

CURRICULUM VITAE

GIORGIO PALÙ, MD, FESCMID, PROFESSOR



EDUCATION: 1973 MD School of Medicine, University of Padova, Italy, with best marks & honours; 1974-1975 Italian and American Boards of Medicine; 1976-1978 Specialty Diplomas in Oncology and in General Pathology, School of Medicine, University of Pavia, Italy.

RECENT POSITION(S): 1990-2019, Full Professor and Chair of Microbiology and Virology, School of Medicine, Department of Molecular Medicine, University of Padova, Italy and 1996-2019, Head of the Division of Clinical Microbiology and Virology, School of Medicine, Padova University Hospital, Italy. 2007-2019; Adjunct Professor in Neurosciences, School of Medicine, Department of Neurosciences, Temple University, Philadelphia (USA); 2010-present, Adjunct Professor in Science and Technology, School of Biology, Department of Biology, Temple University, Philadelphia (USA). Ministerial appointments (February 2020) as Emeritus Professor of the University of Padova; Scientific Advisor of Regione Veneto for Health and viral emergencies (February 2020); Scientific consultation with Croatian Government for COVID-19 (August 2020); President of the Italian Medicines Agency (AIFA), December 2020; Board of experts for vaccines and antivirals, European Medicines Agency (EMA), April, 2021.

PREVIOUS POSITION(S): 1976-1990 Postdoctoral fellow and Research associate, Institut Bordet (Université Libre, Brussels, 1976), Chester Beatty Research Institute (London University, 1976-80); Visiting Professor at the University of Yale (1982, 1983, Departments of Pharmacology, Chemistry, Molecular Biochemistry and Biophysics), at the National Institute for Medical Research, London (1981, 1985 UK) and at Harvard University (1990, sabbatical year, Dana Farber Cancer Institute, USA). 1991-1999 Director, Institute of Microbiology, School of Medicine, University of Padova, Italy. 1999-2002 Director, Department of Histology, Microbiology and Medical Biotechnologies, School of Medicine, University of Padova, Italy. 2011-2015 Director, Department of Molecular Medicine, School of Medicine, University of Padova, Italy. September 2013, Scientific Director of the Venetian Institute of Oncology, IRCCS-IOV, Padova, Italy, (ministerial appointment). 2014-2018 Director, Department of "Prevention and Treatment of Infectious Diseases", School of Medicine, University Hospital, Padova, Italy.

GRANTED PROJECTS (last 10 years, for over 5 million Euro): 2007-2008 Italian NIH n. 526D/40 (Italy-US joint project on rare diseases "hyperparathyroidism-jaw tumour syndrome"); 2010-2013 FP7 Health n. 261426 "WINGS "Epidemiology, Diagnosis and Prevention of West Nile Virus in Europe"; 2010-2015 Veneto Region n. 2154 "Genotypic and phenotypic analysis of emerging viruses"; 2011-2014 FIRB RBAP114AMK_011 "Anticancer drug delivery"; 2013-2016 PRIN-MIUR n. 2012Z9FLM8 "Pathogenesis of HPV diseases"; 2019-2022 PRIN-MIUR n. 2017KM79NN_005 "Addressing viral neuropathogenesis: Unraveling the molecular and cellular pathways of viral replication and host cell response and paving the way for the development novel host-targeted, broad spectrum, antiviral agents".

SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS: Since 1987 supervisor of more than 100 graduate students and postdoctoral fellows for Italian and European Universities (University of Kent, Bristol and London, UK; University of Heidelberg and Ulm, Germany).

TEACHING ACTIVITIES: 1980-1982, Assistant Professor of Virology, University of Parma, Medical School, 1982-1989 Associate Professor of Virology and since 1990 Full Professor of Microbiology and Virology, School of Medicine, University of Padova, Italy; 2013 Guest Professor of Molecular Medicine at the University of Ulm, Germany.

INSTITUTIONAL RESPONSIBILITIES: 2004-2011 Dean, School of Medicine, University of Padova, Italy; 2002-2004 Pro-Rector, University of Padova, Italy (Foreign Affairs and International Research); 2001-2013

Coordinator, PhD Courses in Virology and Microbial Biotechnologies, in Biomedicine and in Molecular Medicine, University of Padova, School of Medicine, Italy (joint project with Ulm University); 2010-2014 Director, Specialization School in Infectious Diseases, University of Padova, School of Medicine, Italy.

