La citometria policromatica in ematologia ed immunologia clinica”,

- Napoli 03 maggio (2012);
42. I<sup>a</sup> giornata di citometria nella diagnostica onco-ematologica, Viagrande 12 maggio (2012);
  43. Workshop "Marie Curie evaluation process: how to write a successful proposal", Catania 05 Giugno (2012);
  44. Corso "Changing haematology knowledge", Catania 22 Giugno (2012);
  45. Scuola Nazionale di Citometria XX Conferenza Nazionale di Citometria, Corso Teorico-Pratico "Ematologia Clinica e Sperimentale", Urbino 25-27 Settembre (2012);
  46. XX Conferenza Nazionale di Citometria "Nuove Metodologie Analitiche in Ematologia, Immunologia, Oncologia", Urbino 27-29 Settembre (2012);
  47. XII Congresso Nazionale SIES, Roma 17-19 Ottobre (2012);
  48. Quarta Classe di Oncoematologia in Citometria a Flusso, Roma 18 Aprile (2013);
  49. Seminario "Staminali e Neuroni per le malattie neurologiche: tra faticose conquiste e fantasiose cure" Profssa Cattaneo, Catania 04 Giugno (2013);
  50. Lezioni Interattive di Ematologia incontri con l'Esperto: Linfomi non Hodgkin a grandi cellule, attuali strategie terapeutiche, Catania 06 Giugno (2013);
  51. Ragionando di Leucemia Mieloide Cronica: Ricercatori Italiani a Confronto, Catania 11 Luglio (2013);
  52. Workshop Ph.D Days: Valutare la ricerca: introduzione alle metodologie ed esperienze; Catania, 22 Gennaio (2014);
  53. Workshop Ph.D Days: Alla ricerca dell'eccellenza, valutare il Prodotto o l'Impatto? Le metodologie di valutazione della ricerca in ambito nazionale ed internazionale; Catania, 29 Gennaio (2014);
  54. Workshop Ph.D Days: Dal P.D alla Startup; Catania, 19 Febbraio (2014);
  55. Lezioni Interattive di Ematologia incontri con l'Esperto (2014); Strategie Terapeutiche nei Linfomi follicolari Catania 09 Luglio (2014);
  56. XIII Congresso Nazionale SIES, Rimini 15-17 Ottobre (2014);
  57. II Edizione Ematologia: Dal Laboratorio alla Clinica e Dalla Clinica al Laboratorio, Catania 24 Gennaio (2015);
  58. Evento formativo: Il Trapianto Emopoietico: Problemathe Cliniche e Istituzionali, Viagrande 09 Ottobre (2015);
  59. Final Contest del progetto UNDER40 in Hematology, in qualità di

- candidato, Verona 12-13 Novembre (2015);
60. 57th ASH Annual Meeting and Exposition, Orlando, Florida, 5-8 Dicembre (2015);
  61. Clonoteca EPN: il nuovo archivio citometrico nazionale per la raccolta dati EPN, Roma 27 Gennaio (2016);
  62. Incontro: Science in the City: Flow Cytometry Symposia", Roma 18 Febbraio (2016);
  63. Meeting SIES-Discutiamone Insieme, Firenze 21 Aprile (2016);
  64. Scuola Nazionale di Citometria GIC, Corsi Residenziali di Formazione e Aggiornamento: La Citometria dell'Emoglobinuria Parossistica Notturna, Prima Giornata, Napoli 04 Maggio (2016);
  65. Scuola Nazionale di Citometria GIC, Corsi Residenziali di Formazione e Aggiornamento: La Citometria dell'Emoglobinuria Parossistica Notturna, Seconda Giornata, Napoli 29 Giugno (2016);
  66. Lezioni Interattive di Ematologia incontri con l'Esperto 2016: Nuovi approcci nel trattamento della Leucemia Linfatica Cronica, Catania 28 Settembre (2016);
  67. "Novel Insights in Biology Myeloma: The Seed and Soil", Catania 17-18 Febbraio (2017);
  68. Seconda Riunione Nazionale ISCCA, in qualità di relatore, Bologna 9-10 Maggio (2017);

in fede

Nunziatina Laura Parrinello