

## GIULIO TARRO

CURRICULUM VITAE in Inglese

### Personal information

Name Giulio (Filippo, Giacomo) Tarro

Date of birth 09, 07,1938

Place of birth Messina, Italy

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### Professional History

#### *Education*

- 1944 -1956- Elementary and High School, Messina, Italy
- 1962 - Medical Degree summa cum laude, University of Naples
- 1968- Diploma of Specialist in Nervous and Mental Diseases summa cum laude, University of Naples
- 1970- Professorship ("Libera Docenza,,) in Virology, Rome

#### *Medical Certification*

- 1963 - Board Examination, Naples
- 1975 - Virology Head Examination, Rome

#### *Military Service*

- 1975 - Italian Navy Major
- 1982, 1984, 1995 - Course at NavyAcademy of Leghorn
- 1993 – Lieutenant Colonel *Trajnng*
- 1957-1960 - Pregraduate Fellow, Institute of Anatomy, University of Messina: Prof. Zaccaria Fumagalli
- 1960-1962 - Pregraduate Fellow, Institute of Pathology, University of Naples: Prof. Flaviano Magrassi
- 1963-1964- Postgraduate Fellow, Institute of Pathology, University of Naples

#### *Career*

- 1964-1966 - Assistant, Institute of Pathology, University of Naples
- 1965-1968 - Research Associate, Division of Virology and Cancer Research, The Children's Hospital Research Foundation, Cincinnati, Ohio: Albert B. Sabin, M.D.
- 1968-1969 - Assistant Professor of Research Pediatrics, University of Cincinnati, College of Medicine
- 1966-1974 - Italy National Research Council Fellow; Research Chief( 1974 )
- 1971-1985 - Professor of Oncologic Virology, University of Naples, I st College of Medicine

- 1971-1975 - Project Director (National Cancer Institute, Bethesda. Md, U.S.A.) Research Contract n. 712056 (1971-1972) and n. NO1 CP33315 (1973-1975)
- 1972- to date Professor of Microbiology and Immunology at the School of Specialization in Medical Nephrology, 1st College of Medicine then 2<sup>nd</sup> University of Naples (S.U.N.)
- 1973 - to date Chief, Division of Virology, "D. Cotugno" Hospital for Infectious Diseases
- 1973- Senior Scientist, N.C.I., Frederick Cancer Research Center, Fort Detrick, Frederick; Maryland
- 1975-1979 - Representative of the Education Minister in the Scientific Committee of the Zoological Station (Aquarium) of Naples
- 1978 - Life President of the "Teresa and Luigi de Beaumont Bonelli Foundation for Cancer Research" (Italian Presidential Decree, Jan. 3, 1978)
- 1995-98 Member of National Committee on Bioethics
- 1998 - to date - President Ethic Committee of D.Cotugno Hospital
- 2000-2003 Scientific Coordinator of Extracorporeal Hyperthermia in HCV Patients, First Circle Med., Minneapolis, USA
- 2003 - to date - Head Department of Diagnostic Laboratories of D.Cotugno Hospital
- 2004 - to date President of "Campania Technology and Ecology Center"
- 2005 Vice-Chairman and General Secretary of the Scientific Advisory Board of Unihart Biotech Pharma, N.V. ([www.unihart.com](http://www.unihart.com))
- 2005 – Member of Ethic Committee of Basilicata Oncologic Hospital
- 2006 – Emeritus Chief, D. Cotugno Hospital for Infectious Diseases
- 2007 – Chairman Committee on BioTechnologies and VirusSphere, World Academy of Biomedical Technologies (WABT), UNESCO – Paris
- 2007 - Adjunct Professor Department of Biology, Center for Biotechnology - College of Science and Technology, TEMPLE UNIVERSITY – Philadelphia USA

### Research Interests

- Murine Virology
- Antiviral Chemotherapy
- Effects of inhibitors on viral replication
- Studies on the role of herpesviruses in cancer
- Tumor immunology
- Pathology of AIDS

### Citations

- Who's who in the World, from 10<sup>th</sup> to 24<sup>nd</sup> Edition, Marquis 1991-92 to 2013;
- Who's who in Italy , from 1992 edition to 2005-2006 edition Sutter's International Red Series;
- Who's who in America, from 47<sup>th</sup> to 61<sup>st</sup> Edition, Marquis 1992 to 2013;
- Who's who in Science and Engineering, from 1<sup>st</sup> to 9<sup>th</sup> Edition, Marquis 1992-93 to 2006-07;
- Who's who in Medicine and Healthcare, from 1<sup>st</sup> to 7<sup>th</sup> Edition, Marquis 1997-98 to 2011-12;
- Who's who in Finance and Industry (Business), from 32<sup>nd</sup> to 36<sup>th</sup> Edition, Marquis 2001-02 to 2006-07;
- International Who's who of Professional, Gibraltar Publishing, INC. 1998; 1999; 2000;
- Grand Ambassadors of Achievement International 3<sup>rd</sup> Edition (ABI) 1993
- International Who's who of Intellectuals, International Biographical Centre, (IBC) X Edition, Cambridge 1993-94.
- International Who's who in Medicine, 2<sup>nd</sup> Edition, Intern. Biographical Centre Cambridge, England April 1994.
- Who's who in European Research and Development, Bowker-Saur, England 1995
- Who's who in Professional ed. 2004-2005
- Who's who in Historical Society, ed. 2001-2002
- Who's who in Madison, ed. 2004-2005.

