

**Progetto:
Patologia infettiva**

Sottoprogetto 1: Biologia e genetica molecolare

Alano, P., Read, D., Bruce, M., Aikawa, M., Kaido, T., Tegoshi, T., Bhatti, S., Smith, D.K., Luo, C., Hansra, S., Carter, R., Elliott, J.F. (1995). COS cell expression cloning of Pf_g377, a *Plasmodium falciparum* gametocyte antigen associated with osmophilic bodies. *Mol. Biochem. Parasitol.*, **74**: 143-156.

Alano, P., Roca, L., Smith, D., Read, D., Carter, R., Day, K. (1995). *Plasmodium falciparum*: parasites defective in early stages of gametocytogenesis. *Exp. Parasitol.*, **81**: 227-235.

Aloisi, F., Borsellino, G., Carè, A., Testa, U., Gallo, P., Russo, G., Peschle, C., Levi, G. (1995). Cytokine regulation of astrocyte function: *in vitro* studies using cells from the human brain. *Int. J. Dev. Neurosci.*, **13** (3/4): 265-274.

Coccia, E.M., Marziali, G., Stellacci, E., Perrotti, E., Ilari, R., Orsatti, R., Battistini, A. (1995). Cells resistant to interferon- β respond to interferon- γ via Stat1-IRF-1 pathway. *Virology*, **211**: 113-122.

Coccia, E.M., Stellacci, E., Orsatti, R., Testa, U., Battistini, A. (1995). Regulation of ferritin H-chain expression in differentiating Friend leukemia cells. *Blood*, **86** (4): 1570-1579.

Coccia, E.M., Stellacci, E., Perrotti, E., Marziali, G., Battistini, A. (1995). Differential regulation of ferritin expression in Friend leukemia cells by iron compounds. *J. Biol. Regul. Homeostat. Agents*, **8** (3): 81-87.

De Simone, R., Giampaolo, A., Giometto, B., Gallo, P., Levi, G., Peschle, C., Aloisi, F. (1995). The costimulatory molecule B7 is expressed on human microglia in culture and in multiple sclerosis acute lesions. *J. Neuropath. Exp. Neurol.*, **54** (2): 175-187.

Dunn, S.J., Fiore, L., Werner, R.L., Cross, T.L., Broome, R.L., Ruggeri, F.M., Greenberg, H.B. (1995). Immunogenicity, antigenicity and protection efficacy of baculovirus expressed VP4 trypsin cleavage products, VP5(1) and VP8 from rhesus rotavirus. *Arch. Virol.*, **140**: 1969-1978.

Federico, M., Nappi, F., Bona, R., D'Aloja, P., Verani, P., Rossi, G.B. (1995). Full expression of transfected nonproducer interfering HIV-1 proviral DNA abrogates susceptibility of human He-La CD4+ cells to HIV. *Virology*, **206**: 76-84.

Federico, M., Nappi, F., Ferrari, G., Chelucci, C., Mavilio, F., Verani, P. (1995). A nonproducer, interfering human immunodeficiency virus (HIV) type 1 provirus can be transduced through a murine leukemia virus-based retroviral vector: recovery of an anti-HIV mouse/human pseudotype retrovirus. *J. Virol.*, **69** (11): 6618-6626.

Fedson, D.S., Hannoun, C., Leese, J., Sprenger, M.J.W., Hampson, A.W., Bro-Jørgensen, K., Ahlbom, A.M., Nøkleby, H., Valle, M., Olafsson, O., Garcia, F.S., Gugelman, R., Rebelo de Andrade, H., Snacken, R., Ambrosch, F., Donatelli, I. (1995). Influenza vaccination in 18 developed countries, 1980-1992. *Vaccine*, **13** (7): 623-627.

Fiore, L., Dunn, S.J., Ridolfi, B., Ruggeri, F.M., Mackow, E.R., Greenberg, H.B. (1995). Antigenicity, immunogenicity and passive protection induced by immunization of mice with the baculovirus-expressed VP7 protein from rhesus rotavirus. *J. Gen. Virol.*, **76**: 1981-1988.

Fiorucci, G., Percario, Z.A., Coccia, E.M., Battistini, A., Rossi, G.B., Romeo, G., Affabris, E. (1995). Hemin inhibits the interferon β -induced antiviral state in established cell lines. *J. Interferon Cytokine Res.*, **15**: 395-402.

Fiorucci, G., Percario, Z.A., Marcolin, C., Coccia, E.M., Affabris, E., Romeo, G. (1995). Inhibition of protein phosphorylation modulates expression of the Jak family protein tyrosine kinases. *J. Virol.*, **69** (9): 5833-5837.

Garbuglia, A.R., Salvi, R., Di Caro, A., Montella, F., Di Sora, F., Recchia, O., Delfini, C., Benedetto, A. (1995). Peripheral lymphocytes of clinical non-progressor patients harbor inactive and uninducible HIV proviruses. *J. Med. Virol.*, **46**: 116-121.

Minghetti, L., Levi, G. (1995). Induction of prostanoid biosynthesis by bacterial lipopolysaccharide and isoproterenol in rat microglial cultures. *J. Neurochem.*, **65**: 2690-2698.

Pace, T., Ponzi, M., Scotti, R., Frontali, C. (1995). Structure and superstructure of *Plasmodium falciparum* subtelomeric regions. *Mol. Biochem. Parasitol.*, **69**: 257-268.

Patrizio, M., Costa, T., Levi, G. (1995). Interferon- γ and lipopolysaccharide reduce cAMP responses in cultured glial cells: reversal by a type IV phosphodiesterase inhibitor. *Glia*, **14**: 94-100.

Verani, P., Nicoletti, L. (1995). Phleboviruses infections. In: *Kaas handbook of infectious diseases. Exotic viral infections*. J.S. Portfield (Ed.). London, Chapman & Hall Medical. p. 295-317.

Visentin, S., Agresti, C., Patrizio, M., Levi, G. (1995). Ion channels in rat microglia and their different sensitivity to lipopolysaccharide and interferon- γ . *J. Neurosci. Res.*, **42**: 439-451.

Sottoprogetto 2: Epidemiologia dell'AIDS

Cantoni, M., Cozzi Lepri, A., Grossi, P., Pezzotti, P., Rezza, G., Verdecchia, A. (1995). Use of AIDS surveillance data to describe subepidemic dynamics. *Int. J. Epidemiol.*, **24** (4): 804-812.

De Mei, B., Greco, D., Molica, M. (1995). Corso di formazione sulla prevenzione dell'infezione da HIV per ufficiali medici-docenti in ambito militare: obiettivi, metodi, valutazione. *G. Med. Mil.*, **145** (5): 581-590.

