

Curriculum Vitae

INFORMAZIONI PERSONALI

Nome PAOLA
Cognome DI CARLO
Recapiti Facoltà Di Medicina e Chirurgia, Dipartimento per La promozione della Salute e Materno Infantile, U.O.C. Di Malattie infettive; 0916554057
Telefono 340-3567287
E-mail paola.dicarlo@unipa.it
paoladicarlo19@gmail.com

FORMAZIONE TITOLI

1.2 Education: courses and degrees

1990/1991, Degree in Medicine and Surgery, University of Palermo

1994/1995, Specialization in Infectious Diseases, University of Palermo

2007/2008, Specialization in Paediatrics, University of Palermo

Docent-level competence

Assistant Professor - please see "Experience of research education, including supervision of graduate students" section.

1.3 Current position

Since 01/09/2000, full-time Medical Researcher, SSD MED 17,

Paolo Giaccone University Hospital, Infectious Diseases Department, Viale del Vespro 147, 90157 Palermo, Italy.

1.4 Previous positions including post doc appointments. In addition, specify the time periods deducted from active research time

- 01/05/2005 to 22/02/2007, Neonatal Intensive Care Unit and Paediatrics, Director Prof. Giovanni Corsello. Duties included management of regular and day hospital admissions; Infectious Diseases clinic for HIV and Tuberculosis infection; Consultant in other departments; Appointed "Person in charge of respiratory tract infections"; Management of Tuberculosis infection/disease in the clinic and day hospital; Contact person for epidemiological studies on the prevalence of hospital-acquired infections; Contact person for the project "Evaluation of factors related to delays in accessing healthcare, diagnosis and treatment of pulmonary tuberculosis (PTB) in vulnerable populations. Evaluation of the impact of antituberculosis drug resistance/multiresistance on local epidemiology and prevalence."
- 28/02/2012, Infectious Diseases Clinical Physician, Department of Paediatric Infectious Diseases, G. Di Cristina – ARNAS Hospital, Palermo.
- Member of the board of the Department of Sciences for the Promotion of Health and Mother-Child Care since 2011.
- From 01/09/2000 to 31/08/2003, Medical Researcher MED/17, Institute for Infectious Pathology and Virology, Scientific Disciplinary Sector "Infectious Diseases", Di Cristina – ARNAS Hospital, Palermo.
- From 20/07/1998 to 31/08/2000, Infectious Diseases Clinical Physician in the Infectious Diseases Department, headed by Dr. G. Foti, "Bianchi-Melacrino-Morelli" Hospital, via Vallone Petrarra 1, Reggio Calabria, 89100. Professional assignment: "Infectious Pathologies of the Central and Peripheral Nervous System: Clinical medicine, diagnosis and therapy", Infectious Diseases Department, "Bianchi Melacrino Morelli" Hospital, Reggio Calabria.
- October 1996 to June 1998, Trainee Doctor, General Medicine course.
- November 1995 to 30 March 1996, Medical Assistant, School of Specialization in Paediatrics, "Aiuto Materno" Paediatric Hospital, directed by Prof.re A. Albergiani. (In November 1995 I passed admission exam to School of Specialization in Paediatrics, but could not attend school from April 1996 as I already had a specialisation in Infectious Diseases (Ministerial ruling n° 265 of February 1996).
- May 1996 to September 1996, Out of Hours Doctor, Local Health Centre 06, Palermo.
- October 1991 to October 1995, Trainee Assistant, School of Specialization in Infectious Diseases, Paediatric Infectious Diseases Department, Institute of Infectious Pathology and Virology, Scientific Sector 'Infectious Diseases', Ospedale Dei Bambini, ARNAS, P.zza Montalto, 8, 90127 Palermo.

ATTIVITA' DIDATTICA

- Contract Professor at the School of Specialization in Infectious Diseases, Palermo University, from 2001 to present;
- Contract Professor, Infectious Diseases, Palermo University Outpost in Caltanissetta, from 2004 to present;
- Contract Professor, Infectious Diseases, Environment and Workplace Preventive Techniques Degree Programme, from 2005 to present;
- Contract Professor, Infectious Diseases, Health Care degree Programme, from 2014;
- Contract Professor, Infectious Diseases, Obstetrics Degree Programme, 2005 – 2008;
- Contract Professor, Infectious Diseases, Nursing Degree Programme, Palermo University Outpost in Trapani, 2009;
- Lecturer, School of Specialization in Respiratory Diseases, Palermo University, from 2009 to present;
- Lecturer, School of Specialization in Sport Medicine, Palermo University, from 2009 to present;
- Lecturer, School of Specialization in Microbiology, Palermo University, from 2010 to present;
- Lecturer, School of Specialization in Oncology, University of Palermo, from 2013
- Lecturer, Master in Assistenza Infermieristica Avanzata al Paziente Critico AA 2011/2012; 2013-2014

- Dottorati: Ateneo proponente: **Università degli Studi di PALERMO**, Titolo: "**FISIOPATOLOGIA DELLE MALATTIE DEL FEGATO**", Anno accademico di inizio: **2010** - Ciclo: **XXIV** - Durata: **3** anni; Anno accademico di inizio: **2011** - Ciclo: **XXV** - Durata: **3** anni, Anno accademico di inizio: **2012** - Ciclo: **XXVI** - Durata: **3** anni
Dipartimento Universitario DiBiMed Sezione Anestesia Analgesia Rianimazione e Terapia Intensiva
Tel. +39.091.6555447
Master Biennale di II Livello in Cure Palliative A.A.2015/2016
Master Biennale di I Livello in Cure Palliative A.A.2015/2016
Master Annuale di I Livello in Assistenza infermieristica avanzata al paziente critico A.A.2016/2017

RICERCHE FINANZIATE

Progetto Durata Ruolo Ricoperto

- 1997, *Affidatario Progetto per la valutazione dell'impatto farmaco economico dell'epidemia di Morbillo nel periodo 1996-1997 a Palerm, da parte della ditta SmithKline Beecham, S.p.A*
- anno 2001 IZS SI 06/01/RC: Studio e Validazione di Metodi Analitici tradizionali e innovativi per l'isolamento in Alimenti di Origine Animale di *Enterococcus spp* resistenti ai Glicopeptidi (GRE). Confronto fenotipico e genotipico con stipti isolati da Fonte Umana, responsabile unità
- anno 2004 *Titolare progetto ORPA045473: Studio di sorveglianza sulla circolazione di stipti di Pseudomonas aeruginosa produttori di metallo beta lattamasi (MBL) finanziato dalla Università degli Studi di Palermo*
- Responsabile Scientifico Progetto dal titolo "Le malattie Sessualmente trasmesse" finanziato dal Comune di Palermo Assessorato alla Salute e Servizi alla Persona nell'anno 2004
- PRIN 2005 067184001. Tipizzazione molecolare di stipti di *Listeria monocytogenes* isolati in Italia da fonte umana, alimentare ed animale. Valutazione e confronto di tecniche di tipizzazione, elaborazione ed applicazione di protocolli standardizzati: Pulsed Field Gel Electrophoresis (PFGE) e tecniche basate sull'amplificazione genica; Ruolo partecipante
- 2005, *Titolare del progetto ORPA058205: Epidemiologia e caratterizzazione molecolare delle ESBL prodotte da enterobatteri isolati da pazienti ospedalizzati finanziato da Università degli Studi di Palermo*
- 2006, *Titolare del progetto ORPA0642NF: Epidemiologia e caratterizzazione molecolare delle ESBL prodotte da enterobatteri isolati da pazienti ospedalizzati finanziato da Università degli Studi di Palermo*
- 2007, *Titolare del progetto ORPA073BRB: Management delle infezioni da gram positivi resistenti in pazienti ospedalizzati e differenziazione con strumenti di epidemiologia molecolare tra patogeni acquisiti in comunità e microrganismi ospedalieri, Titolare, finanziato da Università degli Studi di Palermo*
- 2010, *Responsabile, punteggio finale di 10/36 (4 score migliore-36 score peggiore) non finanziato Ricerca finalizzata, SURVEILLANCE OF MULTI-DRUG RESISTANT (MDR) MICRO-ORGANISM AND FUNGICOLONIZATION AND INFECTIONS ACQUIRED IN A NOSOCOMIAL SETTING, WITH PARTICULAR REFERENCE TO SURGICAL INFECTIONS IN CANCER PATIENTS AND EMERGENCY SURGERY PATIENTS, Project Code:RF-2010-2309791*
- *Partecipante al gruppo di lavoro GISIG MRD 2011-2012*

INCARICHI / CONSULENZE

principali incarichi o mansioni svolte Dal 20/07/1998 al 31/08/2000 ha lavorato in qualità di dirigente medico a tempo indeterminato presso U.O.C. di Malattie Infettive, responsabile Dott. G. Foti, presso Azienda Ospedaliera "Bianchi-Melacrino-Morelli", via Vallone Petrarra,1, Reggio Calabria, 89100

Ricoveri in regime di ricovero ordinario e di Day Hospital; settimanalmente ambulatorio di Malattie Infettive per il management di infezioni HBV/HCV correlate e follow-up dei pazienti con infezioni del SNC e Periferico
Incarico Professionale " Patologie Infettive del Sistema Nervoso Centrale e Periferico: Clinica, Diagnosi e terapia" presso U.O.C. di Malattie Infettive P.O. "Bianchi Melacrino Morelli" di RC

Ricercatore Medico Presso "Istituto di Patologia Infettive e Virologia Settore Scientifico Disciplinare" Malattie Infettive" con sede presso Ospedale Dei Bambini, ARNAS, P.zza Montalto, 8, 90127 Palermo

Positions as Associate Professor of Infectious Disease

1.2 Education: courses and degrees

1990/1991, Degree in Medicine and Surgery, University of Palermo
1994/1995, Specialization in Infectious Diseases, University of Palermo
2007/2008, Specialization in Paediatrics, University of Palermo
Docent-level competence

Assistant Professor - please see "Experience of research education, including supervision of graduate students" section.