COMMISSIONS OF TRUST WITH CURRENT INVOLVEMENT: 2015-2018, Ministry of Health, Commission of Biotechnology, President; 2011-2018, Scientific Advisory Board, Institute of Human Virology, University of Maryland, USA; 2005-present, Roister of experts, European Center for Disease Prevention and Control (ECDC), Sweden; 2008-2015, Consultant of the Minister of Health and of the Minister of University and Research; AIFA, 2009-2012, member of the technical-scientific committee; 2012-2016, Executive Board Italian AIDS Commission; From 1990 Grant reviewer for NIH (USA), MRC (UK), European Commission (EU), Italian Ministry of Education, University and Research (MIUR-BIOMED), Italian Ministry of Health (MS), Italian Institute of Health (ISS), Italian Center for Research (CNR), Agence Nationale de la Recherche (ANR, France), Human Frontier Science Program (HFSP), Deutsche Forschungsgesellschaft (DFG); President Scientific Commission for the evaluation of research projects dealing with infectious diseases, Novo Nordisk Foundation (2018-2019).

EDITORIAL BOARD MEMBER: Cancer Therapy (Gene Therapy Press, USA 1997-2013); Journal of Neurovirology (USA, 2003-present); Gene Therapy (Nature Pub. Group, USA/UK 2005-2008); Infectious Agents and Cancer (Springer Nature, UK, 2006-present); BMC Pharmacology and Toxicology (UK, editor section drug design, discovery and delivery, 2014-present); Journal of Virology & Retrovirology (Symbiosis Group, USA 2014-present); Viruses (CH, 2017-present).

MEMBERSHIPS OF SCIENTIFIC SOCIETIES: 2014-present, Invited member EASAC (European Academies Science Advisory Council); 2013-2019, President, European Society for Virology, Germany; 2010-2019, Corresponding member of GFV-Gesellschaft für Virologie (German Society for Virology); 2001-present, Founding member, Italian Society for Virology; 2001-2012, 2016-2019, President; 2001-2004 Cochair, American Society of Gene Therapy, USA (Cancer gene therapy).

RESEARCH INTERESTS AND AWARDS: Antimicrobial and antiviral therapy and resistance; Anticancer therapy; Molecular, Applied (Biotechnology) and Clinical Virology and Microbiology; Development of molecular and cellular therapies; design of viral and non-viral vectors for gene transfer, somatic gene therapy and vaccinology for neoplastic, infectious and genetic diseases. Author of over 600 publications in Peer-review journals and of 35 book chapters. **Awards:** 1995 Third European Award on Gene Therapy (European Society of Gene Therapy); 1995 Clemson University distinct scholar award (for the search of new antivirals); 1997 Gene Therapy Award for the first clinical trial of gene therapy of glioblastoma with two genes in combination (Italian Society of Neurosurgery); 2005 International Prize in Medicine Bruno da Longobucco (University of Calabria, Italy); 2014 Excellence in Virology Award - Italian Society for Virology; 2017 Nomination as Fellow of the European Society of Clinical Microbiology and Infectious Diseases (FESCMID) for "outstanding scientific contribution"; 2018 Italian Prize Golden Wings for culture merits; 2018 QS World University Rankings (Brescia); 2019 Young Minds at Work, PhD School in Biomedicine, Prize for pioneering enterprise in Virology (Desenzano, Lake Garda); 2019 Leonardo Prize (Gerace); 2019 International Prize Fondazione "Guido Lenghi e Flaviano Magrassi" (Accademia Nazionale dei Lincei, Roma); Member of the Olympic Academy (Accademia Olimpica) Class Sciences and technology (2019); Padovano eccellente (September 2020). Winner of the prize for the best 2020 paper of the FEMS Journal Pathogens and Disease "Coronaviruses: a paradigm for new emerging zoonotic diseases".

Keynote lecturer and invited speaker at many International Congresses and prestigious Research and Educational Institutions: among others, Harvard; Yale; UCL; ICL; ICRF; UCSD; UCLA; Mayo; Columbia; Stanford; The Royal Society, London; National Academy of Sciences, Washington; The Royal Netherlands Academy of Arts and Sciences (KNAW); The European Academies' Science Advisory Council (EASAC), the Slovenian Academy of Sciences; The Croatian Academy of Sciences and Arts. **Organizer** of more than 30 International Congresses in the last 10 years.