Ministero della Sanità, Istituto Superiore di Sanità; Commissione Nazionale per la Lotta contro l'AIDS; Ministero della Pubblica Istruzione. (1995). *La scuola che promuove la salute. La prevenzione dell'HIV/AIDS e delle malattie sessualmente trasmesse*. (V Campagna informativo-educativa sull'AIDS). 188 p.

[Per l'Istituto Superiore di Sanità hanno partecipato: D. Greco, E. Rosa, A. Crenca, M. Tidei].

Verdecchia, A., Mariotto, A. (1995). A back-calculation method to estimate the age and period HIV infection intensity, considering the susceptible population. *Stat. Med.*, **14**: 1513-1530.

Rapporti tecnici:

Linee guida per la conduzione di corsi di formazione sul trattamento a domicilio per persone affette da AIDS e patologie correlate. (1995). A cura di A. De Santi, P. Borgia, M. Fantoni, G. Marasca. Roma, Istituto Superiore di Sanità. (Rapporti ISTISAN, 95/10). 191 p.

Sottoprogetto 3: Immunomodulatori, citochine e chemioterapia

Arancia, G., Molinari, A., Crateri, P., Stringaro, A., Ramoni, C., Dupuis, M.L., Gomez, M.J., Torosantucci, A., Cassone, A. (1995). Noninhibitory binding of human interleukin-2-activated natural killer cells to the germ tube forms of *Candida albicans*. *Infect. Immun.*, **63** (1): 280-288.

Belardelli, F. (1995). Role of interferons and other cytokines in the regulation of the immune response. *APMIS*, **103**: 161-179.

Borghi, P., Fantuzzi, L., Varano, B., Gessani, S., Puddu, P., Conti, L., Capobianchi, M.R., Ameglio, F., Belardelli, F. (1995). Induction of interleukin-10 by human immunodeficiency virus type 1 and its gp120 protein in human monocytes/macrophages. *J. Virol.*, **69** (2): 1284-1287.

Cassone, A. (1995). Cell-mediated immunity mechanisms in fungal infections. In: *Selected topics in medical mycology*. L. Nall, J. Jacobs (Eds). New York, Marcell Dekker. Chapter 7, p. 113-135.

Cassone, A., Boccanera, M., Adriani, D., Santoni, G., De Bernardis, F. (1995). Rats clearing a vaginal infection by *Candida albicans* acquire specific, antibody-mediated resistance to vaginal reinfection. *Infect. Immun.*, **63** (7): 2619-2624.

Coccia, E.M., Marziali, G., Stellacci, E., Perrotti, E., Ilari, R., Orsatti, R., Battistini, A. (1995). Cells resistant to interferon- β respond to interferon- γ via the Stat1-IRF-1 pathway. *Virology*, **211**: 113-122.

Coccia, E.M., Stellacci, E., Orsatti, R., Testa, U., Battistini, A. (1995). Regulation of ferritin H-chain expression in differentiating Friend leukemia cells. *Blood*, **86** (4): 1570-1579.

Colangeli, R., Pantosti, A., D'Ambrosio, F., Tzianabos, A., Kasper, D.L. (1995). Serotyping of *Bacteroides fragilis* strains isolated from faecal and clinical samples in Italy using monoclonal antibodies directed to capsular antigens. *Microecol. Ther.*, **25**: 398-402.

Fattorini, L., Li, B., Piersimoni, C., Tortoli, E., Xiao, Y., Santoro, C., Ricci, M.L., Orefici, G. (1995). *In vitro* and *ex vivo* activities of antimicrobial agents used in combination with clarithromycin, with or without amikacin, against *Mycobacterium avium*. *Antimicrob. Agents Chemother.*, **39** (3): 680-685.

Fiorucci, G., Percario, Z.A., Coccia, E.M., Battistini, A., Rossi, G.B., Romeo, G., Affabris, E. (1995). Hemin inhibits the interferon β -induced antiviral state in established cell lines. *J. Interferon Cytokine Res.*, **15**: 395-402.

Fiorucci, G., Percario, Z.A., Marcolin, C., Coccia, E.M., Affabris, E., Romeo, G. (1995). Inhibition of protein phosphorylation modulates expression of the Jak family protein tyrosine kinases. *J. Virol.*, **69** (9): 5833-5837.

Genovese, D., Conti, C., Tomao, P., Desideri, N., Stein, M.L., Catone, S., Fiore, L. (1995). Effect of chloro-, cyano-, and amidino-substituted flavanoids on enterovirus infection *in vitro*. *Antiviral Res.*, **27**: 123-136.

Oggioni, M.R., Fattorini, L., Li, B., De Milito, A., Zazzi, M., Pozzi, G., Orefici, G., Valensin, P.E. (1995). Identification of *Mycobacterium tuberculosis* complex, *Mycobacterium avium* and *Mycobacterium intracellulare* by selective nested polymerase chain reaction. *Mol. Cell. Probes*, **9**: 321-326.

Paganelli, R., Scala, E., Ansotegui, I.J., Ausiello, C.M., Halapi, E., Fanales-Belasio, E., D'Offizi, G., Mezzaroma, I., Pandolfi, F., Fiorilli, M., Cassone, A., Aiuti, F. (1995). CD8 $^{+}$ T lymphocytes provide helper activity for IgE synthesis in human immunodeficiency virus-infected patients with hyper-IgE. *J. Exp. Med.*, **181**: 423-428.

Pantosti, A., Cerquetti, M., D'Ambrosio, F., Superti, F. (1995). Detection of enterotoxigenic *Bacteroides fragilis* with a cytotoxic assay. In: *Medical and dental aspects of anaerobes*. B.I. Duerden, W.G. Wade, J.S. Brazier, A. Eley, B. Wren, M.J. Hudson (Eds). Northwood (Middlesex, UK), Science Reviews. p. 247-248.

Pantosti, A., Colangeli, R., Tzianabos, A.O., Kasper, D.L. (1995). Monoclonal antibodies to detect capsular diversity among *Bacteroides fragilis* isolates. *J. Clin. Microbiol.*, **33** (10): 2647-2652.

Pantosti, A., Frate, A., Menozzi, M.G., Sanfilippo, L., Piersimoni, C., Di Rosa, R. (1995). Presence of enterotoxigenic *Bacteroides fragilis* strains in Italy. *Microecol. Ther.*, **25**: 144-146.

Santini, S.M., Rizza, P., Logozzi, M.A., Sestili, P., Gherardi, G., Lande, R., Lapenta, C., Belardelli, F., Fais, S. (1995). The SCID mouse reaction to human peripheral blood monocuclear leukocyte engraftment. Neutrophil recruitment induced expression of a wide spectrum of murine cytokines and mouse leukopoiesis, including thymic differentiation. *Transplantation*, **60** (11): 1306-1314.