1.3 Current position

Since 01/09/2000, full-time Medical Researcher, SSD MED 17,
Paolo Giaccone University Hospital, Infectious Diseases Department, Viale del Vespro 147, 90157 Palermo, Italy.
Management ricoveri in regime ordinario e di Day Hospital;

ambulatorio di Malattie Infettive per il management dell'infezione da HIV e Tubercolosi; Consultant presso altre U.O.C.
Incarico professione "Responsabile Delle Infezioni dell'Apparato Respiratorio

ASSOCIAZIONI SCIENTIFICHE

5. Current scientific collaborations

- Scientific Advisor for Life Science Events, London
- Collaboration with the ESCMID Study Group for Mycobacterial Infections – ESGMYC
- Collaboration with Professor Sergi Consolato, Alberta, Canada: focus on the bile microbiome having published on it.
Bactibilia in women affected with diseases of the biliary tract and pancreas. A STROBE guidelines-adherent cross-sectional study in Southern Italy. Serra N, Di Carlo P, Gulotta G, d'Arpa F, Giammanco A, Colomba C, Melfa G, Fasciana T, Sergi C. *J Med Microbiol*. 2018 Aug;67(8):1090-1095. doi: 10.1099/jmm.0.000787. Epub 2018 Jul 5.
Bactibilia in diseases of the biliary tract and pancreatic gland in patients older than 80 years: a STROBE-retrospective cohort study in a teaching hospital in Italy. Di Carlo P, Serra N, Gulotta G, Giammanco A, Colomba C, Melfa G, Fasciana T, Sergi C. *Eur J Clin Microbiol Infect Dis*. 2018 May;37(5):953-958. doi: 10.1007/s10096-018-3213-y. Epub 2018 Feb 27. PMID: 29975626
- Intra-abdominal *Candida* spp infection in acute abdomen in a quality assurance (QA)-certified academic setting. Rodolico V, Di Carlo P, Gulotta G, D'Arpa F, Salamone G, Cocorullo G, Agrusa A, Giammanco A, Sergi C. *J Clin Pathol*. 2017 Jul;70(7):579-583. doi: 10.1136/jclinpath-2016-203936. Epub 2016 Dec 9.
Journal: *Infection and Drug Resistance*. Author(s): Paola Di Carlo, Nicola Serra, Francesco D'Arpa, Antonino Agrusa, Gaspare Gulotta, Teresa Fasciana, Vito Rodolico, Anna Giammanco and Consolato Sergi Article title: The microbiota of the bilio-pancreatic system: a cohort, STROBE-compliant study Submission no: 200378, Paper citation: Di Carlo P, Serra N, D'Arpa F, Agrusa A, Gulotta G, Fasciana T, Rodolico V, Giammanco A, Sergi C. The microbiota of the bilio-pancreatic system: a cohort, STROBE-compliant study. *Infection and Drug Resistance*. In Press 2019
- 8. Evaluation of others' work
- 01/2009 to 12/2012: Member of the Editorial board of *Turkiye Klinikleri Journal of Medical Sciences, Pediatric Infectious Disease Section*;
- 01/2009 to 12/2011: Advisor on the Board of the *Journal of Pediatric Infectious Disease*;
- 01/2012 to present: Member of the Editorial Board of *Case Reports in Infectious Diseases*, Hindawi Publishing Corporation;
- 03/2013 to 12/2014; Academic year 2016: member of the Editorial Board of *Biomed Research International Infectious Disease Section*, Hindawi Publishing – Corporation.
- Canadian *Journal of Infectious Diseases and Medical Microbiology* Guest Editor activity *Helicobacter pylori: Infection and New Perspective for the Treatment* 2019

PUBBLICAZIONE

1. Colomba C, Saporito L, Di Carlo P, Tolomeo M, Cervo A, Firenze A, Trizzino M, Cascio A Direct-acting antivirals and visceral leishmaniasis: a case report. *BMC Infect Dis*. 2019 Apr 18;19(1):328. doi: 10.1186/s12879-019-3947-x.
2. Sergi C, Serra N, Colomba C, Ayanlade A, Di Carlo P. Tuberculosis evolution and climate change: How much work is ahead? *Acta Trop*. 2018 Nov 16;190:157-158. doi:
3. , Trizzino M, Cascio A. Direct-acting antivirals and visceral leishmaniasis: a case report. *BMC Infect Dis*. 2019 Apr 18;19(1):328. doi: 10.1186/s12879-019-3947-x.
4. *Rickettsia typhi* and Haemophagocytic Syndrome C Iaria, C Colomba, Di Carlo P, F Scarlata, M Tolomeo, A Cascio *The American journal of tropical medicine and hygiene* 97 (5), 1632- 1632 2017 Murine Typhus and Hemophagocytic Syndrome.
5. Intestinal Involvement in Kawasaki Disease. Colomba C, La Placa S, Saporito L, Corsello G, Ciccia F, Medaglia A, Romanin B, Serra N, Di Carlo P, Cascio A. *J Pediatr*. 2018 Nov;202:186-193. doi: 10.1016/j.jpeds.2018.06.034. Epub 2018 Jul 17.
6. Iaria C, Colomba C, Di Carlo P, Scarlata F, Cascio A. *J Pediatr Hematol Oncol*. 2018 Apr 20.
7. La Manna MP, Orlando V, Li Donni P, Sireci G, Di Carlo P, Cascio A, Dieli F, Caccamo N. Identification of plasma biomarkers for discrimination between tuberculosis infection/disease and pulmonary non tuberculosis disease. *PLoS One*. 2018 Mar 15;13(3):e0192664.
8. Di Carlo P, Serra N, Gulotta G, Giammanco A, Colomba C, Melfa G, Fasciana T, Sergi C.
9. Bactibilia in diseases of the biliary tract and pancreatic gland in patients older than 80 years: a STROBE-retrospective cohort study in a teaching hospital in Italy. *Eur J Clin Microbiol Infect Dis*. 2018 May;37(5):953-958.
10. La Manna MP, Orlando V, Dieli F, Di Carlo P, Cascio A, Cuzzi G, Palmieri F, Goletti D, Caccamo N. Quantitative and qualitative profiles of circulating monocytes may help identifying tuberculosis infection and disease stages *PLoS One*. 2017 Feb 16;12(2):e0171358. doi: 10.1371/journal.pone.0171358. eCollection 2017.
11. Iaria C, Colomba C, Di Carlo P, Scarlata F, Tolomeo M, Cascio A. *Rickettsia typhi* and Haemophagocytic Syndrome. *Am J Trop Med Hyg*. 2017 Nov;97(5):1632. doi: 10.4269/ajtmh.17-0606.