Holder of national and international patents for diagnostic procedures, viral and non-viral vectors for gene therapy and vaccines, antitumor drugs, antiviral drugs.

Padua, April, 2021



PUBBLICATIONS

1. CASARA D., DE BESI P., FIORENTINO M., MELANOTTE P.L., PALÙ G., SPERANDIO P., VINANTE O. False positive bone scan in bone tumors of the lower limbs. **Europ. J. Nucl. Med.** **II**: 163-165, 1977.
2. FERRAZZI E., CARTEI G., DE BESI P., FORNASIERO A., PALÙ G., PACCAGNELLA A., SPERANDIO P., FOSSER V., GRIGOLETTO E., FIORENTINO M. Tamoxifen in disseminated breast cancer. **Tumori**, **63(5)**: 463-468, 1977.
3. FIORENTINO M., PALÙ G., SPERANDIO O., VINANTE O., DE BESI P., REALDI G., PENNELLI N. Non-african sporadic Burkitt's lymphoma in italian patients. **Eur. J. Cancer**, **14**: 15-23, 1978.
4. POWLES R.L., SELBY P.J., PALÙ G., MORGENTSTERN G., Mc ELWAIN T.J., CLINK H.M., ALEXANDER P. The nature of remission in acute myeloblastic leukaemia. **The Lancet** **II**: 674-676, 1979.
5. PALÙ G., SELBY P.J., POWLES R.L., ALEXANDER P. Spontaneous regression of human acute myeloid leukaemia xenografts and phenotypic evidence for maturation. **Br. J. Cancer**, **40**: 731-735, 1979.
6. PALÙ G., POWLES R.L., SELBY P.J., SUMMERSGILL B.M., ALEXANDER P. Patterns of maturation in short-term culture of human acute myeloid leukaemia cells. **Br. J. Cancer**, **40**: 719-730, 1979.
7. PALÙ G. Thymidine phosphorylase a possible marker of cell maturation in acute myeloid leukaemia. **Tumori**, **66**: 35-42, 1980.
8. RUSSELL J., PALÙ G., SELBY P.J., POWLES R.L. The use of cultured cells for immunotherapy of acute myelogenous leukaemia. **Adjuvant Therapy of Cancer II**, Jones S.E. and Salmon S.E. Eds., Grune and Stratton, New York, 199-202, 1980.
9. POWLES R.L., PALÙ G., RAGHVAN D. The curability of acute myeloid leukaemia. **Topical Reviews in Haemathology**. Roath S. Ed., John Wright & sons, Bristol, 188-219, 1980.
10. PALÙ G. Effetto del 12-O-Tetradecanoil Forbolo-13-Acetato (TPA) su cellule di leucemia melioide acuta (LAM) ottenute direttamente dal paziente. Incapacità del composto di indurre una "vera" maturazione. **Acta Bio-Medica de L'Ateneo Parmense**, **52**:145-152, 1981.
11. PALÙ G. Expression of colony stimulating activity (CSA) and production of colony forming unit(s) by acute myeloid leukaemia cells showing maturation in short-term culture. **Haematologica**, **67**: 188-198, 1982.
12. DANIELS R.S., DOUGLAS A.R., GONSALVES-SCARANO F., PALÙ G., SKEHEL J.J., BROWN E., KNOSSOW M., WILSON S.A., WILEY D.C.: Antigenic structure of influenza virus haemoagglutinin. **The Origin of Pandemic Influenza W.G. LAVER Editor - ELSEVIER**, 9-18, 1983.