Testa, U., Conti, L., Sposi, N.M., Varano, B., Tritarelli, E., Malorni, W., Samoggia, P., Rainaldi, G., Peschle, C., Belardelli, F., Gessani, S. (1995). IFN- β selectively down-regulates transferrin receptor expression in human peripheral blood macrophages by a post-translational mechanism. *J. Immunol.*, **155**: 427-435.

Tissi, L., von Hunolstein, C., Mosci, P., Campanelli, C., Bistoni, F., Orefici, G. (1995). *In vivo* efficacy of azithromycin in treatment of systemic infection and septic arthritis induced by type IV group B streptococcus strains in mice: comparative study with erythromycin and penicillin G. *Antimicrob. Agents Chemother.*, **39** (9): 1938-1947.

Wagner, B., Fattorini, L., Wagner, M., Jin, S.H., Stracke, R., Amicosante, G., Franceschini, N., Orefici, G. (1995). Antigenic properties and immunoelectron microscopic localization of *Mycobacterium fortuitum* β -lactamase. *Antimicrob. Agents Chemother.*, **39** (3): 739-745.

Sottoprogetto 4: Meccanismi di trasmissione dell'infezione

Antonelli, M., Moro, M.L., Vivino, G. (1995). Bacteremia, pneumonia and acute renal failure in trauma patients. In: *Yearbook of intensive care and emergency medicine*. J.L. Vincent (Ed.). Berlin, Springer-Verlag. p. 834-842.

Bigliocchi, F., Maroli, M. (1995). Distribution and abundance of house-dust mites (Acarina: Pyroglyphidae) in Rome, Italy. *Aerobiologia*, **11**: 35-40.

Cacciapuoti, B., Ciceroni, L., Ciarrocchi, S., Khouri, C., Simeoni, J. (1995). Genetic and phenotypic characterization of *Borrelia burgdorferi* strains isolated from *Ixodes ricinus* ticks in the province of Bolzano, Italy. *Microbiologica*, **18**: 169-181.

Ciceroni, L., Bartoloni, A., Pinto, A., Guglielmetti, P., Gamboa Barahona, H., Roselli, M., Paradisi, F. (1995). Prevalence of leptospiral infections in humans in Cordillera province, Bolivia. *Trans. R. Soc. Trop. Med. Hyg.*, **89**: 385-386.

Ciceroni, L., D'Aniello, P., Russo, N., Picarella, D., Nese, D., Lauria, F., Pinto, A., Cacciapuoti, B. (1995). Prevalence of leptospiral infections in buffalo herds in Italy. *Vet. Rec.*, **137**: 192-193.

- Ciceroni, L., Pinto, A., Benedetti, E., Pizzocaro, P., Lupidi, R., Cinco, M., Gelosa, L., Grillo, R., Rondinella, V., Marcuccio, L., Mansueti, S., Ioli, A., Franzin, L., Giannico, F., Cacciapuoti, B. (1995). Human leptospirosis in Italy, 1986-1993. *Eur. J. Epidemiol.*, **11**: 1-4.
- D'Amelio, R., Stroffolini, T., Matricardi, P.M., Nisini, R., Tosti, M.E., Trematerra, M., Villano, U., Rapicetta, M., Mele, A. (1995). Low prevalence of anti-HCV antibodies among Italian Air Force recruits. *Scand. J. Infect. Dis.*, **27**: 12-14.
- Delfino, D., Chiofalo, M.S., Riggio, G., Angelici, M.C., Gramiccia, M., Gradoni, L., Iannello, D. (1995). Induction of interleukin 1 α in murine macrophages infected *in vitro* with different species and strains of Leishmania. *Microb. Pathogen.*, **18**: 73-80.
- Fausto, A.M., Mazzini, M., Maroli, M., Feliciangeli, M.D. (1995). Spermatozoon of the sandfly *Lutzomyia longipalpis* (Lutz & Neiva) (Diptera, Psychodidae). *Boll. Zool.*, **62**: 339-343.
- Gradoni, L., Bryceson, A., Desjeux, P. (1995). Treatment of Mediterranean visceral leishmaniasis. *Bull. WHO*, **73** (2): 191-197.
- Gradoni, L., Guaraldi, G., Codeluppi, M., Scalzone, A., Rivasi, F. (1995). Gastric localization of Leishmania in a patient with acquired immunodeficiency syndrome. *APMIS*, **103**: 25-28.
- Gramiccia, M., Gradoni, L., Troiani, M. (1995). Heterogeneity among zymodemes of *Leishmania infantum* from HIV-positive patients with visceral leishmaniasis in South Italy. *FEMS Microbiol. Lett.*, **128**: 33-38.
- Infuso, A., Salamina, G., Moro, M.L. (1995). Proposte per il miglioramento del sistema nazionale di sorveglianza della tubercolosi. *Rass. Patol. Appar. Respir.*, **10**: 117-122.
- Mangione, R., Stroffolini, T., Tosti, M.E., Fragapani, D., Mele, A. (1995). Delayed third hepatitis B vaccine dose and immune response. [Letter]. *Lancet*, **345**: 1111-1112.
- Maroli, M., Khouri, C., Frusteri, L. (1995). Diffusione di *Ixodes ricinus* (Acari: Ixodidae) in Italia. Ecobiologia e ruolo della specie nella trasmissione di patogeni. *G. Ital. Mal. Infett.*, **1** (5): 269-278.

Maroli, M., Mari, A. (1995). L'allergia agli acari della polvere domestica: un problema di sanità pubblica. *Ann. Ist. Super. Sanità*, **31** (3): 343-350.

Maroli, M., Sansoni, L., Bigliocchi, F., Khoury, C., Valsecchi, M. (1995). Reperimento di *Phlebotomus neglectus tonnoir*, 1921 (= *P. major* s.l.) in un focolaio di Leishmaniosi del nord-Italia (Provincia di Verona). *Parassitologia*, **37**: 241-244.

Mele, A., Corona, R., Tosti, M.E., Palumbo, F., Moiraghi, A., Novaco, F., Galanti, C., Bernacchia, R., Ferraro, P. (1995). Beauty treatments and risk of parenterally transmitted hepatitis: results from the hepatitis surveillance system in Italy. *Scand. J. Infect. Dis.*, **27**: 441-444.

Mele, A., Stroffolini, T., Catapano, R., Palumbo, F., Moiraghi, A., Novaco, F. (1995). Incidence of transfusion associated B and non-A,non-B hepatitis in Italy. *Br. Med. J.*, **311**: 846-847.

Migliori, G.B., Spanevello, A., Ballardini, L., Neri, M., Gambarini, C., Moro, M.L., Trnka, L., Raviglione, M.C. and the Varese Tuberculosis Study Group. (1995). Validation of the surveillance system for new cases of tuberculosis in a province of Northern Italy. *Eur. Respir. J.*, **8**: 1252-1258.