12. Guli C., Basile L., Graziano F., Di Carlo P., Iacopino D., Cascio A., Maugeri R. (2016) Successful management of a cerebral abscess secondary to chronic cholesteatoma caused by *Prevotella melaninogenica* and *Peptococcus anaerobius* – A case report and literature review. In *INTERDISCIPLINARY NEUROSURGERY* -ISSN: 2214-7519 vol. 6DOI:10.1016/j.inat.2016.07.005. pp.71-74.
13. Intra-abdominal *Candida* spp infection in acute abdomen in a quality assurance (QA)- certified academic setting. Rodolico V, Di Carlo P, Gulotta G, D'Arpa F, Salamone G, Cocorullo G, Agrusa A, Giammanco A, Sergi C. *J Clin Pathol*. 2016 Dec 9. pii: jclinpath-2016-203936.doi: 10.1136/jclinpath-2016-203936.
14. Guli C., Iacopino D., Di Carlo P., Colomba C., Cascio A., Giammanco A. et al. (2017). Vancomycin resistant *Enterococcus faecium* (VRE) vertebral osteomyelitis after uneventful spinal surgery: A case report and literature review. *INTERDISCIPLINARY NEUROSURGERY*, 7, 12-16.
15. Fourth case of louse-borne relapsing fever in Young Migrant, Sicily, Italy, December 2015. Mini Review Article. Colomba C, Scarlata F, Di Carlo P, Giammanco A, Fasciana T, Trizzino M, Cascio A. *Public Health*. 2016 Oct; 139:22-26.doi: 10.1016/j.puhe.2016.05.019. Review.
16. Behavioral and clinical characteristics of people receiving medical care for HIV infection in an outpatient facility in Sicily, Italy. Di Carlo P, Guadagnino G, Immordino P, Mazzola G, Colletti P, Alongi I, Adamoli L, Vitale F, Casuccio A. *Patient Preference Adherence*. 2016 May 25; 10: 919-27.doi: 10.2147/PPA.S90456.
17. A Case of Epididymo-orchitis after intravesical bacille Calmette-Guérin therapy for superficial bladder carcinoma in a patient with latent tuberculosis infection. Colomba C, Di Carlo P, Guadagnino G, Siracusa L, Trizzino M, Gioè C, Cascio A. *Infect Agent Cancer*. 2016 Jun 2; 11: 25. doi: 10.1186/s13027-16-0072-y.
18. Extraintestinal pathogenic *Escherichia coli* sequence type 131 H30-R and H30-Rx subclones in retail chicken meat, Italy. Ghodousi A, Bonura C, Di Carlo P, van Leeuwen WB, Mammina C. *Int J Food Microbiol*. 2016 Jul 2; 228: 10-3. doi: 10.1016/j.ijfoodmicro.2016.04.004.
19. A primary subcutaneous hydatid cyst in the thigh A case report. Salamone G, Licari L, Randisi B, Di Carlo P, Tutino R, Falco N, Augello G, Raspanti C, Cocorullo G, Gulotta G. *Ann Ital Chir*. 2016 Apr 8; 87(ePub) PMID: 27054545, ISSN: 0003469X CODEN: AICHASource Type: Journal Original language: English.
20. Visceral leishmaniasis, hypertriglyceridemia and secondary hemophagocytic lymphohistiocytosis. Colomba C, Di Carlo P, Scarlata F, Iaria C, Barberi G, Famà F, Cama V, Cascio A. *Infection*. 2016 Jun; 44(3): 391-2. doi: 10.1007/s15010-016-0881-3.
21. Vitamin D and Osteoporosis in HIV/HCV Coinfected Patients: A Literature Review. Di Carlo P, Siracusa L, Mazzola G, Colletti P, Soresi M, Giannitrapani L, Li Vecchi V, Montalto G. *Int J Endocrinol*. 2015; 2015: 969040, PMID: 26273302 PMCID: PMC4530270 DOI: 10.1155/2015/969040.
22. Bentivegna E, Citarrella E, Vivaldi R, De Luca D, Maira GG, Casuccio A, Di Carlo P Leg ulcer and osteomyelitis due to methicillin-susceptible *Staphylococcus aureus* infection after fracture repair treatment: a case highlighting the potential role of prostaglandin E vasodilator.. *Infez Med*. 2015 Mar; 23(1): 69-73.ISSN: 11249390 CODEN:INMEFSource Type: Journal Original language: English.
23. Caccamo N, Pietra G, Sullivan LC, Brooks AG, Prezzemolo T, La Manna MP, Di Liberto D, Joosten SA, van Meijgaarden KE, Di Carlo P, Titone L, Moretta L, Mingari MC, Ottenhoff TH, Dieli F Human CD8 T lymphocytes recognize *Mycobacterium tuberculosis* antigens presented by HLA-E during active tuberculosis and express type 2 cytokines.. *Eur J Immunol*. 2015 Apr; 45(4): 1069-81, ISSN: 00142980 CODEN: EJIMASource Type: Journal Original language: English, DOI: 10.1002/eji.201445193 PubMed ID: 25631937Document Type: Article.
24. Casuccio A, D'Angelo C, Casuccio N, Di Carlo P, Immordino P Visiting Friends and Relatives (VFRs) travelers and imported malaria in the Palermo district (Sicily).. *Ann Ist Super Sanita*. 2014; 50(4): 369-74. doi:DOI: 10.4415/ANN140413.
25. Di Carlo P, Vitale F, O'Súilleabháin C, Casuccio A Management of Intra-abdominal Infections due to Carbapenemase-Producing Organisms.. *Curr Infect Dis Rep*. 2014 Oct; 16(10): 428, doi:10.1007/s11908-014-0428-7.
26. Di Carlo P, Pirrello R, Guadagnino G, Richiusa P, Lo Casto A, Sarno C, Moschella F, Cabibi D.Multimodal surgical and medical treatment for extensive rhinocerebral mucormycosis in an elderly diabetic patient: a case report and literature review. *Case Rep Med*. 2014; 2014: 527062, doi: 10.1155/2014/527062.
27. Bonventre S, Inviati A, Di Paola V, Morreale P, Di Giovanni S, Di Carlo P, Schifano D, Frazzetta G, Gulotta G, Scerrino G. Evaluating the efficacy of current treatments for reducing postoperative ileus: a randomized clinical trial in a single center. *Minerva Chir*. 2014 Feb; 69(1): 47-55.ISSN: 00264733 CODEN: MICHASource, Type: Journal Original language: English, PubMed ID: 24675245Document Type: Article.
28. Di Carlo P, Di Vita G, Guadagnino G, Cocorullo G, D'Arpa F, Salamone G, Salvatore B, Gulotta G, Cabibi D.Surgical pathology and the diagnosis of invasive visceral yeast infection: two case reports and literature review. *World J Emerg Surg*. 2013 Sep 26; 8(1): ISSN: 17497922Source Type: Journal Original language: English, DOI: 10.1186/1749-7922-8-38Document Type: Review.
29. Tramuto F, Maida CM, Colomba GM, Di Carlo P, Vitale F.Prevalence of occult hepatitis B virus infection in a cohort of HIV-positive patients resident in Sicily, Italy. *Biomed Res Int*. 2013; 2013: 859583, ISSN: 15571912Source Type: Journal Original language: English, DOI: 10.1007/s10903-012-9699-y PubMed ID: 22875279Document Type: Article.
30. Li Vecchi V, Giannitrapani L, Di Carlo P, Mazzola G, Colletti P, La Spada E, Vizzini G, Montalto G, Soresi M Non-invasive assessment of liver steatosis and fibrosis in HIV/HCV- and HCV-infected patients..*Ann Hepatol*. 2013 Sep-Oct; 12(5): 740-8.ISSN: 16652681Source Type: Journal Original language: English, PubMed ID: 24018492Document Type: Article.
31. Di Carlo P, Gulotta G, Casuccio A, Pantuso G, Raineri M, Farulla CA, Bonventre S, Guadagnino G, Ingrassia D, Cocorullo G, Mammina C, Giarratano A. KPC - 3 *Klebsiella pneumoniae* ST258 clone infection in postoperative abdominal surgery patients in an intensive care setting: analysis of a case series of 30 patients. *BMC Anesthesiol*. 2013 Jul 3; 13(1): 13.ISSN: 14712253 CODEN: BAMNBSource Type: Journal Original language: English, DOI: 10.1186/1471-2253-13-13Document Type: Article.
32. Tolomeo M, Roberti M, Scapozza L, Tarantelli C, Giacomini E, Titone L, Saporito L, Di Carlo P, Colomba C.TTAS a new stilbene derivative that induces apoptosis in *Leishmania infantum*. *Exp Parasitol*. 2013 Jan; 133(1): 37-43. doi: 10.1016/j.exppara.2012.10.006. Epub 2012 Oct 26.ISSN: 00144894 CODEN: EXPAASource Type: Journal Original language: English DOI: 10.1016/j.exppara.2012.10.006 PubMed ID: 23103597Document Type: Article.
33. Di Carlo P, D'Alessandro N, Guadagnino G, Bonura C, Mammina C, Lunetta M, Novo S, Giarratano A. High dose of trimethoprim-sulfamethoxazole and daptomycin as a therapeutic option for MRSA endocarditis with