- The Barons 500 Who's who: Leaders for the New Century, 1999; 2000: 2001
- Five thousand Personalities of the World, American Biographical Institute (A.B.I.), 1994; 1996; 1998
- International Directory of Distinguished Leadership, American Biographical Institute (A.B.I.), 4<sup>th</sup> Edition 1992; 5<sup>th</sup> Edition 6<sup>th</sup> Edition;
- Five hundred Leaders or Influence, American Biographical Institute (A.B.I.), 1993;
- Dictionary or International Biographical Centre, (IBC) XXII Edition, XXII Edition, Cambridge 1993; 1995
- Men or Achievement, International Biographical Centre, (IBC) XV Edition 1992; XVI Edition; XVII Edition, Cambridge:
- European Biographical Directory, 10<sup>th</sup> Edition.
- 500 Distinguished Professors of the BWW Society by J. Pellam, Irvine, California (USA) 2002; 2003

### Society membership

- American Chemical Society (since 2005)
- American Society for Microbiology (since 1967)
- American Association for the Advancement of Sciences (since 1969)
- New York Academy of Sciences (since 1973)
- International Association for Comparative Research on Leukaemia and Related Diseases
- Italian Society for Microbiology
- Italian Cancer Society
- Italian Society for Immunology and Immunopathology
- Italian Society for Infectious Diseases
- Interdisciplinary Group of Scientific Parapsychology (honorary member)
- Italian Society of Colposcopy and Cervical-Vaginal Pathology (honorary member)
- Italian Society of Immuno-Oncology (since 1990 president)
- International League "Doctors for the Abolition of VIVisection" (since 1992 president)
- European Society for Clinical Virology.
- Member of Board of Directors Neuroimmuno Therapeutics Research Foundation, Spartanburg, USA
- Member or the American Biographical Institute Research Board of Advisors
- Corresponding Member or the American Association for Cancer Research (since 1997)
- Tiberine Academy
- Italian Society of Neurology
- AIDS Society of Asia and the Pacific
- UNESCO Hebrew University of Jerusalem International School for Molecular Biology and Microbiology
- Member of Honorary Committee of Eur. Academy for the Economical and Cultural Relationships, Rome;
- Member of Scientific Medical Committee of Social Centre, Kiev - Ukraine;
- Environment Medical Doctors Association . ISDE - Italy;
- Italian Association for Viral Study and Research (president since 1995, hon. presid. 2009)
- International Society for Neurovirology

### Journals

- Member of the Scientific Committee of <<Convivia Medica>> (Rome).
- Member of the Scientific Committee of <<Panorama Scientifico>> (Naples).
- Member of the Editorial Committee of <<Nuovo Bollettino di Farmacologia Clinica" - Consorzio Regionale Farmaceutico Ospedaliero>> (Naples).
- Member of the Scientific Committee of <<Neurologia Psichiatria Scienze Umane>> (S. Maria a Vico - Caserta).
- Honorary Scientific Co-Editor of <<Igea Medica>> (Avellino)
- Honorary Member of <<Rassegna Medico-Chirurgica>> (Benevento)
- Member of the Scientific Committee of <<Ricerca Medica>> (Naples)

- Scientific Coordinator of <<Italian Review of Medical and Surgical Researches>> (Naples)
- Editor (since 2000) of <<International Journal or Clinical Investigation >> I.J.C.I., Naples
- Editor (since 2003) of <<Cotugno News>>Naples
- Editor (since 2004) of <<Fratres>> Journal of the Blood Donors, Florence