Moro, M.L. (1995). Indagini multicentriche in Italia: la standarizzazione (indici prognostici e di gravità). In: *Atti del I Congresso nazionale della Società Italiana di Neonatologia*. Montecatini Terme, 21-24 giugno 1995. p. 141-147.

Moro, M.L. (1995). Que font nos voisins? Italie: des chiffres controversés. *Commun. Partenaires Santé*, **3**: 54-55.

Peragallo, M.S., Sabatinelli, G., Majori, G., Cali, G., Sarnicola, G. (1995). Prevention of malaria among Italian troops in Somalia and Mozambique (1993-1994). *Trans. R. Soc. Trop. Med. Hyg.*, **89**: 302.

Romi, R. (1995). History and updating on the spread of *Aedes albopictus* in Italy. In: Proceedings of the workshop "The geographic spread of *Aedes albopictus* in Europe and the concern among public health authorities". Rome, December 19-20, 1994. *Parassitologia*, **37**: 99-103.

Sabatinelli, G., Majori, G., D'Ancona, F., Casaglia, O. (1995). La malaria in Italia nel 1994. Analisi epidemiologica dei casi confermati emoscopicamente. *G. Ital. Mal. Infett.*, **1** (6): 355-359.

Sagliocca, L., Mele, A., Ferrigno, L., Palumbo, F., Converti, F., Tosti, M.E., Amoroso, P., Manzillo, G. and Hepatitis Collaborating Group. (1995). Case-control study on risk factors for hepatitis A: Naples 1990-1991. *Ital. J. Gastroenterol.*, **27**: 181-184.

Squarcione, S., Sanguedolce, A., Faggiano, F., Quarto, M., Majori, G., Barbuti, S. (1995). Considerations on a fatal case of malaria. *Ann. Ig.*, **7**: 109-113.

Stroffolini, T. (1995). Epidemiologia del carcinoma epatocellulare. *Il Fegato*, **2**: 17-20.

Stroffolini, T. (1995). Epidemiologia dell'HCV: dati nella popolazione generale e nei gruppi a rischio. In: *Il virus dell'epatite C (HCV): l'infezione e la malattia*. A. Craxì, P. Almasio, S. Magrin (Eds). p. 101-114.

Stroffolini, T., Catapano, R., Marzolini, A., Mele, A. and SEIEVA Collaborating Group. (1995). Hospitalization rate and mean days of hospitalization of notified viral hepatitis cases in Italy. *Ital. J. Gastroenterol.*, **27**: 80-82.

Stroffolini, T., Mendivelli, M., Taliani, G., Dambruoro, V., Poliandri, G., Bozza, A., Lecce, R., Clementi, C., Minniti Ippolito, F., Compagnoni, A., De Bac, C. (1995). High prevalence of hepatitis C virus infection in a small central Italian town: lack of evidence of parenteral exposure. *Ital. J. Gastroenterol.*, **27**: 235-238.

Zanetti, A.R., Tanzi, E., Romanò, L., Mele, A. (1995). Epidemiology and prevention of hepatitis type C in Italy. *Res. Virol.*, **146**: 253-259.

Rapporti tecnici:

Mele, A., Cialdea, L., Marzolini, A., Catapano, R., Tosti, M.E., Stroffolini, T. (1995). *SEIEVA. Sistema epidemiologico integrato dell'epatite virale acuta. Rapporto annuale 1993*. Roma, Istituto Superiore di Sanità. (Rapporti ISTISAN, 95/4). 47 p.

Pizzuti, R., Russo, M., Ortolani, R., Lionetti, E., Palumbo, F., Bove, C., Gradoni, L. (1995). Epidemiologia e sorveglianza della Leishmaniosi viscerale in Campania. In: *Seminario nazionale di epidemiologia applicata*. Roma, 30-31 gennaio 1995. Atti a cura di D. Greco, A. De Santi, B. Suligoi. Roma, Istituto Superiore di Sanità. (Rapporti ISTISAN, 95/31). p. 79-85.

Sottoprogetto 5: Meccanismi di virulenza

Annibale, B., Marignani, M., Luzzi, I., Delle Fave, G.F. (1995). Peptic ulcer and duodenal stenosis: role of *Helicobacter pylori* infection. *Ital. J. Gastroenterol.*, **27**: 26-28.

Baldassarri, L., Christensen, G.D., Donelli, G. (1995). Is slime the virulence factor in staphylococcal biomaterial-associated infections? *Microecol. Ther.*, **25**: 103-107.

Blum, G., Falbo, V., Caprioli, A., Hacker, J. (1995). Gene clusters encoding the cytotoxic necrotizing factor type 1, Prs-fimbriae and α -hemolysin form the pathogenicity island II of the uropathogenic *Escherichia coli* strain J96. *FEMS Microbiol. Lett.*, **126**: 189-196.

Caprioli, A., Luzzi, I., Gianviti, A., Rüssmann, H., Karch, H. (1995). Pheno-genotyping of verotoxin 2 (VT2)-producing *Escherichia coli* causing haemorrhagic colitis and haemolytic uraemic syndrome by direct analysis of patients' stools. *J. Med. Microbiol.*, **43**: 348-353.

Cerquetti, M., Luzzi, I., Caprioli, A., Sebastianelli, A., Mastrantonio, P. (1995). Role of *Clostridium difficile* in childhood diarrhea. *Pediatr. Infect. Dis. J.*, **14** (7): 598-603.

Cerquetti, M., Sebastianelli, A., Molinari, A., Gelosia, A., Donelli, G., Mastrantonio, P. (1995). Protein subunits composing surface layer of *C. difficile*. *Microecol. Ther.*, **25**: 174-177.

Christensen, G.D., Baldassarri, L., Simpson, W.A. (1995). Colonization of prosthetic materials by coagulase-negative staphylococci. *Microecol. Ther.*, **25**: 75-91.

Christensen, G.D., Baldassarri, L., Simpson, W.A. (1995). Methods for studying microbial colonization of plastics. In: *Methods in enzymology. Adhesion of microbial pathogens*. R.J. Doyle, I. Ofek (Eds). Orlando (FL), Academic Press. Vol. **253**, p. 477-500.

Conedera, G., Caprioli, A., Marangon, S., Luzzi, I., Ferrè, N. (1995). Infezioni da *Escherichia coli* produttori di verocitotossine. *SUMMA*, **7**: 65-68.

Donelli, G., Fiorentini, C., Falzano, L., Fabbri, A., Boquet, P. (1995). *In vitro* studies of the mechanism of action of the cytotoxic necrotizing factor 1 from pathogenic *E. coli*. *Microecol. Ther.*, **23**: 107-110.