- large vegetation complicated by embolic stroke: a case report and literature review. *Infez Med.* 2013 Mar; 21(1): 45-9. Review. ISSN: 14712253 CODEN: BAMNBS Source Type: Journal Original language: English, DOI:10.1186/1471-2253-13-13 Document Type: Article.
34. Mammina C, Calà C, Bonura C, Di Carlo P, Aleo A, Fasciana T, Giammanco A. (2012). Polyclonal non multiresistant *Staphylococcus aureus* isolates from clinical cases of infection occurring in Palermo, Italy, during a one-year surveillance period. *ANNALS OF CLINICAL MICROBIOLOGY AND ANTIMICROBIALS*, vol. 11, p. 17-32, ISSN: 1476-0711, doi: 10.1186/1476-0711-11-17.
35. Bonura C, Di Carlo P, Spicola D, Cal C, Mammina C, Fasciana T, Giammanco A. (2012). Rapidly growing mycobacteria in TB/HIV co-infection: a report of two cases focusing on difficulties in diagnosis and management. *NEW MICROBIOLOGICA*, vol. 35, p. 239-243, ISSN: 1121-7138.
36. Tramuto F, Maida CM, Colomba GM, Di Carlo P, Mazzola G, Li Vecchi V, Affronti M, Montalto G, Vitale F (2012). Occult Hepatitis B Infection in the Immigrant Population of Sicily, Italy. *JOURNAL OF IMMIGRANT AND MINORITY HEALTH*, ISSN: 1557-1912, DOI10.1007/s10903-012-9699-y.
37. Li Vecchi V, Soresi M, Giannitrapani L, Di Carlo P, Mazzola G, Colletti P, Terranova A, Vizzini G, Montalto G (2012). Prospective evaluation of hepatic steatosis in HIV-infected patients with or without hepatitis C virus co-infection. *INTERNATIONAL JOURNAL OF INFECTIOUS DISEASES*, vol. 16, p.397-402, ISSN:1201-9712, doi: <http://dx.doi.org/10.1016/j.ijid.2012.01.011>.
38. Li Vecchi V, Soresi M, Giannitrapani L, Mazzola G, La Sala S, Tramuto F, Caruso G, Colomba C, Mansueto P, Madonia S, Montalto G, Di Carlo P (2012). Dairy calcium intake and lifestyle risk factors for bone loss in hiv-infected and uninfected mediterranean subjects. *BMC INFECTIOUS DISEASES*, vol. 12, p.192-211, ISSN: 1471-2334, doi: 10.1186/1471-2334-12-192.
39. Cillino S, Di Pace F, Trizzino M, Li Vecchi V, Di Carlo P (2012). Chancre of the eyelid as manifestation of primary syphilis, and precocious chorioretinitis and uveitis in an HIV- infected patient: a case report. *BMC INFECTIOUS DISEASES*, vol. 12, p. 226-232, ISSN: 1471-2334,ISSN: 14712334 CODEN: BIDMBS Source Type: Journal Original language: English DOI: 10.1186/1471-2334-12-226 PubMed ID: 23006858.
40. Tolomeo M, Roberti M, Scapozza L, Tarantelli C, Giacomini E, Titone L, Saporito L, Di Carlo P, Colomba C. (2012). TTAS a New Stilbene Derivative that Induces Apoptosis in *Leishmania Infantum*. *EXPERIMENTAL PARASITOLOGY*, ISSN: 0014-4894, doi: doi.org/10.1016/j.bbr.2011.03.031.
41. DI CARLO P, TRIZZINO M, TITONE L, CAPRA G, COLLETTI P, MAZZOLA G, PISTOIA D, SARNO C, (2011). Unusual MRI findings in an immunocompetent patient with EBV encephalitis: a case report. *BMC MEDICAL IMAGING*, vol. 1, p. 6-11, ISSN: 1471-2342, doi: 10.1186/1471-2342-11-6.
42. DI CARLO P, PANTUSO G, CUSIMANO A, D'ARPA F, GIAMMANCO A, GULOTTA G, LATTERI AM, MADONIA S, SALAMONE G, MAMMINA C (2011). Two cases of monomicrobial intraabdominal abscesses due to KPC - 3 *Klebsiella pneumoniae* ST258 clone. *BMC GASTROENTEROLOGY*, vol. 11, p. 103-123, ISSN: 1471-230X, doi: 10.1186/1471-230X-11-103.
43. CORSELLO G, DI CARLO P, SALSAL L, GABRIELE B, MELI L, BRUNO S, TITONE L (2008). Respiratory syncytial virus infection in a Sicilian pediatric population: risk factors, epidemiology, and severity. *U*
44. Di Carlo P, Casuccio A, Romano A, Spicola D, Titone L, Caccamo N, Dieli F, Mammina C, Pace E, Gjomarkaj M, Melis M, Tolomeo M (2011). Lymphocyte apoptosis in children with central nervous system tuberculosis: a case control study. *BMC PEDIATRICS*, vol. 11, p. 108-113, ISSN: 1471-2431, doi:10.1186/1471-2431-11-108.
45. Mazzariol A, Mammina C, Koncan R, Di Gaetano V, Di Carlo P, Cipolla D, Corsello G, Cornaglia G. (2011). A novel VIM-type metallo-beta-lactamase (VIM-14) in a *Pseudomonas aeruginosa* clinical isolate from a neonatal intensive care unit. *CLINICAL MICROBIOLOGY AND INFECTION*, vol. 17, p. 722-724, ISSN: 1469-0691, doi: 10.1111/j.1469-0691.2010.03424.
46. Di Carlo P, Romano A, Casuccio A, Cillino S, Schimmenti MG, Mancuso G, la Chiusa S, Novara V, Ingrassia D, Li Vecchi V, Trizzino M, Titone L. (2011). Investigation and management of *Toxoplasma gondii* infection in pregnancy and infancy: a prospective study. *ACTA PHARMACOLOGICA SINICA*, vol. 32, p. 1063-1070, ISSN: 1671-4083, doi: 10.1038/aps.2011.55.
47. 2011 - Scarlata F, Giordano S, Saporito L, Marasa L, Li Pani G, Odierna A, Scaglione V, Di Carlo P, Romano A (2011). Cystic hydatidosis: a rare case of spine localization. *LE INFEZIONI IN MEDICINA*, vol. 19, p.39-41, ISSN: 1124-9390.
48. Di Carlo P, Romano A, Plano MR, Gueli A, Scarlata F, Mammina C (2010). Children, parents and Respiratory Syncytial Virus in Palermo, Italy: prevention is primary. *JOURNAL OF CHILD HEALTH CARE*, vol. 14, p. 396-407, ISSN: 1741-2889, doi: 10.1177/1367493509359231.
49. Li Vecchi V, Soresi M, Colomba C, Mazzola G, Colletti P, Mineo M, Di Carlo P, La Spada E, Vizzini G, Montalto G (2010). Transient elastography: A non-invasive tool for assessing liver fibrosis in HIV/HCV patients. *WORLD JOURNAL OF GASTROENTEROLOGY*, vol. 16, p.5225-5232, ISSN: 1007-9327, doi:10.3748/wjg.v16.i41.5225.
50. Mammina C, Bonura C, Di Carlo P, Calà C, Aleo A, Monastero R, Palma DM (2010). Daptomycin non-susceptible, vancomycin intermediate methicillin-resistant *Staphylococcus aureus* ST398 from a chronic leg ulcer, Italy. *SCANDINAVIAN JOURNAL OF INFECTIOUS DISEASES*, vol. 42, p. 955-957, ISSN: 0036-5548, doi: 10.3109/00365548.2010.524662.
51. Di Carlo P, Cabibi D, La Rocca AM, De Luca D, La Licata F, Sacco E. (2010). Postbronchoscopy fatal endobronchial hemorrhage in a woman with bronchopulmonary mucormycosis: a case report. *JOURNAL OF MEDICAL CASE REPORTS*, vol. 4, p. 398-401, ISSN: 1752-1947, doi: 10.1186/1752-1947-4-398.
52. Caccamo N, Guggino G, Joosten SA, Gelsomino G, Di Carlo P, Titone L, Galati D, Bocchino M, Matarese A, Salerno A, Sanduzzi A, Franken WP, Ottenhoff TH, Dieli (2010). Multifunctional CD4(+) T cells correlate with ISSN: 1521-4141, doi: 10.1002/eji.201040455.
53. Bonura C, Plano MR, Di Carlo P, Calà C, Cipolla D, Corsello G, Mammina C, EPI-MRSA Working Group (2010). MRSA ST22-IVa (EMRSA-15 clone) in Palermo, Italy. *JOURNAL OF INFECTION AND PUBLIC HEALTH*, vol. 3, p. 188-191, ISSN: 1876-0341, doi:10.1016/j.jiph.2010.09.004.
54. Saporito L, Florena AM, Colomba C, Pampinella D, Di Carlo P (2009). Prurigo nodularis due to *Mycobacterium tuberculosis*. *JOURNAL OF MEDICAL MICROBIOLOGY*, vol. 58, p. 1649- 1651, ISSN: 0022-2615, doi: 10.1099/jmm.0.007518-0.
55. CACCAMO N, GUGGINO G, MERAVIGLIA S, GELSOMINO G, DI CARLO P, TITONE L, BOCCHINO M, GALATI D, MATARESE A, NOUTA J, KLEIN MR, SALERNO A, SANDUZZI A, DIELI F, OTTENHOFF TH. (2009) Analysis of