### Awards and Honors

- 1963 Lepetit Award for Medical Degree, University of Naples
- 1965, 1966 "A. B. Sabin" Prize (U.S. dollars 3,000 each) from SCLAVO Institute, Siena
- 1967 U.S. dollars 5,000 Award from Italian Pharmacotherapeutic Institute
- 1969 "G. Lenghi" International Award of the National Academy of Lincei (Rome) for Viral Studies (Former winner S. Stewart)
- 1971 "D. De Blasi" National Award from Richardson Merrel
- 1973 "Gold Microscope" International Award from Italian Health Minister (Former winners.A. B. Sabin, S. Luria)
- 1973,1975 G. D'Orso National Award (Naples) (Also winner R. Dulbecco)
- 1975 "Gold Jumbo Jet" International Award at Capitolium Rome (Former winner D. Bovet)
- 1975 Gold medal from the President of Italian Republic for achievements in public education
- 1976 Knights of Humanity International Award, Malta
- 1978 International Universum Award for Medicine from the International Center of Solidarity "Giovanni XXIII" (Former winner C. Barnard)
- 1978 Gold medal and honorary member, International Academy of Pontzen
- 1979 Gold medal and director for Medical Science, Academy of Paestum
- 1979 Diploma and academician title from the RomanAcademy of medical and biological Sciences, Capitolium (Rome)
- 1979 Gold Lion National Award from the Lion Brigade, Pistoia (Former winner: famous Italians in Art, Culture and Sciences)
- 1979 Special honour and title (Commendatore of Grace,,) from Sovereign Order of Saint John of Jerusalem, Malta (Knights of Malta,)
- 1979 Special honour and title (Comm. of Masterly Grace) from Order of S. Brigitte of Svevia
- 1981, 1986 Tifeo Award for science and Medicine from International Center of Culture, Rome-Ischia
- 1982 National Award for Sciences, under the patronage of Health Minister, at Capitolium, Rome
- 1983 Special honour and title ("Great Official of Masterly Grace,,) from Sovereign Order of S. George in Carinthia (Karrnten)
- 1983 Star of Europe Award for European Cavalier Union, Rome
- 1983 International Prize "Riace Warriors" from the Templari, Culture Society
- 1983 National Award of the South "Gold Marmaid" of Palinuro for medical studies, under the patronage of the President of the ItalianRepublic
- 1985 National Award for the Culture from the Presidenza del Consiglio dei Ministri
- 1987 First Prize in Biomed. Research, ItalianAcademy of Arts and Sciences
- 1989 Laurea Honoris Causa in MedicineCatholicUniversity, Albany, New York
- 1990 Member of Academic Senate of Costantinian University, Providence, Rhode Island, USA
- 1991 Laurea Honoris Causa in Immunology, St. Theodora Academy, New York
- 1991 Castello di Pietrarossa Award, Caltanissetta (also Winner H.H. Fudenberg)
- 1991 Decorated Comdr. Italian National Order of Merit
- 1992 International Award "Cesare d'oro", Padova
- 1994 Member of Academy Senate Pro Deo University, New York
- 1994 Kinght Grand Cross Sovereign Constantinian Order St. George
- 1994 Gold Little Horse, Transnational. European Federation, Rome
- 1995 Laurea Honoris Causa in Bioethics, ConstantinianUniversity, Cranston, Rhode Island
- 1996 King Manfredi award, Manfredonia

- 1999 Equestris Ordinis S. Sepulcri of Jerusalem, Rome
- 1999 Gold medal of health President Italian Republic, Rome
- 1999 Great Officer Italian Republic Order of Merit
- 1999 Saint Catherin Award, Siena
- 2001 Honorary academic Member University Sancti Cyrilli, Valletta, Malta
- 2003 Honorary Rector Ruggiero II University, Florida
- 2003 Sorrento in the World Award, Sorrento
- 2005 Medal of Minister for Culture, Viareggio
- 2006 Knight of Solidarity Internat. Award Norman Acad., Rome
- 2006 Saint Pio for Peace award City of Fiuggi.
- 2006 Tables of Law award Internat. Assn. Cath. Apostleship, Naples.
- 2007 Casentino award for medicine, Poppi, Arezzo
- 2008 Award Pres. Italian Rep., silver medal
- 2009 Lifetime Achievement award, Sbarro Health Research Orgn. Philadelphia
- 2010 Grand Prix Solidarite Dem. Rep. Congo
- 2010 National award for solidarity Fratres St. Giovanni La Punta
- 2011 Global Education Sanremo award
- 2011 International Peace Award
- 2012 AAAS member Royal House Aranan (Philippine) (Gold medal)
- 2012 International Prize Le Muse Florence

## Patents

### **1) "Antigenic regions of Tumor Liberated Particles (TLP) complexes and antibodies".**

Priority date(s): IT July 7, 1992. **Europe:** Patent No. EP649433 granted on November 19, 1997 and validated in the following countries: Austria, Belgium, Denmark, France, Germany, Ireland, Netherlands, Portugal, Spain, Sweden, Switzerland, United Kingdom. Eurasia & Asia **Australia:** Patent No. 680198, granted on 11/13/97; **Russian Federation:** Patent No. 2141969, granted on 4/21/99; **South Korea:** Patent No. 237250 granted on 10/10/99. US, Canada, Mexico and Brazil **United States:** 1) Patent No. 5759792, granted on 6/2/98; 2) Patent No. 5747643, granted on 5/5/98; 3) Patent No. 5877294, granted on 3/2/99; **Canada:** Patent No. 2139518, ("Notice of allowance" dated 01/10/2003).

### **2) "Pharmaceutical compositions comprising natural human interferon"**

Priority dates: 02/28/1996, 6/14/1996) **Patents Issued** Europe European Patent No. 0.886.527, granted on 9/12/01: Austria, Belgium, Denmark, France, Germany, Greece, Ireland, Liechtenstein, Luxembourg, Netherlands, Portugal, Spain, Sweden, Switzerland, United Kingdom. Other countries: **Australia:** Patent No. 722987, granted on November 30, 2000; **Eurasia** (Armenia, Azerbaijan, Belarrus, Kyrgyzstan, Kazakhstan, Maldava, Tajikistan, Turkmenistan): Patent No. 001147, recently granted (the granting date is not yet available). **Georgia:** Patent No. 2489, granted on July 25, 2001; **Italy:** 1) Patent No. 1.283.945, granted on May 7, 1998; 2) Patent No. 1.284.852, granted on May 22, 1998. **North Korea:** Patent No. 33639, granted on December 24, 1999; **Russian Federation:** Patent No. 001147, recently granted (see "Eurasia");

### **3) "Urogenital carcinoma TLP complex peptides and antibodies thereof".**

Priority date(s): IT October 10 1996. **Europe:** Patent No. EP851872 granted on April 18, 2001 and validated in the following countries: Austria, Belgium, Denmark, France, Germany, Greece, Ireland, Netherlands, Portugal, Spain, Sweden, Switzerland, United Kingdom.