- Dunn, S.J., Fiore, L., Werner, R.L., Cross, T.L., Broome, R.L., Ruggeri, F.M., Greenberg, H.B. (1995). Immunogenicity, antigenicity, and protection efficacy of baculovirus expressed VP4 trypsin cleavage products, VP5(1)* and VP8* from rhesus rotavirus. *Arch. Virol.*, **140**: 1969-1978.
- Fabbri, A., Fiorentini, C., Fasano, A., Kaper, J.B., Donelli, G. (1995). *Vibrio cholerae* zonula occludens toxin (ZOT) reorganizes actin in cultured epithelial cells. *Microecol. Ther.*, **25**: 270-273.
- Fantasia, M. (1995). Epidemiologia delle salmonellosi in Italia. In: *Salmonellosi umane ed animali: epidemiologia, patogenicità e biotecnologia*. Sassari, Gallizzi. (Quaderni dell'Istituto Zooprofilattico Sperimentale della Sardegna; 8). p. 133-139.
- Fasano, A., Fiorentini, C., Donelli, G., Uzzau, S., Kaper, J.B., Margaretten, K., Ding, X., Guandalini, S., Comstock, L., Goldblum, S.E. (1995). Zonula occludens toxin modulates tight junctions through protein kinase C-dependent actin reorganization, *in vitro*. *J. Clin. Invest.*, **96**: 710-720.
- Fiore, L., Dunn, S.J., Ridolfi, B., Ruggeri, F.M., Mackow, E.R., Greenberg, H.B. (1995). Antigenicity, immunogenicity and passive protection induced by immunization of mice with baculovirus-expressed VP7 protein from rhesus rotavirus. *J. Gen. Virol.*, **76**: 1981-1988.
- Fiorentini, C., Boquet, P., Donelli, G. (1995). Interaction of cytotoxic necrotizing factor type 1 (CNF1) from pathogenic *E. coli* with mammalian cells. *Microecol. Ther.*, **25**: 256-259.
- Fiorentini, C., Donelli, G., Matarrese, P., Fabbri, A., Paradisi, S., Boquet, P. (1995). *Escherichia coli* cytotoxic necrotizing factor 1: evidence for induction of actin assembly by constitutive activation of the p21 Rho GTPase. *Infect. Immun.*, **63** (10): 3936-3944.
- Goldoni, P., Castellani Pastoris, M., Cattani, L., Peluso, C., Sinibaldi, L., Orsi, N. (1995). Effect of monensin on the invasiveness and multiplication of *Legionella pneumophila*. *J. Med. Microbiol.*, **42**: 269-275.
- Luzzi, I., Caprioli, A. (1995). Coliti batteriche. Nuovi e vecchi agenti eziologici. *Gastroenterol. Int.* (Ed. Italiana), **6** (2): 72-81.
- Luzzi, I., Tozzi, A.E., Rizzoni, G., Niccolini, A., Benedetti, I., Minelli, F., Caprioli, A. (1995). Detection of serum antibodies to the lipopolysaccharide of *Escherichia coli* O103 in patients with hemolytic-uremic syndrome. [Letter]. *J. Infect. Dis.*, **171**: 514-515.

Mastrantonio, P., Pantosti, A., Cerquetti, M., Molinari, A., Gelosia, A., Donelli, G. (1995). *Clostridium difficile* and its surface proteins. *Microecol. Ther.*, **23**: 94-101.

Matarrese, P., Paradisi, S., Fabbri, A., Fiorentini, C., Donelli, G. (1995). A toxic factor from pathogenic *E. coli* strains enhances actin assembly in epithelial cultured cells. *J. Exp. Clin. Cancer Res.*, **14** (Suppl.1): 78-79.

Simpson, W.A., Baldassarri, L., Christensen, G.D. (1995). The role of slime in the colonization of medical devices. In: *Infection control symposium: influence of medical devices design*. Conference proceedings. Bethesda (MD, USA), June 29-30 and July 1, 1992. Rockville (MD), US Department of Health and Human Services, Public Health Service, Food and Drug Administration. p. 12-26.

Superti, F., Diamanti, E., Giovannangeli, S., Dobi, V., Xhelili, L., Donelli, G. (1995). Electropherotypes of rotavirus strains causing gastroenteritis in infants and young children in Tirana, Albania, from 1988 to 1991. *Acta Virol.*, **39**: 257-261.

Superti, F., Donelli, G. (1995). Characterization of SA-11 rotavirus receptorial structures on the human colon carcinoma cell line HT-29. *J. Med. Virol.*, **47**: 421-428.

Superti, F., Marziano, M.L., Donelli, G., Marchetti, M., Seganti, L. (1995). Enhancement of rotavirus infectivity by saturated fatty acids. *Comp. Immun. Microbiol. Infect. Dis.*, **18** (2): 129-135.

Voglino, M.C., Baldassarri, L., Gelosia, A., Di Rosa, R., Germinario, E., Fiocca, F., Basoli, A., Donelli, G. (1995). Caratterizzazione microbiologica e morfologica di endoprotesi biliari espiantate in seguito ad occlusione. In: *Atti del Convegno "Giornata SIB '95"*. Novara, 30 giugno 1995. M. Cannas, P. Ferruti (Eds). Società Italiana Biomateriali. p. 57-60.

Rapporti tecnici:

Baldassarri, L., Gelosia, A., Donelli, G. (1995). Interazioni tra materiali polimerici e microorganismi. In: *Biocompatibilità di dispositivi medici impiantabili: interazione dei sistemi biologici con i biomateriali. Parte I*. A cura di L. Baldassarri, S. Caiazza, G. Donelli. Roma, Istituto Superiore di Sanità. (Rapporti ISTISAN, 95/20). p. 147-153.

Biocompatibilità di dispositivi medici impiantabili: interazione dei sistemi biologici con i biomateriali. Parte I. (1995). A cura di L. Baldassarri, S. Caiazza, G. Donelli. Roma, Istituto Superiore di Sanità. (Rapporti ISTISAN, 95/20). 187 p.

Biocompatibilità di dispositivi medici impiantabili: interazione dei sistemi biologici con i biomateriali. Parte II. (1995). A cura di L. Baldassarri, S. Caiazza, G. Donelli. Roma, Istituto Superiore di Sanità. (Rapporti ISTISAN, 95/20 Pt. 2). 60 p.

Sottoprogetto 6: Modelli animali

Adone, R., Ciuchini, F., Bianchi, R., Piccininno, G., Pistoia, C. (1995). Production and characterization of rabbit anti-idiotypic antibodies directed against a murine monoclonal anti-*B. abortus* antibodies. *Vet. Res. Commun.*, **19**: 457-461.

Bruni, R., Argentini, C., D'Ugo, E., Giuseppetti, R., Rapicetta, M. (1995). A PCR-based strategy for rapid mapping of hepadnavirus integrated sequences in hepatocellular carcinomas. *J. Virol. Methods*, **52**: 347-360.