- Mycobacterium tuberculosis-specific CD8 T- cells in patients with active tuberculosis and in individuals with latent infection. PLOS ONE, vol. 29, p. 1-10, ISSN: 1932-6203, doi: 10.1371/journal.pone.0005528.
56. COLOMBA C, SAPORITO L, VITALE F, REALE S, VITALE G, CASUCCIO A, TOLOMEO M, MARANTO D, RUBINO R, DI CARLO P, TITONE L (2009). Cryptic Leishmania infantum infection in Italian HIV infected patients. BMC INFECTIOUS DISEASES, vol. 9, p. 199-209, ISSN: 1471-2334, doi: 10.1186/1471-2334-9-199.
57. Di Carlo P, Romano A, Salsa L, Gueli A, Poma A, Fucà F, Dones P, Collura M, Pampinella D, Motisi D, Corsello G (2009). Epidemiological assessment of Respiratory Syncytial Virus infection in hospitalized infants, during the season 2005-2006 in Palermo, Italy. THE ITALIAN JOURNAL OF PEDIATRICS, vol. 35, ISSN: 1824-7288, doi: 10.1186/1824-7288-35-11.
58. DI CARLO P, ROMANO A, MELIS M, ABBAGNATO L, CACCAMO N, MERAVIGLIA S, DIELI F (2009). An overview of the role of T cells in controlling tuberculosis infection in a pediatric population. JOURNAL OF PEDIATRIC INFECTIOUS DISEASES, vol. 4, p. 221-228, ISSN: 1305-7707, doi: 10.3233/JPI-2009-0178.
59. MAMMINA C, DI CARLO P, CIPOLLA D, CASUCCIO A, TANTILLO M, PLANO MR, MAZZOLA A, CORSELLO G (2008). Nosocomial colonization due to imipenem-resistant Pseudomonas aeruginosa epidemiologically linked to breast milk feeding in a neonatal intensive care unit. ACTA PHARMACOLOGICA SINICA, vol. 29, p. 1486-1492, ISSN: 1671-4083
60. DI CARLO P, ROMANO A, SCHIMMENTI MG, MAZZOLA A, TITONE L (2008). Materno fetal Toxoplasma gondii infection: critical review of available diagnostic methods. LE INFEZIONI IN MEDICINA, vol. 16, p. 28-32, ISSN: 1124-9390.
61. CORSELLO G, DI CARLO P, SALSA L, GABRIELE B, MELI L, BRUNO S, TITONE L (2008). Respiratory syncytial virus infection in a Sicilian pediatric population: risk factors, epidemiology, and severity. ALLERGY AND ASTHMA PROCEEDINGS, vol. 29, p. 205-210, ISSN: 1088-5412.
62. DI CARLO P, D. CABIBI, A. MAZZOLA, D. DE LUCA, A.M. LA ROCCA AND E. SACCO (2008). Fatal Pulmonary Hemorrhage Through Fiberoptic Bronchoscopy in a Well Controlled Diabetic Female With Mucormycosis. AMERICAN JOURNAL OF INFECTIOUS DISEASES, vol. 4, p.182, ISSN: 1553-6203,doi: 10.3844/ajidsp.2008.179.182.
63. DI CARLO P, D CABIBBI, A CASUCCIO, A MAZZOLA, A ROMANO, L TITONE (2008). Features in tubercular meningoencephalitis diagnosis: 18 childhood cases. AMERICAN JOURNAL OF INFECTIOUS DISEASES, vol. 4, p. 187-192, ISSN: 1553-6203, doi: 10.3844/ajidsp.2008.187.192.
64. ROMANO A, GIORDANO S, FOLLIS F, MAZZOLA A, DI CARLO P (2008). Multiple pulmonary and multivesicular interatrial septum hydatid cysts in a native italian patient.AMERICAN JOURNAL OF INFECTIOUS DISEASES, vol. 4, p. 183-186, ISSN: 1553-6203, doi: 0.3844/ajidsp.2008.183.186.
65. 2007 - MAZZOLA A, CASUCCIO A, ROMANO A, SCHIMMENTI MG, TITONE L, DI CARLO P (2007). Diagnostic problems and postnatal follow-up in congenital toxoplasmosis. MINERVA PEDIATRICA, vol. 59, p. 207-213, ISSN: 0026-4946.
66. DI CARLO P, CASUCCIO A, LA CHIUSA S, MAZZOLA A, PAMPINELLA D, ROMANO A, SCHIMMENTI MG, TITONE L, MANCUSO G (2007). Diagnosis of congenital toxoplasmosis: pre- and post-natal evaluation in Sicilian (Italy) epidemiological area. Preliminary data. PARASSITOLOGIA, vol. 49, p. 39-41, ISSN: 0048-2951.
67. DI LIBERTO D, BUCCHERI S, CACCAMO N, MERAVIGLIA S, ROMANO A, DI CARLO P, TITONE L, DIELI F, KRENSKY AM, SALERNO A (2007). Decreased serum granulysin levels in childhood tuberculosis which reverse after therapy. TUBERCULOSIS, vol. 87, p. 322-328, ISSN: 1472-9792.
68. CATERINA MAMMINA, DI CARLO P, DOMENICO CIPOLLA, MARIO GIUFFRÈ, ALESSANDRA CASUCCIO, VINCENZO DI GAETANO, MARIA ROSA ANNA PLANO, EMMA D'ANGELO, LUCINA TITONE, GIOVANNI CORSELLO (2007). Surveillance of Multidrug-resistant Gram-negative Bacilli in a Neonatal Intensive Care Unit: Prominent Role of Cross-transmission. AMERICAN JOURNAL OF INFECTION CONTROL, vol.35, p. 222-230, ISSN: 0196-6553, doi:http://dx.doi.org/10.1016/j.ajic.2006.04.210.
69. SIRECI G, DIELI F, DI LIBERTO D, BUCCHERI S, LA MANNA MP, SCARPA F, MACALUSO P, ROMANO A, TITONE L, DI CARLO P, SINGH M, IVANYI J, SALERNO A (2007). Anti-16-kilodalton mycobacterial protein immunoglobulin m levels in healthy but purified protein derivative-reactive children decrease after chemoprophylaxis. CLINICAL AND VACCINE IMMUNOLOGY, vol. 14, p. 1231-1234,ISSN: 1556-6811, doi: 10.1128/CVI.00057-07.
70. TITONE L, MAGGIO MC, DI CARLO P, ROMANO A, TERESI S, GUICCIARDINO E, SAITTA M, LIOTTA A (2006). Hormonal, auxological and clinical follow-up in children with congenital HIV infection. Personal records. MINERVA PEDIATRICA, vol. 58 (5), p. 461-467, ISSN: 0026-4946.
71. MAGGIO MC, TITONE L, ROMANO A, SAITTA M, CELAURO MC, ABBAGNATO L, FRASCA POLARA V, INFURNARI L, LIOTTA A, DI CARLO P (2006). Hormonal, auxological and clinical follow-up in children with congenital HIV infection: personal records. LE INFEZIONI IN MEDICINA, vol. 14 (3), p. 135-144, ISSN: 1124-9390.
72. DI CARLO P, ROMANO A, SCHIMMENTI M.G, MAZZOLA A, TITONE L Infezione maternofetale da toxoplasma gondii: analisi critica della diagnosi pre e post-natale. GIORNALE ITALIANO DI MALATTIE INFETTIVE, vol. 11 (1), p. 309-313, ISSN: 1126-9952, 2005.
73. ROMANO AMELIA, GIORDANO SALVATORE, DI CARLO P, ABBAGNATO LUISA, SAPUPPO FRANCESCA, LAZZARO GAETANA, TETANO ROMANO, TITONE LUCINA (2005). INFEZIONE POLMONARE DA BLASTOSCHIZOMICES CAPITATUS PULMONARY INFECTION CAUSED BY BLASTOSCHIZOMICES CAPITATUS. LE INFEZIONI IN MEDICINA, vol. 13 , p. 187-191, ISSN: 1124-9390.
74. DI CARLO P, MAZZOLA A, ROMANO A, SCHIMMENTI MG, COLICCHIA P, BELLIPANNI P, TITONE L (2005). Follow-up post natale in nati da madre con infezione certa da Toxoplasma gondii considerazioni sul management prenatale. LE INFEZIONI IN MEDICINA, vol. 13, p.78, ISSN: 1124-9390.
75. Di Carlo P, De Grazia S, Cipolla D, Arista S, Giammanco G.M., Mammina C, Colomba C, Corsello G. (2005). Surveillance of enteric virus infection in a neonatal intensive care unit. THE ITALIAN JOURNAL OF PEDIATRICS, vol. 31, p. 395-398, ISSN: 1720-8424.
76. Di Carlo P, De Grazia S, Cipolla D, Arista S, Giammanco G.M, Mammina C, Colomba C, Corsello G. (2005). Surveillance of enteric virus infection in a neonatal intensive care unit . THE ITALIAN JOURNAL OF PEDIATRICS, vol. 31, p. 395-398, ISSN: 1720-8424.
77. ROMANO A, DI CARLO P, ABBAGNATO L, SALSA L, MAZZOLA A, MAGGIO MC, TITONE L (2004). Pulmonary tuberculosis in Italian children by age at presentation. MINERVA PEDIATRICA, vol. 56, p. 189-195, ISSN: 0026-4946.
78. Titone L, Di Carlo P, Romano A, Maggio MC, Salsa L, Abbagnato L, Mazzola A, (2004). Tuberculosis of the central nervous system in children: 32 years survey. MINERVA PEDIATRICA, vol. 56, p.611-618, ISSN: 0026-4946.
79. TOLOMEO M, DI CARLO P, ABBADESSA V, TITONE L, MICELI S, BARBUSCA E, CANNIZZO G, MANCUSO S, ARISTA