### **4) "Immunogenetic TLP composition"**

Priority date(s): IT July 10, 1996. **Europe:** Patent No. EP938329 granted on May 29, 2002 and validated in the following :Austria, Belgium, Denmark, France, Germany, Ireland, Netherlands, Portugal, Spain, Sweden, Switzerland, United Kingdom. Other countries: **Australia:** Patent No. 725218, granted on January 25, 2001. **Russian Federation:** Patent Applications No. 2192274, granted on November 10, 2002.

**5) "Sticking plaster for controlled release of natural interferon"**

Priority date(s): see PCT application. International Patent Application No. PTC/EP98/03809, filed on June 22, 1998, has been extended in the following countries: Australia, Canada, China, Europe, Japan, Mexico, New Zelanda, Norway, U.S.A. The International Preliminary Examination Report, issued at the end of the PCT procedure, has expressed a favourable opinion with regard to novelty, inventiveness and industrial applicability. **Austria:** Patent No. 84396/98 has been allowed and the corresponding Patent issued shortly. **New Zelanda:** Patent No. 509029 has been allowed and the corresponding Patent issued shortly.

**6) "Transdermal patch and tropical compositions comprising propylnorapomorphine".**

Priority date(s): IT July 17, 1998. International Patent Application No. PTC/IE99/00066, filed on July 15, 1999, has been extended in the following countries: Australia, Canada, China, Europe, Japan, Mexico, New Zelanda, Norway, U.S.A. The International Preliminary Examination Report, issued at the end of the PCT procedure, has acknowledged the novelty of the claims **Japan:** Patent Applications No. 2000-559833, filed on January 15, 2001. **Mexico:** Patent No. 000527, filed on January 15, 2001. **Norway:** Patent Applications No. 20010248, filed on January 15, 2001.

**7) "Use of rubidium and in particular rubidium chloride as an antimanic agent and stabilizer for mood swings".**

Priority date(s): IE April 19, 1999. International Patent Application No. PTC/IE00/0004, filed on April 17, 2000, has been extended, within the terms foreseen by the international conventions, in the following countries: Canada, China, Europe, Japan, Mexico, New Zelanda, Norway, U.S.A. The International Preliminary Examination Report, issued at the end of the PCT procedure, has expressed a favourable opinion with regard to novelty, inventiveness and industrial applicability.

**8) "TLP Peptides and DNA-sequences coding the same".**

Priority date(s): IT February 25, 2000. The International Patent Application No. PTC/E001/01857, filed on February 20, 2001, has been extended, within the terms foreseen by the international conventions, in the following countries: Australia, Brazil, Canada, China, Japan, North Korea, Russian Federation, South Korea, U.S.A. **Europe,** designating: Austria, Belgium, Cyprus, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, Monaco, Netherlands, Portugal, Spain, Sweden, Switzerland Liechtenstein, Turkey, United Kingdom. The International Preliminary Examination has been concluded (IPER issued on May 21, 2002) with a positive opinion regard to novelty, inventiveness and industrial applicability of the claims concerning the cDNA of TLP, the peptide coded by the same and the relevant pharmaceutical compositions.

**9) "Diphenyl ketoaldehyde derivatives with anti-HIV activity".**

Priority date(s): IT March 24, 2000. The International Patent Application No. PTC/EP01/03343, filed on March 23, 2001, has been extended, within the terms foreseen by the international conventions, in the following countries: Australia, Brazil, Canada, China, Japan, Mexico, New Zelanda, Norway, Russian Federation, South Africa, U.S.A. **Europe,** designating the following countries: Austria, Belgium, Cyprus, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, Monaco, Netherlands, Portugal, Spain, Sweden, Switzerland/Liechtenstein, Turkey, United Kingdom. The International Preliminary Examination Report, issued at the end of the PCT procedure, has acknowledged the novelty of the invention.

**10) "Compounds with anti-Rhinovirus activity".**

**Italy:** The Patent Application filed on June 9, 2000 under No. MI2000A001288, has not been extended.

**11) "Slow release" pharmaceutical compositions comprising lithium carbonate.**

Priority Date(s): IT August 6, 2001.

Priority: IT/10.08.00/ITA MI001868 + IT/14.02.01/MI000299. Designated states: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE, TR.