Bruni, R., Argentini, C., D'Ugo, E., Giuseppetti, R., Ciccaglione, A.R., Rapicetta, M. (1995). Recurrence of WHV integration in the b3n locus in woodchuck hepatocellular carcinoma. *Virology*, **214**: 229-234.

Cassone, A., Boccanera, M., Adriani, D., Santoni, G., De Bernardis, F. (1995). Rats clearing a vaginal infection by *Candida albicans* acquire specific, antibody-mediated resistance to vaginal reinfection. *Infect. Immun.*, **63**: 2619-2625.

Cassone, A., De Bernardis, F., Pontieri, E., Carruba, G., Girmenia, C., Martino, P., Rodriguez, F., Quintos, G., Ponton, J. (1995). Biotype diversity of *Candida parapsilosis* and its relationship to the clinical source and experimental pathogenicity. *J. Infect. Dis.*, **171**: 967-975.

De Bernardis, F., Cassone, A., Sturtevant, J., Calderone, R. (1995). Expression of *Candida albicans* SAP-1 and SAP-2 in experimental vaginitis. *Infect. Immun.*, **63**: 1887-1892.

Dormont, D., Le Grand, R., Cranage, M., Greenaway, P., Hunsmann, G., Stahl Hennig, C., Rossi, G.B., Verani, P., Stott, J., Kitchin, P., Osterhaus, A., de Vries, P., Kurth, R., Norley, S., Heeney, J., Biberfeld, G., Putkonen, P. (1995). Protection of macaques against simian immunodeficiency virus infection with inactivated vaccines: comparison of adjuvants, doses and challenge viruses. *Vaccine*, **13**: 295-300.

Fiume, L., Di Stefano, G., Busi, C., Mattioli, A., Rapicetta, M., Giuseppetti, R., Ciccaglione, A.R., Argentini, C. (1995). Inhibition of woodchuck hepatitis virus replication by adenine arabinoside monophosphate coupled to lactosaminated poly-l-lysine and administered by intramuscular route. *Hepatology*, **22** (4): 1072-1077.

Gomez Morales, M.A., Ausiello, C.M., Urbani, F., Pozio, E. (1995). Crude extract and recombinant protein of *Cryptosporidium parvum* oocysts induce proliferation of human peripheral blood mononuclear cells *in vitro*. *J. Infect. Dis.*, **172**: 211-216.

Guarino, A., Berni Canani, R., Casola, A., Pozio, E., Russo, R., Bruzzese, E., Fontana, M., Rubino, A. (1995). Human intestinal cryptosporidiosis: secretory diarrhea and enterotoxic activity in CaCo-2 cells. *J. Infect. Dis.*, **171**: 976-983.

Sottoprogetto 7: Tecniche diagnostiche avanzate

Angelico, M., Gandin, C., Pescarmona, E., Rapicetta, M., Del Vecchio, C., Bini, A., Spada, E., Baroni, C.D., Capocaccia, L. (1995). Recombinant interferon- α and ursodeoxycholic acid *versus* interferon- α alone in the treatment of chronic hepatitis C: a randomized clinical trial with long-term follow up. *Am. J. Gastroenterol.*, **90** (2): 263-269.

Argentini, C., D'Ugo, E., Bruni, R., Gluck, R., Giuseppetti, R., Rapicetta, M. (1995). Sequence and phylogenetic analysis of VP1 gene in two cell culture-adapted HAV strains from a unique pathogenic isolate. *Virus Genes*, **10** (1): 37-43.

Bandi, C., La Rosa, G., Bardin, M.G., Damiani, G., Comincini, S., Tasciotti, L., Pozio, E. (1995). Random amplified polymorphic DNA fingerprints of the eight taxa of *Trichinella* and their comparison with allozyme analysis. *Parasitology*, **110**: 401-407.

Beneduce, F., Pisani, G., Divizia, M., Panà, A., Morace, G. (1995). Complete nucleotide sequence of a cytopathic hepatitis A virus strain isolated in Italy. *Virus Res.*, **36**: 299-309.

Bernard, E., Ozouf, N., Toussaint-Gari, M., Marty, P., Pozio, E., Le Fichoux, Y., Dellamonica, P. (1995). Deux épidémies familiales de trichinose. *Méd. Mal. Infect.*, **25**: 611-614.

Budka, H., Aguzzi, A., Brown, P., Brucher, J.M., Bugiani, O., Collinge, J., Diringer, H., Gullotta, F., Haltia, M., Hauw, J.J., Ironside, J.W., Kretzschmar, H.A., Lantos, P.L., Masullo, C., Pocchiari, M., Schlote, W., Tateishi, J., Will, R.G. (1995). Tissue handling in suspected Creutzfeldt-Jakob disease (CJD) and other human spongiform encephalopathies (Prion diseases). *Brain Pathol.*, **5**: 319-322.

Chiesi, A., Viglianti, M., Weimer, L.E., Vella, S. (1995). Neuro-miopatie in corso di infezione da HIV. *G. Ital. AIDS*, **6** (3): 95-105.

D'Amelio, R., Stroffolini, T., Matricardi, P.M., Nisini, R., Tosti, M.E., Trematerra, M., Villano, U., Rapicetta, M., Mele, A. (1995). Low prevalence of anti-HCV antibodies among Italian air force recruits. *Scand. J. Infect. Dis.*, **27**: 12-14.

Delasnerie-Laupretre, N., Poser, S., Pocchiari, M., Wientjens, D.P.W.M., Will, R. (1995). Creutzfeldt-Jakob disease in Europe. [Letter]. *Lancet*, **346**: 898.

Delfino, D., Chiofalo, M.S., Riggio, G., Angelici, M.C., Gramiccia, M., Gradoni, L., Iannello, D. (1995). Induction of interleukin 1 α in murine macrophages infected *in vitro* with different species and strains of Leishmania. *Microb. Pathogen.*, **18**: 73-80.

De Luca, A., Tamburini, E., Ortona, E., Mencarini, P., Margutti, P., Antinori, A., Visconti, E., Siracusano, A. (1995) Variable efficiency of three primer pairs for the diagnosis of *Pneumocystis carinii* pneumonia by the polymerase chain reaction. *Mol. Cell. Probes*, **9**: 333-340.

Ercoli, L., Sarmati, L., El-Sawaf, G., Cochi, S., Lanti, T., Iudicone, P., Guglielmetti, M., Giannini, G., Galluzzo, C., Tomino, C., Andreoni, M., Vella, S. (1995). Plasma viremia titration and RNA quantitation in ICD-p24 negative HIV type-1 infected patients. *AIDS Res. Human Retroviruses*, **11** (10): 1203-1207.