- S, SCARLATA F. (2003). Monocyte and lymphocyte apoptosis resistance in acute and chronic brucellosis and its possible implications in clinical management. *CLINICAL INFECTIOUS DISEASES*, vol. 36, p. 1533-1538, ISSN: 1058-4838.
80. LIOTTA A, MAGGIO MC, DI CARLO P, TERESI S, ROMANO A, GUICCIARDINO E, MIRAGLIA PM, TITONE L. (2003). Serum leptin and interleukin-6 levels in pediatric patients with HIV. *JOURNAL OF PEDIATRIC ENDOCRINOLOGY & METABOLISM*, vol. 16, p. 179-183, ISSN: 0334-018X.
81. ARISTA S, DE GRAZIA S, GIAMMANCO GM, DI CARLO P, IANNITTO E. (2003). Human cytomegalovirus glycoprotein B genotypes in immunocompetent, immunocompromised, and congenitally infected Italian populations. *ARCHIVES OF VIROLOGY*, vol. 148, p. 547- 554, ISSN: 0304-8608, doi:10.1007/s00705-002-0941-0.
82. TITONE L, ROMANO A, ABBAGNATO L, MAZZOLA A, DI CARLO P (2003). [Epidemiology of paediatric tuberculosis today]. *LE INFEZIONI IN MEDICINA*, vol. 11, p. 127-132, ISSN: 1124- 9390.
83. S ARISTA, S. DE GRAZIA, A ROMANO, PM MIRAGLIA, DI CARLO P (2003). Pediatric HIV infection revealed by Parvovirus B19-induced anaemia. *THE ITALIAN JOURNAL OF PEDIATRICS*, vol. 29, p.154-156, ISSN: 1720-8424.
84. DIELI F, SIRECI G, CACCAMO N, DI SANO C, TITONE L, ROMANO A, DI CARLO P, BARERA A, ACCARDO-PALUMBO A, KRENSKY AM, SALERNO A. (2002). Selective depression of interferon-gamma and granulysin production with increase of proliferative response by Vgamma9/Vdelta2 T cells in children with tuberculosis. *Journal of Infectious Diseases*
85. Miraglia P, Romano A, Saitta M, La Mantia D, Di Carlo P, Celauro M.C, Antinori S, Titone L. Esposizioni percutanee accidentali nell'area metropolitana di Palermo: osservazioni su una casistica pediatrica: *Giornale Italiano di Malattie Infettive* Volume 7 n. 4,2001.
86. DIELI F, SIRECI G, DI SANO C, ROMANO A, TITONE L, DI CARLO P, IVANYI J,FOURNIE JJ, SALERNO A. (2000). Ligand-specific alpha-beta and gamma-delta T cell responses in childhood tuberculosis. *THE JOURNAL OF INFECTIOUS DISEASES*, vol. 181, p. 294-301, ISSN: 0022-1899.
87. L.TITONE, A. ROMANO, M.G. SCHIMMENTI, L. SALSA, A. CASCIO, DI CARLO P (1999). Nuove acquisizioni sulle nevrassiti infettive; vol. 4, p. 23-29.
88. 1999 - Lucioni C, Ciriminna S, Di Carlo P, Mazzi S, Serra G, Titone L. (1999). Il costo sociale del morbillo in età pediatrica. L'epidemia a Palermo nel 1996-97. *PHARMACOECONOMICS, ITALIAN RESEARCH ARTICLES*, vol. 1, p. 17-33, ISSN: 1590- 9158.
89. ROMANO A, SCARLATA F, DI CARLO P, MUSCA A, TITONE L. (1998). Descriptive analysis of measles epidemic in Palermo, from September 1996 to June 1997. Failure of a vaccination campaign]. *MINERVA PEDIATRICA*, vol. 50, p. 15-21, ISSN: 0026-4946.
90. F.Pardo, L.lapichino, M.Collura, T.Pensabene, L.Termini, P. Di Carlo, S.Giordano. Aerosol con tobramicina nella prevenzione dell'infezione cronica da *Pseudomonas* in pazienti con fibrosi cistica. *Acta Pediatrica Mediterranea*; XIII, 3, 23-26, 1998.
91. SCARLATA F, SALSA L, DI CARLO P, DI FELICE F, MANZONI D, ARENA F. (1996). [Respiratory syncytial virus lower respiratory tract infection: our series]. *LE INFEZIONI IN MEDICINA*, vol. 4, p. 217-220, ISSN: 1124-9390.
92. ROMANO A, SALSA L, FURNARI ML, DI CARLO P, SCARLATA F, TITONE L.(1996). [Tuberculous meningo-encephalitis in pediatrics. Considerations on 71 cases (1968- 1993)]. *LE INFEZIONI IN MEDICINA*, vol. 4, p. 41-44, ISSN: 1124-9390.
93. L. TITONE, A. ROMANO, DI CARLO P, D. PATERNOSTRO, R. GIAMBRONE, F. CATALDO (1996). Deficit delle sottoclassi delle IgG in bambini con meningite acuta batterica. *RIVISTA ITALIANA DI PEDIATRIA*, vol. 22, p. 42-46, ISSN: 0392-5161.
94. A. ROMANO, L. SALSA, M.L. FURNARI, DI CARLO P, F. SCARLATA, L. TITONE. (1996). Meningoencefalite tubercolare in età pediatrica. *LE INFEZIONI IN MEDICINA*, p. 41- 44, ISSN: 1124-9390.
95. A. ROMANO, DI CARLO P, M.G. SCHIMMENTI, L. TITONE (1996). Sequele transitorie e permanenti nelle meningiti da *Haemophilus influenzae* tipo b: follow-up a lungo termine. *RIVISTA ITALIANA DI PEDIATRIA*, vol. 22, p. 920-925, ISSN: 0392-5161.
96. Effetto delle variabili Indoor Outdoor nelle infezioni respiratorie ricorrenti. La Grutta S, Romano A, Di Carlo P. *Rivista di Pediatria Preventiva e Sociale*. Vol. 45: 129-134, 1995.
97. La Grutta S, Panasci G, Romano A, Di Carlo P. Effetto delle variabili indoor e outdoor nelle infezioni respiratorie recidivanti. *Rivista Italiana di Pediatria* vol 21/S-3 Agosto 1995.
98. Titone L, Di Carlo P, Cascio A, Giordano S, Scarlata F. Social and health problems in Palermo of hospitalized children from outside the E.E.C.. *Mediterranean Journal of Infectious and Parasitic Diseases*: IX – n. 2/1994.
99. Romano A, Furnari M.L, Di Carlo P, Salsa L, Dones P. Thrombocytosis in acute bacterial Meningitis: Pathogenesis and prognosis. *Journal of Infectious and Parasitic Diseases*: vol IX – n. 2/1994 ISSN: 0394025X.
100. Titone L, Cascio A, Di Carlo P, Romano A. Encefalite da virus Epstein Barr: descrizione di due casi clinici. *Giornale di Malattie Infettive E Parassitarie*: vol 46, July 1994.
101. Titone L., Cascio A., Salsa L., Di Carlo P., Romano A. Acyclovir versus placebo in the treatment of varicella *Giornale di Malattie infettive e Parassitarie*, 1993.

ATTIVITA' SCIENTIFICHE

3. Summary of own main research achievements (Maximum 1 page)

- I am working with Prof. Antonella Agodi from Catania, who is conducting molecular genetics studies on blood samples of patients with tuberculosis and, at the same time, on vitamin D and tuberculosis on different profiles. You can see these studies my chief, Prof Caterina Mamma, previously worked on. Unfortunately she died recently of cancer.
- Moreover, I carry out surveillance studies and interviews with migrant subjects with tuberculosis, who now make up a part of our population.
- I worked with Prof. Francesco Dieli, Prof, Delia Goletti and Nadia Caccamo in the field of immunology, but using cells. We were recently published in Plos One (<http://journals.plos.org/plosone/article?id=10.1371/journal.pone.017135>)
- We have conducted studies on HIV/tuberculosis and HIV-HCV co-infection in migrant patients.

- We have published papers on children with tuberculosis but these are outdated as the research centre was transformed into a centre for adults. However, Prof Dieli has a great deal of experience in this regard.
- Moreover I have worked for many years with Prof. Caterina Mammina and Prof. Anna Giammanco, conducting molecular and microbiology epidemiological studies in cases of MDR outbreaks, especially KPC. Specifically, I worked on the multidisciplinary aspect, defining reoccurrence in the clinical and hospital environment.
- Collaborators CCM 2013 TB network: Determinants of patient and health system delay among Italian and foreign-born patients with pulmonary tuberculosis: a multicentre cross-sectional study, Crossref DOI link: <https://doi.org/10.1136/BMJOPEN-2017-019673>, Published: 2018-08, Update policy: <https://doi.org/10.1136/CROSSMARKPOLICY>
- Nowadays, I collaborated with Prof. Consolato Sergi from the University of Alberta about microbioma in sterile biliary sample
- Componente del progetto di ricerca dell'ISS dal titolo "Percorso diagnostico-assistenziale delle IST: individuazione di criticità ed inapproprietezze nei percorsi; proposte operative di implementazione del sistema territoriale per un corretto inquadramento diagnostico-assistenziale", IST ; responsabile Prof.ssa Anna Giammanco <https://prodotti.exolab.it/IST/Home>