The International Patent Application No. PTC/EP01/09054, filed on August 6, 2001, and extended, within the term foreseen by the international conventions, in the following countries: **Europe**, designating the following countries: Austria, Belgium, Cyprus, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, Monaco, Netherlands, Portugal, Spain, Sweden, Switzerland/Liechtenstein, Turkey, United Kingdom, and moreover in: **"Euroasiatic Area"**, designating the following countries: Armenia, Azerbaijan, Belarrus, Russian Federation, Kyrgyzstan, Kazakhstan, Maldava, Tajikistan, Turkmenistan. **Australia, Brazil, Canada, China, Japan, U.S.A.** On October 2, 2002, the IPER (International Preliminary Examination Report), has expressly acknowledged novelty, inventiveness and industrial applicability of all the five claims.

**12) "TLP Antigen and diagnostic applications thereof".**

Priority Date (s): IT, June 29, 2001. The International Patent Application No. PTC/EP02/07020, filed on June 25, 2002, has been published on January 9, 2003 under No. WO03/002591. The international preliminary examination concluded within October 29, 2003, while the national/regional started within December 29, 2003.

**13) "Fusion Proteins containing TLP peptides".**

Priority Date (s): IT, November 30, 2001. The International Patent Application No. PTC/EP02/13470 has been filed on November 29, 2002.

**14) "Compounds with anti-Rhinovirus activity".**

The Italian Patent Application (No. MI2002A000966), filed on May 8, 2002, extended within the priority year as PTC application.

Date (s): December 13, 2004. Application No./Patent No.: 03727431.3-2123-EP0304673. Date of filing: May 5, 2003. Priority: IT/08.05.02/ITA MI20020966. Designated states: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LI, LU, MC, NL, PT, RO, SE, SI, SK, TR.

**15) "Pharmaceutical composition containing the association LevodopaCarbidopa".**

Italian Application filed on April 18, 2003.

**16) "Pharmaceutical compositions containing interferon f or the treatment of Human Papilloma Virus Infections".**

Italian Application filed on April 18, 2003.

**17) "Method of treating viral hepatitis by administration of liquid human  $\alpha$ -interferon"**

Issued on April 26, 2005 Patent 6884411 – US classes

**Selected publications (over 500 articles in total)**

- Recherches sur le mecanisme d'action d'un groupe de medicaments a activit  antivirale (produits chetoald hydiques du diph nyle et leur derviv s): Facteurs qui interferent sur leur activit  protectrice in vivo. (with F. Magrassi, P. Altucci et al.). III Internat. Congr. Of Chemotherapy – Stuttgart, July 1963. Proceedings, pag. 783 (1964).
- Studies on the mechanism of antiviral activity of ketoaldehyde derivates of biphenyl. (with F. Magrassi, P. Altucci et al.) International "Symposium on non specific resistance to virus infection, Interferon and viral chemotherapy" Smolenice, September 1964. Chemotherapia 9, 341, 1964.
- Studies on the mechanism of antiviral activity of biphenyl ketoaldehydes. (with F. Magrassi, p. Altucci et al.) Proceedings of the Fourth Congress of the Hungarian Association of Microbiologists Akad miai Kiado Budapest 1964, pag. 11.
- Properties of an avirulent influenza A virus variant derived from drug treated mice infected with PR8 virus. (with F. Magrassi, et al.) In "Antimicrobial Agent and Chemotherapy" pag 605 (1965).