Floridia, M., Vella, S. (1995). Nuovi farmaci per l'AIDS. Criteri metodologici, coinvolgimento dell'opinione pubblica e consenso informato. In: *AIDS. Problemi sanitari, sociali e morali*. A cura di S. Leone. Roma, Armando Editore. p. 93-104.

Gramiccia, M., Gradoni, L., Troiani, M. (1995). Heterogeneity among zymodemes of *Leishmania infantum* from HIV-positive patients with visceral leishmaniasis in South Italy. *FEMS Microbiol. Lett.*, **128**: 33-38.

Guarda, F., Castiglione, F., Agrimi, U., Cardone, F., Caracappa, S., Pocchiari, M. (1995). Bovine spongiform encephalopathy in Italy. *Eur. J. Vet. Pathol.*, **1** (2): 71-72.

Ingrossi, L., Ladogana, A., Pocchiari, M. (1995). Congo red prolongs the incubation period of scrapie-infected hamsters. *J. Virol.*, **69** (1): 506-508.

Ladogana, A., Liu, Q., Xi, Y.G., Pocchiari, M. (1995). Proteinase-resistant protein in human neuroblastoma cells infected with brain material from Creutzfeldt-Jakob patient. *Lancet*, **345**: 594-595.

Ortona, E., Margutti, P., De Luca, A., Tamburrini, E., Visconti, E., Siracusano, A. (1995). Genetic variability in different *Pneumocystis* isolates from man and rats. *Microbiologica*, **18**: 335-340.

Ortona, E., Siracusano, A., Castro, A., Riganò, R., Mühlischlegel, F., Ioppolo, S., Notargiacomo, S., Frosch, M. (1995). Use of a monoclonal antibody against the antigen B of *Echinococcus granulosus* for purification and detection of antigen B. *Appl. Parasitol.*, **36** (3): 220-225.

Pane, F., Buttò, S., Gobbo, M.L., Franco, M., Butteroni, C., Pastore, L., Maiorano, G., Foggia, A., Tullio Cataldo, P., Guarino, A., Tamburrini, E., Solinas, S., Piazza, M., Vecchio, G., Verani, P., Salvatore, F. (1995). Direct detection of proviral gag segment of human immunodeficiency virus in peripheral blood lymphocytes by colorimetric PCR assay as a clinical laboratory tool applied to different at-risk populations. *J. Clin. Microbiol.*, **33** (3): 641-647.

Pisani, G., Beneduce, F., Gauss-Müller, V., Morace, G. (1995). Recombinant expression of hepatitis A virus protein 3A: interaction with membranes. *Biochem. Biophys. Res. Commun.*, **221** (2): 627-638.

- Pozio, E. (1995). Ecology of *Trichinella* parasites in Europe on the threshold of the third millennium. *Helminthologia*, **32**: 111-116.
- Riganò, R., Profumo, E., Di Felice, G., Ortona, E., Teggi, A., Siracusano, A. (1995). *In vitro* production of cytokines by peripheral blood mononuclear cells from hydatid patients. *Clin. Exp. Immunol.*, **99**: 433-439.
- Riganò, R., Profumo, E., Ioppolo, S., Notargiacomo, S., Ortona, E., Teggi, A., Siracusano, A. (1995). Immunological markers indicating the effectiveness of pharmacological treatment in human hydatid disease. *Clin. Exp. Immunol.*, **102**: 281-285.
- Salvatore, M., Seeber, A.C., Nacmias, B., Petraroli, R., D'Alessandro, M., Sorbi, S., Pocchiari, M. (1995). Apolipoprotein E in sporadic and familial Creutzfeldt-Jakob disease. *Neurosci. Lett.*, **199**: 95-98.
- Vella, S. (1995). HIV pathogenesis and treatment strategies. *J. AIDS Human Retrovirol.*, **10** (Suppl. 1): S20-S23.
- Vella, S. (1995). Immunological and virological markers in HIV infection. *AIDS Clin. Care*, **7** (5): 37-40.
- Vella, S. (1995). Rationale and experience with reverse transcriptase inhibitors and protease inhibitors. *J. AIDS Human Retrovirol.*, **10** (Suppl. 1): S58-S61.
- Vella, S. (1995). Update on antiretroviral therapy of HIV infection. *J. Biol. Regul. Homeostat. Agents*, **8** (3): 71-76.
- Vella, S. (1995). Update on HIV protease inhibitors. *AIDS Clin. Care*, **7** (10): 82-88.
- Vella, S., Floridia, M. (1995). La resistenza dell'HIV-1 agli antiretrovirali. *G. Ital. Mal. Infett.*, **1** (2): 73-84.
- Vella, S., Floridia, M. (1995). Terapia antiretrovirale dell'infezione da HIV. In: *Eroina, infezione da HIV e patologie correlate*. A cura di G. Serpelloni, G. Rezza, M. Gomma. Verona, Leonard Edizioni. p. 645-665.
- Vella, S., Floridia, M., Pirillo, M.F., Ricciardulli, D. (1995). Viral resistance patterns: implications for combination therapy. *HIV and AIDS Current Trends*, **1** (3): 3-6.

Vella, S., Giuliano, M., Floridia, M., Chiesi, A., Tomino, C., Seeber, A., Barcherini, S., Bucciardini, R., Mariotti, S. (1995). Effect of sex, age and transmission category on the progression to AIDS and survival of zidovudine-treated symptomatic patients. *AIDS*, **9**: 51-56.

Rapporti tecnici:

III Seminario di aggiornamento sull'epatite da HCV: diagnosi, epidemiologia, prevenzione e terapia. (1995). Istituto Superiore di Sanità. Roma, 23-24 gennaio 1995. Atti a cura di M. Rapicetta. (Rapporti ISTISAN, 95/1). 227 p.

Altre ricerche afferenti al Progetto "Patologia infettiva"

Arcieri, R., Schinaia, N., Farchi, F., Sciorelli, G. (1995). Caratteristiche epidemiologiche dei donatori di sangue HIV-positivi in Italia. *La Trasfusione del Sangue*, **40** (5): 269-275.

Buonaguro, L., Del Gaudio, E., Monaco, M., Greco, D., Corti, P., Beth-Giraldo, E., Buonaguro, F.M., Giraldo, G., Tamburini, M., Castello, G., Declich, S., Lukwiya, M., Sempala, G., Biryamwaho, B., Downing, R. (1995). Heteroduplex mobility assay and phylogenetic analysis of V3 region sequences of HIV-1 isolates from Gulu-Northern Uganda. *J. Virol.*, **69** (12): 7971-7981.

Cozzi Lepri, A., Pezzotti, P., Phillips, A.N., Petrucci, A., Rezza, G. (1995). Clinical staging system for AIDS patients. [Letter]. *Lancet*, **346**: 1103.