4. Research grants obtained in open competition

- Italian Society for Ultrasound in Medicine and Biology (SIUMB) 2011 Prize for the poster: "Hepatic Steatosis (HS) and cardiovascular risk in a population of hiv positive patients"; XXIII SIUMB National Congress, Rome, 19-22 November 2011.
- #### 4.1 As principal applicant
- 2015 - c/o the Infectious Diseases Department, Paolo Giaccone Hospital. Project title: Genetic polymorphisms, vitamin D, inflammatory profile and response to treatment in patients with Pulmonary Tuberculosis in Sicily (99372); record number 10/2015
 - 2007, University of Palermo, ORPA073BRB: Management delle infezioni da gram positivi resistenti in pazienti ospedalizzati e differenziazione con strumenti di epidemiologia molecolare tra patogeni acquisiti in comunità e microrganismi ospedalieri [Management of gram positive resistant infections in hospitalised patients and differentiation with molecular epidemiology instruments between pathogens acquired in the community and hospital microorganisms].
 - 2006, University of Palermo, ORPA0642NF: Epidemiologia e caratterizzazione molecolare delle ESBL prodotte da enterobatteri isolati da pazienti ospedalizzati [Epidemiology and molecular characterisation of ESBL produced by enterobacteria isolated from hospitalised patients].
 - 2005, University of Palermo, ORPA058205: Epidemiologia e caratterizzazione molecolare delle ESBL prodotte da enterobatteri isolati da pazienti ospedalizzati [Epidemiology and molecular characterization of ESBL produced by enterobacteria isolated from hospitalised patients].
 - 2004, University of Palermo, ORPA045473: Studio di sorveglianza sulla circolazione di stipti di *Pseudomonas aeruginosa* produttori di metallo beta lattamasi (MBL) [Surveillance study on the circulation of strains of *Pseudomonas aeruginosa* producing metal-beta-lactamase (MBL)].
 - 2004, Project on the Prevention of Sexually-Transmitted Diseases, City of Palermo Health Department.
 - 2001, In charge of the Infectious Diseases Sector, Experimental Zooprohylactic Institute of Sicily, Via Gino Marinuzzi, 3-90129, Palermo, IZS SI 06/01/RC: Studio e Validazione di Metodi Analitici tradizionali e innovativi per l'isolamento in Alimenti di Origine Animale di *Enterococcus* spp resistenti ai Glicopeptidi (GRE). Confronto fenotipico e genotipico con stipti isolati da Fonte Umana [Study and validation of traditional and innovative analytical methods for the isolation of *Enterococcus* spp resistant to ai Glicopeptidi (GRE) in animal- based foods. Phenotypic and genotypic comparison with strains isolated from humans].

4.2 As co-applicant

- CCM Programme 2013, Infectious Diseases Department, Paolo Giaccone Hospital. Project title: Evaluation of factors causing delay in access to healthcare, diagnosis and treatment of pulmonary tuberculosis (PTB) in vulnerable populations. Evaluation of the impact of anti-tuberculosis drug resistance/multi-resistance on local epidemiology and prevalence. Scientific Coordinator: Caterina Mammina;
- 2005 Participation in PRIM 2005, 067184001, University of Palermo, Tipizzazione molecolare di stipti di *Listeria monocytogenes* isolati in Italia da fonte umana, alimentare ed animale. Valutazione e confronto di tecniche di tipizzazione, elaborazione ed applicazione di protocolli standardizzati: Pulsed Field Gel Electrophoresis (PFGE) e tecniche basate sull'amplificazione genica, [Molecular typing of strains of *Listeria monocytogenes* isolated in Italy from humans, foods and animals. Evaluation and comparison of typing techniques, elaboration and application of standardised protocols: Pulse Field Gel Electrophoresis (PFGE) and techniques based on gene amplification]. Lead by Prof. Caterina Mammina.
- 1997, SmithKline Beecham, S.p.A, entrusted with the Project to evaluate the pharma- economic impact of the measles epidemic in Palermo, 1996-1997.

5. Current scientific collaborations

- Scientific Advisor for Life Science Events, London
 - Collaboration with the ESCMID Study Group for Mycobacterial Infections – ESGMYC
 - Collaboration with Professor Sergi Consolato, Alberta, Canada: focus on the bile microbiome having published on it. Bactibilia in women affected with diseases of the biliary tract and pancreas. A STROBE guidelines-adherent cross-sectional study in Southern Italy. Serra N, Di Carlo P, Gulotta G, d' Arpa F, Giammanco A, Colomba C, Melfa G, Fasciana T, Sergi C. *J Med Microbiol.* 2018 Aug;67(8):1090-1095. doi: 10.1099/jmm.0.000787. Epub 2018 Jul 5.
 - Bactibilia in diseases of the biliary tract and pancreatic gland in patients older than 80 years: a STROBE-retrospective cohort study in a teaching hospital in Italy. Di Carlo P, Serra N, Gulotta G, Giammanco A, Colomba C, Melfa G, Fasciana T, Sergi C. *Eur J Clin Microbiol Infect Dis.* 2018 May;37(5):953-958. doi: 10.1007/s10096-018-3213-y. Epub 2018 Feb 27. PMID: 29975626
 - Intra-abdominal *Candida* spp infection in acute abdomen in a quality assurance (QA)-certified academic setting. Rodolico V, Di Carlo P, Gulotta G, D'Arpa F, Salamone G, Cocorullo G, Agrusa A, Giammanco A, Sergi C. *J Clin Pathol.* 2017 Jul;70(7): 579-583. doi: 10.1136/jclinpath-2016-203936. Epub 2016 Dec 9.
- Journal: Infection and Drug Resistance .Author(s): Paola Di Carlo, Nicola Serra, Francesco D'Arpa, Antonino Agrusa,

Gaspere Gulotta, Teresa Fasciana, Vito Rodolico, Anna Giammanco and Consolato Sergi Article title: The microbiota of the bilio-pancreatic system: a cohort, STROBE-compliant study Submission no: 200378, Paper citation: Di Carlo P, Serra N, D'Arpa F, Agrusa A, Gulotta G, Fasciana T, Rodolico V, Giammanco A, Sergi C. The microbiota of the bilio-pancreatic system: a cohort, STROBE-compliant study. *Infection and Drug Resistance*. In Press 2019

6. Invitations to international scientific congresses as speaker or chair

- Pathology Congress, 4th December 2014, London, UK. Presenting the paper: Histopathologic diagnosis in the era of new and old yeast infections in critically ill surgical patients.
- Session Chair, Beating Malaria Conference, 2nd June 2015, London, UK. Presenting the paper: The role of visiting friends and relatives (VFRS) in imported malaria patients.
- ICAAC/ICC 2015, USA. Presenting the paper Extra-intestinal Pathogenic *Escherichia coli* Sequence Type 131 (ST131) Subclone H30 as an Emergent Multidrug-resistant Pathogen in Patients and Chicken Meat in Italy (A Ghodousi, P Di Carlo, C Bonura, C Mammina).
- European Congress of Clinical Microbiology and Infectious Diseases, April 9 – 12, 2016, Amsterdam, The Netherlands. Presenting the paper: RANK expression by monocytes marks active disease/inflammation during tuberculosis (M. La Manna, P. Di Carlo, A. Cascio, V. Orlando, F. Dieli, N. Caccamo) Session Title: Frontiers in tuberculosis, Presentation Type: Oral Presentation, Presentation Number: O507.
- 17th ESCMID Summer School Paris, France 1 – 7 July 2018 title "Surveillance cultures on neonatal intensive care units" Recent national talk presentation and/or discussant
- 46° Congresso Nazionale SIM - Palermo 26-29 settembre 2018: "Sepsi: la diagnostica rapida nella microbiologia del futuro".
- La vaccinazione antinfluenzale" Expert Point Of View Focus on Mediterranean Area "Il paziente respiratorio, dalla clinica alle strategie terapeutiche" - Palermo, Catania, Foggia 26 Ottobre 2018
- Infezioni e Cancro, News and issue. Aggiornamenti Infettivologici Siciliani Scicli 24 novembre 2018
- PERCORSO DIAGNOSTICO ASSISTENZIALE DELLE MALATTIE SESSUALMENTE TRASMISSIBILI: L'ESPERIENZA DELLA REGIONE SICILIA
Responsabile Scientifico Prof. Anna Giammanco.
- "SICILIA - VII Workshop on HIV - Hepatitis Co-infection & Co-morbidities"
- AGGIORNAMENTI IN MALATTIE INFETTIVE E DEL FEGATO Siracusa, maggio 2019.