13. PALÙ G., VON BERGER J., MELONI G.A., MASOTTI L. Nature of toxicity o in A₁ for the chick embryo fibroblast cells and its physico-chemical interactions with protein and nucleic acid. **Biochem. Pharmacol.** **33**: 147-154, 1984.
14. PORTINCASA P., PALÙ G., CONTI G., PESCE A., CHEZZI C. Effect of coumermycin on influenza a virus replicative cycle. **Microbiologica**, **7**: 121-132, 1984.
15. PALÙ G., PALUMBO M., CUSINATO R. ANTONELLO C., GASTALDI S., MARCIANI MAGNO S., MELONI G.A., Studio dell'attività antivirale di furocumarine. **G. Ital. Chemioter.**, 31:49-54, 1984.
16. VARNIER O.E., MURATORE O., RAFFANTI S.P., MELIOLI G., PALÙ G., SCHITO G.C., Coumermycin inhibition of murine retrovirus replication in cultured cells. **J. Antimicrob. Chemother.**, **14(2)**: 139-147, Aug 1984.
17. RUFFATTI A., PALÙ G., ARTIFONI L., CALLIGARO A., FERRI C., BOMBARDIERI S., TODESCO S. Gli anticorpi Anti-Scl 70 e Anti-Centromero nelle connettiviti. **Reumatismo**, **36**: 81-88, 1984.
18. MASOTTI L., PALÙ G., VON BERGER J., MELONI G.A. Different ability of novobiocin and coumermycin A₁ to interact with nucleic acids. **Microbiologica**, **7**: 113-120, 1984.
19. PALÙ G., PALUMBO M., CUSINATO R., MELONI G.A., MARCIANI MAGNO S. Antiviral properties of psoralen derivatives: a biological and physico-chemical investigation. **Biochem. Pharmacol.**, **33**: 3451-3456, 1984.
20. PALUMBO M., CAPASSO L., PALÙ G., MARCIANI MAGNO S. DNA binding of water soluble furocoumarines: a thermodynamic and conformational approach to understanding different biological effects. **Nucl. Acids Res.**, **12**: 2567-2578, 1984.
21. PALÙ G., PALUMBO M., CATTAI N., MARCIANI MAGNO S., MELONI G.A. Interaction of adriamycin and related anthraquinones to eukaryotic chromatin. **J. Chemother.**, **4**: 1176-1178, 1985.
22. PALUMBO M., CAPASSO L., PALÙ G., MARCIANI MAGNO S. Conformational aspects of drug DNA interactions: studies on anthracycline antibiotics and psoralen derivatives. **J. Biosci.**, **8**: 689-697, 1985.
23. PALÙ G., PALUMBO M., ANTONELLO C., MELONI G.A., MARCIANI MAGNO S. A search for potential antitumor agents: biological effects and DNA binding of a series of anthraquinone derivatives. **Mol. Pharmacol.**, **29**: 211-217, 1986.
24. BARCELLONA M.L., PALÙ G., VALISENA S., RAGUSA N., MASOTTI L., AVITABILE M., MELONI G.A. DAPI effect on pUC8 DNA expression in JM83 *E.coli* cells. **Ital. J. Biochem**, **35**: 186-190, 1986.
25. FERRAZZI E., PALUMBO M., VALISENA S., ANTONELLO C., PALÙ G. Antitumor activity of new anthraquinone derivatives. **J. Chemother.**, **5**: 330-336, 1986.
26. PALÙ G., MELONI G.A., Biology of herpesvirus replication and mechanisms of antiviral drug activity. **Eur. J. Gynaec. Oncol.**, **45**: 207-211, 1987.