- Properties of an avirulent influenza A virus variant derived from drug treated mice infected with PR8 virus. (with F. Magrassi, et al.) Arch. ges. Virusforsch, 18, 422, 1966.
- Effect of Streptovitacin A on replication of RNA virus (poliovirus). Proc. Soc. Exp. Biol. Med. 126, 535. 1967.
- Virus Specific, Labile, Nonvirion Antigen in Herpes Virus Infected Cells. (with A. B. Sabin) Proc. Natl. Acad. Sci. U.S. 65, 753, 1970.
- Increase in Preexisting Cellular Antigen Combining Groups at Different Times after Infection with Different Viruses. (with A. Sabin) Proc. Natl. Acad. Sci. U.S. 67, 731, 1970.
- Studies on the mechanism of antiviral activity of Ketoaldehyde derivatives of bifhenil. (with F. Magrassi et al.) Rev. roum. d'inframicobiol. 5, 275, 1968.
- Effect of two methisazone derivatives on herpes simplex virus replication. (with P. Mastroeni). VII Intern. Congress of Chemotherapy, August 1971 Avicenum, Czechoslovak Medical Press, Praga, pag. 273.
- Soluble Membrane Antigens of Lip and Cervical carcinomas: Reactivity with Antibody for Herpesvirus Nonvirion Antigens. (with A.C. Hollinshead) Science 179, 698, 1973.
- Appearance in Trypsinized Normal Cells of Reactivity with Antibody Presumably Specific for Malignant Cells. Proc. Nat Acad. Sci. USA 70, 325, 1973.
- Nonvirion Antigens Produced by Herpes Simplex Viruses 1 and 2. (with A. B. Sabin) Proc. Nat. Acad. Sci. USA, 70, 1032, 1973.
- Herpes Simplex and Herpes Genitalis Virus in Etiology of Some Human Cancers. (with A. B. Sabin) Proc. Nat. Acad. Sci. USA, A70, 3225, 1973.
- Studies of Tumor-specific and Herpes Virus Non virion Antigens. (with A. Hollinshead et al.) Cancer Res. 34, 1122, 1974.
- Characterization of herpesvirus non virion antigens: relation to squamous cell carcinomas.(with A. Hollinshead, W. Rawls e P. Chretien) In E. Kurstak and R. Morriset (ed) "Viral Immunodiagnosis", Academic Press, New York, 1974.
- Soluble Membrane Antigens of Lip and Cervical carcinomas: Reactivity with Antibody for Herpesvirus Nonvirion Antigens. (with A.C. Hollinshead) Year Book of Cancer 1974.
- Analysis and Description of Procedures Used in the Study of the Relationship of Herpes Simplex "Nonvirion" Antigens to Certain Cancers. In C. de Thé, M. A. Epstein, H. zur Hansen (ed.) "Oncogenesis and Herpesviruses" I.A.R.C., Lyon 1975.
- Preliminary studies of nonvirion antigens associated with Herpes Simplex virus 1 and 2 (HSV-1- HSV-2) (with Accini R. et al.) Boll. Ist. Sieroter. Milanese 55, 120 1976
- Herpes Simplex virus nuclear non virion antigens detected by anticomplement immunofluorescence (with Giordano C. et al.) Tumori 62 (6) 609, 1976
- Herpes Simplex virus tumour associated antigens in cancer patients (with Di Gioia M. et al.) Tumori 62 (6) 615, 1976
- Cell-mediated immunity to Herpes Simplex virus types 1 and 2 antigens in leucoplakia and carcinoma in man. (with E. J. Shillitoe, T. Lehner) Oncology 33, 192, 1976.
- Detection of early antigens in nuclei of cells infected by cytomegalovirus, Herpes Simplex type 1 and 2 by anticomplement immunofluorescence and blocking assay to demonstrate their specificity.(with G. Giraldo, E. Beth, U. Hammerling, F.M. Kourilsky)Int. J. Cancer 19, 17, 1977.
- Enzyme Linked Immunosorbent Assay for Herpes Simplex Virus Tumor-associated Antigen. (with R. Cocchiara et al.) Cancer 45, 938, 1980.
- An Immune Enzymatic Assay for Purified Tumor Associated antigen of Herpes Simplex Virus.(in coll.) Cellular and Molecular Biology 25, 329, 1980.
- Purification of Herpes Virus Tumor Associated Antigen from Human Kidney Carcinoma. (with R. Cocchiara et al.) Cancer 46, 1594, 1980.
- Foreword of the proceedings of the First International Congress of Viral Oncology The role of Virus in Human Cancer, vol. 1 Elsevier, North Holland, 1980.