International oral poster presentation

- 8th European Conference on Clinical Aspects and Treatment of HIV-infection, Athens 28-31 October, 2001. p. 1422001 - S BERTELLONI, L TITONE, A LIOTTA, GI BARONCELLI, A ROMANO, MC MAGGIO, DI CARLO P, PMMIRAGLIA. Bone turnover in children with congenital HIV-infection.
- International Conference, May 17-22, 2002, Atlanta, Georgia, American Thoracic Society. vol. 165, p. 2892002 - MR MELIS, E PACE, DI CARLO P, A.ROMANO, L TITONE, AM VIGNOLA, M FERRARO, A TIPA, G BONSIGNORE, M. GJOMARKAJ (2002). Increased peripheral T-Lymphocyte apoptosis in Childhood tuberculosis.
- ECCMID 2015 Copenhagen, Denmark. Paola Di Carlo: EV0515 *Candida* spp. infections after abdominal urgent surgery: comparative analysis of histologic data for which microbiological results were positive for *Candida* spp. Paola Di Carlo, Rodolico Vito; Gulotta Gaspere; Montana Laura; Salamone Giuseppe. Abstract (eposter) Diagnostic/laboratory methods other than molecular.
- 28th International Conference on Antiviral Research, ICAR, Rome Italy, 2015. Poly- Functional Immune Response in HIV Infection: A Correlation Between Immunological and Clinical Status.
- ICAAC; 09/2015, P Di Carlo, P Immordino, N Casuccio, G Mazzola, A Casuccio: Pattern of Imported Malaria in Immigrants Resident in Sicily Italy.

AMBITI DI RICERCA

I am working with Prof. Antonella Agodi from Catania, who is conducting molecular genetics studies on blood samples of patients with tuberculosis and, at the same time, on vitamin D and tuberculosis on different profiles. You can see these studies my chief, Prof Caterina Mammina, previously worked on. Unfortunately she died recently of cancer.

- Moreover, I carry out surveillance studies and interviews with migrant subjects with tuberculosis, who now make up a part of our population.
- I worked with Prof. Francesco Dieli, Prof, Delia Goletti and Nadia Caccamo in the field of immunology, but using cells. We were recently published in Plos One (<http://journals.plos.org/plosone/article?id=10.1371/journal.pone.017135>)
- We have conducted studies on HIV/tuberculosis and HIV-HCV co-infection in migrant patients.
- We have published papers on children with tuberculosis but these are outdated as the research centre was transformed into a centre for adults. However, Prof Dieli has a great deal of experience in this regard.
- Moreover I have worked for many years with Prof. Caterina Mammina and Prof. Anna Giammanco, conducting molecular and microbiology epidemiological studies in cases of MDR outbreaks, especially KPC. Specifically, I worked on the multidisciplinary aspect, defining reoccurrence in the clinical and hospital environment.
- Collaborators CCM 2013 TB network: Determinants of patient and health system delay among Italian and foreign-born patients with pulmonary tuberculosis: a multicentre cross-sectional study, Crossref DOI link: <https://doi.org/10.1136/BMJOPEN-2017-019673>, Published: 2018-08, Update policy: <https://doi.org/10.1136/CROSSMARKPOLICY>
- Nowadays, I collaborated with Prof. Consolato Sergi from the University of Alberta about microbioma in sterile biliary sample
- Componente del progetto di ricerca dell'ISS dal titolo "Percorso diagnostico-assistenziale delle IST: individuazione di criticità

ed inappropriatezze nei percorsi; proposte operative di implementazione del sistema territoriale per un corretto inquadramento diagnostico-assistenziale", IST ; responsabile Prof.ssa Anna Giammanco <https://prodotti.exolab.it/IST/Home>

4. Research grants obtained in open competition

- Italian Society for Ultrasound in Medicine and Biology (SIUMB) 2011 Prize for the poster: "Hepatic Steatosis (HS) and cardiovascular risk in a population of hiv positive patients"; XXIII SIUMB National Congress, Rome, 19-22 November 2011.

4.1 As principal applicant

- 2015 - c/o the Infectious Diseases Department, Paolo Giaccone Hospital. Project title: Genetic polymorphisms, vitamin D, inflammatory profile and response to treatment in patients with Pulmonary Tuberculosis in Sicily (99372); record number 10/2015
- 2007, University of Palermo, ORPA073BRB: Management delle infezioni da gram positivi resistenti in pazienti ospedalizzati e differenziazione con strumenti di epidemiologia molecolare tra patogeni acquisiti in comunità e microrganismi ospedalieri [Management of gram positive resistant infections in hospitalised patients and differentiation with molecular epidemiology instruments between pathogens acquired in the community and hospital microorganisms].
- 2006, University of Palermo, ORPA0642NF: Epidemiologia e caratterizzazione molecolare delle ESBL prodotte da enterobatteri isolati da pazienti ospedalizzati [Epidemiology and molecular characterisation of ESBL produced by enterobacteria isolated from hospitalised patients].
- 2005, University of Palermo, ORPA058205: Epidemiologia e caratterizzazione molecolare delle ESBL prodotte da enterobatteri isolati da pazienti ospedalizzati [Epidemiology and molecular characterization of ESBL produced by enterobacteria isolated from hospitalised patients].
- 2004, University of Palermo, ORPA045473: Studio di sorveglianza sulla circolazione di stipiti di *Pseudomonas aeruginosa* produttori di metallo beta lattamasi (MBL) [Surveillance study on the circulation of strains of *Pseudomonas aeruginosa* producing metal-beta-lactamase (MBL)].
- 2004, Project on the Prevention of Sexually-Transmitted Diseases, City of Palermo Health Department.
- 2001, In charge of the Infectious Diseases Sector, Experimental Zooprohylactic Institute of Sicily, Via Gino Marinuzzi, 3-90129, Palermo, IZS SI 06/01/RC: Studio e Validazione di Metodi Analitici tradizionali e innovativi per l'Isolamento in Alimenti di Origine Animale di *Enterococcus* spp resistenti ai Glicopeptidi (GRE). Confronto fenotipico e genotipico con stipiti isolati da Fonte Umana [Study and validation of traditional and innovative analytical methods for the isolation of *Enterococcus* spp resistente ai Glicopeptidi (GRE) in animal-based foods. Phenotypic and genotypic comparison with strains isolated from humans].

4.2 As co-applicant

- CCM Programme 2013, Infectious Diseases Department, Paolo Giaccone Hospital. Project title: Evaluation of factors causing delay in access to healthcare, diagnosis and treatment of pulmonary tuberculosis (PTB) in vulnerable populations. Evaluation of the impact of anti-tuberculosis drug resistance/multi-resistance on local epidemiology and prevalence. Scientific Coordinator: Caterina Mammina;
- 2005 Participation in PRIM 2005, 067184001, University of Palermo, Tipizzazione molecolare di stipiti di *Listeria monocytogenes* isolati in Italia da fonte umana, alimentare ed animale. Valutazione e confronto di tecniche di tipizzazione, elaborazione ed applicazione di protocolli standardizzati: Pulsed Field Gel Electrophoresis (PFGE) e tecniche basate sull'amplificazione genica, [Molecular typing of strains of *Listeria monocytogenes* isolated in Italy from humans, foods and animals. Evaluation and comparison of typing techniques, elaboration and application of standardised protocols: Pulse Field Gel Electrophoresis (PFGE) and techniques based on gene amplification]. Lead by Prof. Caterina Mammina.
- 1997, SmithKline Beecham, S.p.A, entrusted with the Project to evaluate the pharma-economic impact of the measles epidemic in Palermo, 1996-1997.

5. Current scientific collaborations

- Scientific Advisor for Life Science Events, London
- Collaboration with the ESCMID Study Group for Mycobacterial Infections – ESGMYC
- Collaboration with Professor Sergi Consolato, Alberta, Canada: focus on the bile microbiome having published on it.
Bactibilia in women affected with diseases of the biliary tract and pancreas. A STROBE guidelines-adherent cross-sectional study in Southern Italy. Serra N, Di Carlo P, Gulotta G, d' Arpa F, Giammanco A, Colomba C, Melfa G, Fasciana T, Sergi C. *J Med Microbiol.* 2018 Aug;67(8):1090-1095. doi: 10.1099/jmm.0.000787. Epub 2018 Jul 5.
Bactibilia in diseases of the biliary tract and pancreatic gland in patients older than 80 years: a STROBE-retrospective cohort study in a teaching hospital in Italy. Di Carlo P, Serra N, Gulotta G, Giammanco A, Colomba C, Melfa G, Fasciana T, Sergi C. *Eur J Clin Microbiol Infect Dis.* 2018 May;37(5):953-958. doi: 10.1007/s10096-018-3213-y. Epub 2018 Feb 27. PMID: 29975626
Intra-abdominal *Candida* spp infection in acute abdomen in a quality assurance (QA)-certified academic setting. Rodolico V, Di Carlo P, Gulotta G, D'Arpa F, Salamone G, Cocorullo G, Agrusa A, Giammanco A, Sergi C. *J Clin Pathol.* 2017 Jul;70(7):579-583. doi: 10.1136/jclinpath-2016-203936. Epub 2016 Dec 9.
Journal: Infection and Drug Resistance. Author(s): Paola Di Carlo, Nicola Serra, Francesco D'Arpa, Antonino Agrusa, Gaspare Gulotta, Teresa Fasciana, Vito Rodolico, Anna Giammanco and Consolato Sergi Article title: The microbiota of the bilio-pancreatic system: a cohort, STROBE-compliant study Submission no: 200378, Paper citation: Di Carlo P, Serra N, D'Arpa F, Agrusa A, Gulotta G, Fasciana T, Rodolico V, Giammanco A, Sergi C. The microbiota of the bilio-pancreatic system: a cohort, STROBE-compliant study. *Infection and Drug Resistance.* In Press 2019