27. GIA O., PALÙ G., PALUMBO M., ANTONELLO C., MARCIANI MAGNO S. Photoreaction of psoralen derivatives with structurally organized DNA. **Photochem. Photobiol.**, **45**: 87-92, 1987.
28. PALÙ G., VALISENA S., BARCELLONA M.L., MASOTTI L., MELONI G.A. DAPI-pUC8 complex: a tool to investigate biological effects of nucleic acid-drug interaction. **Biochem. Biophys. Res. Commun.**, **145**: 40-45, 1987.
29. PALUMBO M., PALÙ G., GIA O., FERRAZZI E., GASTALDI S., ANTONELLO C., MELONI G.A. Bis-substituted hydroxy-anthracenediones: DNA-binding and biological activity. **Anticancer Drug Design**, **1**: 337-346, 1987.
30. PALÙ G., SUMMERS W.P., VALISENA S., TOGNON M. Preliminary characterization of a mutant of herpes simplex virus type 1 selected for acycloguanosine resistance in vitro. **J. Med. Virol.**, **24**: 251-262, 1988.
31. BONORA G.M., PALÙ G. Selective modification of thymidine by dansyl group and biological effects of the dansyl derivatives. **Biochem. Pharmacol.**, **37**, **9**: 1849-1850, 1988.
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33. PALUMBO M., PALÙ G., MARCIANI MAGNO S. Thermodynamics and stereochemistry of the intercalation between anthraquinone drugs and DNA. **Macromolecular Biorecognition**, Edited by Irwin Chaiken, Emilia Chiancone, Angelo Fontana, and Paolo Neri. The Humana Press, Inc., 185-198, 1988.
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35. PALÙ G., BIASOLO M.A. Nucleotide sequence of the thymidine kinase gene of a new strain of herpes simplex virus type 1. **Virus genes**, **2**: 2, 183-186, 1988.
36. MONTECUCCO A., SPADARI S., FOCHER F., PEDRALI-NOY G., SALA C., PALÙ G., CIARROCCHI G. Detection of the effects of intercalating and non-intercalating drugs on DNA structure. **Biochem. Pharmacol.**, **37**: 1853-1854, 1988.
37. PALUMBO M., CERA C., MARCIANI MAGNO S., PALÙ G. Interaction of nucleosomes with anthracycline antibiotics: relevance to anticancer activity. **Biochem. Pharmacol.**, **37**: 1871-1872, 1988.
38. PALÙ G., VALISENA S., PERACCHI M., PALUMBO M. Do quinolones bind to DNA? **Biochem. Pharmacol.**, **37**: 1887-1888, 1988.
39. PALÙ G., VALISENA S., BERTOLONI G., CERA C., PALUMBO M. A further insight into the mechanism of action of anthracycline antibiotics. **Microbiologica**, **11**: 307-319, 1988.
40. PAGANETTO G., PALÙ G., TOGNON M. Some theoretical aspects of the mechanism of action of benzhydrazone, an inhibitor of glycosylation in herpes simplex virus. **Microbiologica**, **12**: 121-127, 1989.
41. PALUMBO M., PALÙ G., MARCIANI MAGNO S. Chemotherapeutic agents of the anthraquinone structural type: DNA-binding and biological activity. **Trends in Medicinal Chemistry '88**, H. van der Goot, G. Domàny, L. Pallos and H. Timmerman Eds., Elsevier, Science Publishers B.V., Amsterdam, 757-780, 1989.
42. PALÙ G., VALISENA S., BARILE M.F., MELONI G.A. Mechanisms of macrolide resistance in *ureaplasma urealyticum*: a study on collection and clinical strains. **Eur. J. Epidemiol.**, **5**(2): 146-153, June 1989.
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44. CERA C., PALUMBO M., PALÙ G., CROTHERS D.M. N-methylmitomycin A cross-linking to nucleosomal structure. **Anticancer Drug Design**, **5**: 55-58, 1990.
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46. MELONI G.A., PALÙ G., CUSINATO R., VALISENA S. Elimination of contaminating mycoplasmas from cell cultures by a new quinolone. **Zentralblatt für Bakteriologie, Mikrobiologie und Hygiene**, **20**: 948-950, 1990.
47. MELONI G.A., PALÙ G., VALISENA S. Sporadic and intrinsic macrolide resistance in *Mollicutes*. **Zentralblatt für Bakteriologie, Mikrobiologie und Hygiene**, **20**: 103-110, 1990.
48. VALISENA S., PALUMBO M., PAROLIN C., PALÙ G., MELONI G.A. Relevance of ionic effects on norfloxacin uptake by *E. coli*. **Biochem. Pharmacol.**, **40**: 431-436, 1990.
49. PALÙ G., HANDSCHUMACHER R.E., PAROLIN C., STEFANELLI S., PALATINI P. Effect of herpes simplex virus type 1 infection on nucleoside transport in Hela-S3 cells. **J. Gen. Virol.**, **71**: 673-679, 1990.
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53. BEVILACQUA F., MARCELLO A., TONI M., ZAVATTONI M., CUSINI M., ZERBONI R., GERNA G., PALÙ G. Acyclovir resistance/susceptibility in herpes simplex virus type 2 sequential isolates from an AIDS patient. **JAIDS, J. Acq. Imm. Def. Syndr.**, **4(10)**: 967-969, 1991.
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