- Herpes Simplex Virus Tumor Associated Antigen (HSV-TAA) Detected by the Enzyme-Linked Immunosorbent Assay (ELISA). in *The Role of Viruses in Human Cancer*, vol. 1, Giraldo e Beth Editori, Elsevier North Holland inc., pag. 108, 1980.
- Il TAF test: un nuovo metodo per la diagnosi di alcuni tumori. *Rivista Medica della Svizzera Italiana* 45, 245, 1980
- Monoclonal Antibodies to Herpes Simplex Virus Tumor Associated Antigen. (with A. Karpas e T. Wheeler) *International Workshop on Herpesviruses Soc. Edizioni Esculapio, Bologna 1981*, pag. 232.
- Circulating Immunocomplexes (CIC) in Sera of Patients with Herpes Simplex Virus (HSV) - Associated carcinomas. (in coll.) *International Workshop on Herpesviruses Soc. Edizioni Esculapio, Bologna 1981*, pag. 236.
- Traitement de la herpetique avec le metiseprinol. Aspect clinique et histologique (with Gorgone G., Cavallaro N., Scaletta S., Carnazza S., Ricci M., Gala Trinchera G., Cordaro S.) *Bull. Soc. Belge Ophtal.* 192 113-123 1981
- Perspectives and limits of an immunoenzymatic assay (ELISA) for Herpes Simplex Virus (HSV) Tumor-Associated Antigen (TAA). *Cancer Detection and Prevention* 4, 47, 1981.
- An immunoenzymatic assay for herpes simplex virus tumour associated antigen in gynaecological oncology (with Magli G., Scimone C., Flaminio G., D'Alessandro G., Mascolo A., Magli R., Saladino I.) *Eur. J. Gynaec. Oncol.* 1982 ISSN: 0392.2936.III.2
- Further Studies on an Immunoenzymatic Assay for Heres Simplex Virus-Tumor Associated Antigen. (in coll.) *Clin. Immunol. Immunopath..* 25, 126, 1982.
- Human tumor antigens inducing in vivo delayed hypersensitivity and in vitro mitogenic activity. (with A. Pederzini et al.) *Oncology* 40, 248, 1983.
- As above Immunomodulation amd Therapy in Cancer (with Pedercini A. et al.) ed. H.H. Fuderberg, P. Pontiggia, C. Ogler, *Acta Medica edit. Congressi 1983*, pag. 307
- Virological Investigation of Young Children with Acute Respiratory Syndrome Associated with Respiratory Syncytial Virus (RSV). (in coll.) in *Medical Virology II*, Editor L.M. de La Maza, E.M.. Peterson Elseiver Biomedical, 1983, p. 402.
- Quantitative Determination of Human CMV IgG Antibodies by solid phase enzyme immunoassay: comparison with CF test. (in coll.) in *Medical Virology II - Editor L.M. de La Maza, E.M.. Peterson Elseiver Biomedical*, 1983, p.392.
- Correlation between immune complexes and Herpes Simplex Virus (HSV) Tumor Associated Antigen (TAA) in Human Cancer Sera. (with others) *Cellular and molecular biology* 29, 394, 1983.
- The role of herpes simplex virus in the neoplastic pathologies and diagnostic markers. *J. Exp. Clin. Cancer Res.* 4 (2),213, 1985.
- Serological and Virological Investigations of Young Children with Acute respiratory Syndrome Associated with Respiratory Syncytial Virus. *Diagnostic Microbiology and Infection Disease* 3 (1), 81, 1985.
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- 106) Fragments of Tumor Liberated Protein from Lung Cancer to Stimulate Immune Response to Attack Existing Tumors. Theme: Collaborative Actions against Cancer. Dalian (China), May 2011.
- 107) Emerging Viral Agents at Risk in Global Health Approaches to Early Diagnosis and Prompt. Theme: Computational Biology. Las Vegas (USA), July 2011.
- 108) Tracking the 2009 H1N1 influenza virus in the Italian region Campania. PubMed 21928341.
- 109) Peptide Search in the Tumor Liberated Protein (TLP) from Non Small Cell Lung (NSCL) Cancer. BIT's 4<sup>o</sup> Annual World Congress of Biosoft, Beijing, March 2012.
- 110) Tumor Liberated Protein (TLP) from lung cancer and perspectives for immunotherapy. OMICS Computer Aided Drug Design & Qsar. Chicago, October 2012.
- 111) Tumor Liberated Protein (TLP) and human corine in lung cancer cells: Homology or different isoforms in the sequence at the cytoplasmic surface. OMICS Computer Aided Drug Design & Qsar. Chicago, October 2012.
- 112) Viral Cancer Vaccines and Tumor Associated Antigens (TAA) in Immunotherapy, Preventive and Curative. BIT's 6<sup>th</sup> Annual World Congress of Cancer. Xi'an, May 2013.
- 113) Human corin and Tumor Liberated Protein (TLP) in NSCL Cancer: Homology of different Isoforms in the Sequence at the Cell Surface. Bit's 6th Annual World Congress of Cancer. Xi'an, May 2013.
- 114) Analysis of the Immunosuppressive Microenvironment in Human Breast Cancer. BIT's Major Diseases Clinical Summit. Warsaw, November 2013.
- 115) State of Art in Lung Cancer Immunotherapy. BIT's 2<sup>nd</sup> Lung Cancer Summit. Rome, December 2013.
- 116) State of Art on Cancer Vaccines, from Viruses to Tumor Associated Antigens (TAA). BIT's 6<sup>th</sup> Annual World Congress of Vaccines. Dalian, April 2014.
- 117) Recent Advances in Lung Cancer Proteomics: Biomarkers Discovery. PepCon – BIT's 7<sup>th</sup> Annual World Protein & Peptide. Dalian, April 2014.
- 118) New development on Tumor Associated Antigen with Specific Target. IBIO – BIT's 7<sup>th</sup> Annual Congress of Industrial Biotechnology. Dalian, April 2014.
- 119) From viruses to tumor associated antigen cancer vaccines. OMICS 4<sup>th</sup> International Conference on Vaccine & Vaccination. Valencia, September 2014.

- 120) Vaccine Research and Development in Oncology. Global Conference on Vaccines. Dubai, April 2015.
- 121) Vaccine Research and Development in Oncology. BIT's 7<sup>th</sup> Annual World Congress of Vaccine. Nanjing, April 2015.
- 122) Latest Progress on Lung cancer Proteomics. PepCon – BIT's 8<sup>th</sup> Annual World Protein & Peptide Conference. Nanjing, April 2015.
- 123) Up to date on Tumor Liberated Protein (TLP): New Test at Hamburg. IBIO – BIT's 8<sup>th</sup> Annual World Congress of Industrial Biotechnology. Nanjing, April 2015.
- 124) Analyzing the risk of Flu for understanding a better prevention. International Conference on Flu Hosted by OMICS International, Chicago, June 8-10-2015.
- 125) Oncogenic Viruses and Tumor Associated Antigens Vaccines International Conference on Vaccines Research and Development by United Scientific Group, Baltimore (USA, November 2-4, 2015).
- 126) Immunotherapy Perspectives for Tumor Liberated Protein (TLP) from Non Small Cell Lung Cancer. 2<sup>nd</sup> International Lung Cancer Symposium. Budapest, Hungary. April 16-17, 2016.
- 127) Important topics on human vaccines and vaccination for non infectious diseases. 8<sup>th</sup> Annual World Congress of Vaccine 2016 (WCV-2016) Dalian, China. April 25-28, 2016.
- 128) The recent and progressive studies on genetic analysis of TLP and its expression as complete protein sequence. The World DNA and Genome Day 2016 (WDD-2016). Dalian /China) April 25-28, 2016.
- 129) Isolation of the TLP encoding cDNA, gene sequence and analysis of its expression control. 9<sup>th</sup> annual World Protein and Peptide Conference – 2016 (Pep-Con, 2016). Dalian (China) April 25-28, 2016.
- 130) Human Vaccines and Vaccination for Non Infectious Diseases. 10<sup>th</sup> Euro Global Summit and Expo on Vaccines and Vaccination. Rome, June 16-17, 2016 (Honorable Organizing Committee Member).
- 131) Migratory Phenomena and Bioethics of the Vaccinations, 4<sup>th</sup> Annual Conference on Applied Microbiology, September 19-21 2016 Las Vegas, USA (Organizing Committee Member).
- 132) A vaccine approaches with a tumor associated antigen for preventive and therapeutic application, Vaccine ReD 2016, November 10-12, 2016 Cartagena, Columbia.
- 133) Emerging Influenza Viruses at Risk in Global Health. "2<sup>nd</sup> International Conference on Flu", San Francisco, USA. November 28-30, 2016 (Organizing Committee Member).
- 134) Emerging H1N1 Influenza A Virus and its Specific Prevention. Annual Conference on H1N1 and Influenza Vaccines, Atlanta, USA December 01-02, 2016 (Honorable Organizing Committee Member).

### **Biographical sketch of Giulio Tarro**

Dr Tarro has been engaged in medical research for over 30 years. He was born on July 9 1938 in Messina, Sicily, where he attended High School, and in 1956 began his medical studies at Messina University and then in 1960 continued at Naples University from which he received his M.D. "summa cum laude" in 1962 and the professorship for Oncological Virology in 1972.

His research work began in 1960 in the virology laboratory of the department of Medical Pathology at the University of Naples and continued during the entire period of his medical studies. In 1963 and 1964 he was at the Polyclinic of the University in Naples receiving training in pathology, neurology and internal medicine. In 1965 he went to the Children's Hospital Research Foundation at the University of Cincinnati,

where he worked with Dr Albert B. Sabin as a Research associate for three years and, subsequently, in 1968 and 1969 he was assistant Professor of Research Pediatrics at the same University. From there Dr Tarro went back to Naples and established a virology laboratory at the Hospital for Infectious Diseases with the help of a Research Contract from the National Cancer Institute (U.S.A.). In 1973 Dr Tarro worked as Senior Scientist at the Frederick Cancer Research Center with Dr Albert Sabin, who was then a special consultant for the National Cancer Institute. His most notable work provided experimental evidence for the association of herpes viruses with cancer of the cervix. Although at first controversial, this work has been carried out by several laboratories using different techniques.

Dr Tarro's researches in Virology have been both basic and mission oriented. His basic researches have been concerned with antigens induced early during the replication cycle of herpes simplex virus (HSV). Specific antibodies were detected by the enzyme-linked immunosorbent assay in the serum of patients affected with certain carcinomas of the head, neck and urogenital tract. His mission-oriented research has dealt with many aspects of various infectious diseases including broncho-pneumonia, encephalitis, cholera, and the diseases caused by different viruses.

During 1979 he was engaged in research on an epidemic disease in Naples called the "dark disease". Dr Tarro isolated the respiratory syncytial virus (RSV) and found antibody evidence that this virus was behind the epidemic. The World Health Organization experts were called in and agreed most cases of disease were caused by RSV. In 1981 he suggested the proper use of interferon to cure the cytomegalovirus infection affecting the pope John Paul the second who underwent long surgical operation and received huge blood transfusion after the killing attempt.

Dr Tarro is currently engaged in scientific research related to the separation and identification of tumour antigens present on cell membranes and their potential value in immunotherapy for cancer. He has shown that specific soluble antigens may be used in various tests for a further understanding of their role in various cancer systems. Another study has involved the identification, isolation and characterization of specific virus-induced tumour antigens, which were the "finger-prints" left behind in tumours induced in man by human herpes viruses. Intramural activities have included being director of thesis and research for many candidates; director of medical research fellowships for medical students; participation in research planning for clinical colleagues; teaching virology, oncology and immunology to medical and graduate students.

He is on the editorial board of various Italian medical journals. Dr Tarro has been elected to membership of many academies and societies. He has also been the recipient of many awards and honours. Dr Tarro is life president of the T. and L. de Beaumont Bonelli Foundation for Cancer Research officially recognized by Italian presidential decree n. 36 of January 3, 1978. The aim of the Foundation is the promotion of scientific research on cancer and was instituted thanks to the generous donation of the late Teresa Berger who left to the foundation a large part of her patrimony, whereas the late husband, the Earl Luigi de Beaumont Bonelli, left most of his patrimony to the Nobel foundation.

Son of Emanuele and Jannello Emanuela, his father was a doctor, an anatomic and clinical pathologist. His sister, Licia, teaches French and is married.

Dr Tarro was on his own since the age of twenty, making the living on scholarships, and used his earnings to purchase books. He enjoys soccer, swimming and good food. His favourite hobbies are art history and sightseeing.

In 2007 Tarro has adopted one son, Giuseppe, expert in computing who is married with Antonella and they have a daughter, Giulia.