Dorrucci, M., Rezza, G., Vlahov, D., Pezzotti, P., Sinicco, A., Nicolosi, A., Lazzarin, A., Galai, N., Gafà, S., Pristerà, R., Angarano, G. (1995). Clinical characteristics and prognostic value of acute retroviral syndrome among injecting drug users. *AIDS*, **9**: 597-604.

Giuliani, M. (1995). La sorveglianza e il controllo delle malattie a trasmissione sessuale. In: *Atti del Corso "Le malattie infettive riemergenti"*. Roma, 5-7 aprile 1995. p. 43-55.

Giuliani, M., Suligoi, B. (1995). Le malattie sessualmente trasmesse: la realtà italiana. *La Colposcopia in Italia*, **2**: 4-7.

Rezza, G. (1995). Malattia da HIV. Periodo di incubazione e suoi determinanti. *G. Ital. Mal. Infett.*, **1** (4): 199-205.

Rezza, G., De Rose, A. (1995). Tossicodipendenza e infezione da HIV in Italia: i risultati di un sistema di sorveglianza nazionale basato sui servizi pubblici. *Fed. Med.*, **4** (Suppl.13): 41-45.

Sabbatani, S., Giorgi, L., Pipitone, E., Marri, E., Rezza, G. (1995). Cause di morte in una coorte di tossicodipendenti di Bologna: 1977-1994. *Boll. Farmacodipendenze Alcoolismo*, **3**: 25-28.

Sabbatani, S., Pipitone, E., Marri, E., Giorgi, L., Sgnaolin, P., Rezza, G. (1995). Valutazione delle giornate di degenza e stima dei costi relativi di una coorte di tossicodipendenti HIV positivi e negativi. *Le Infezioni in Medicina*, **2**: 81-90.

Spizzichino, L., Gattari, P., Zaccarelli, M., Casella, P., Valenzi, C., Rezza, G. (1995). HIV infection among injecting drug users from North Africa and the Middle East living in Rome. *Addict. Res.*, **1** (3): 57-62.

Suligoi, B. (1995). Attualità in tema di malattie sessualmente trasmesse. In: *Atti del Corso "Le malattie infettive riemergenti"*. Roma, 5-7 aprile 1995. p. 33-35.

Rapporti tecnici:

Lavreys, L., Declercq, E. (1995). *Networks for the surveillance of HIV infections in sentinel population: a concerted action project of the European Communities (DG XII)*. Brussels. Report June 1990-December 1994. Brussels, Institute of Hygiene Epidemiology. (Report D/1995/2505/11).

[Per l'Italia hanno partecipato: B. Suligoi, M. Giuliani].

**Progetto:
Patologia non infettiva**

Sottoprogetto I: Fisiopatologia cellulare

Ashany, D., Elkorn, K.B., Migliaccio, G., Migliaccio, A.R. (1995). Functional characterization of lymphoid cells generated in serum-deprived culture stimulated with stem cell factor and interleukin 7 from normal and autoimmune mice. *J. Cell Physiol.*, **164**: 562-570.

Barone, P., Ragona, R., Viti, V. (1995). Variance estimation of damping factors by a Monte Carlo Markov Chain method. In: *Proceedings of the Society of Magnetic Resonance and the European Society for Magnetic Resonance in Medicine and Biology*. Nice (France), August 19-25, 1995. Vol. **3**, p. 1945.

Coccia, E.M., Stellacci, E., Orsatti, R., Testa, U., Battistini, A. (1995). Regulation of ferritin H-chain expression in differentiating Friend leukemia cells. *Blood*, **86**: 1570-1579.

Condorelli, G.L., Testa, U., Valtieri, M., Vitelli, L., De Luca, A., Barberi, T., Montesoro, E., Campisi, S., Giordano, A., Peschle, C. (1995). Modulation of retinoblastoma gene in normal adult hematopoiesis: peak expression and functional role in advanced erythroid differentiation. *Proc. Natl Acad. Sci. USA*, **92**: 4808-4812.

Condorelli, G.L., Vitelli, L., Valtieri, M., Marta, I., Montesoro, E., Lulli, V., Baer, R., Peschle, C. (1995). Coordinate expression and developmental role of Id2 protein and TAL1/E2A heterodimer in erythroid progenitor differentiation. *Blood*, **86** (1): 164-175.

Dallocchio, F., Tomasi, M., Bellini, T. (1995). Activation of the Sendai virus protein by receptor binding. *Biochem. Biophys. Res. Commun.*, **208** (1): 36-41.

EEC Concerted Research Project. (1995). Quality assessment in *in vivo* NMR spectroscopy: II. A protocol for quality assessment. Prepared by W.M.M.J. Bovée, S.F. Keevil, M.O. Leach, F. Podo. *Magn. Reson. Imaging*, **13** (1): 123-129.

Gabbianelli, M., Pelosi, E., Montesoro, E., Valtieri, M., Luchetti, L., Samoggia, P., Vitelli, L., Barberi, T., Testa, U., Lyman, S., Peschle, C. (1995). Multi-level effects of flt3 ligand on human hematopoiesis: expansion of putative stem cells and proliferation of granulomonocytic progenitors/monocytic precursors. *Blood*, **86** (5): 1661-1670.

Giampaolo, A., Pelosi, E., Valtieri, M., Montesoro, E., Sterpetti, P., Samoggia, P., Camagna, A., Mastroberardino, G., Gabbianelli, M., Testa, U., Peschle, C. (1995). HOXB gene expression and function in differentiating purified hematopoietic progenitors. *Stem Cells*, **13**(Suppl. 1): 90-105.

Guerriero, R., Testa, U., Gabbianelli, M., Mattia, G., Montesoro, E., Macioce, G., Pace, A., Ziegler, B., Hassan, H.J., Peschle, C. (1995). Unilineage megakaryocytic proliferation and differentiation of purified hematopoietic progenitors in serum-free liquid culture. *Blood*, **86** (10): 3725-3736.

Guidoni, L., Viti, V., Guastadisegni, C., Balduzzi, M., Vittozzi, L. (1995). NMR characterization of a mitochondrial phospholipid adduct produced by chloroform metabolism *in vivo*. In: *Proceedings of the Society of Magnetic Resonance and the European Society for Magnetic Resonance in Medicine and Biology*. Nice (France), August 19-25, 1995. Vol. **3**, p. 1740.

Harokopakis, E., Childers, N.K., Michalek, S.M., Zhang, S.S., Tomasi, M. (1995). Conjugation of cholera toxin or its B subunit to liposomes for targeted delivery of antigens. *J. Immunol. Methods*, **185**: 31-42.

Howe, F.A., Canese, R., Podo, F., Vikhoff, B., Slotboom, J., Griffiths, J.R., Henriksen, O., Bovée, W.M.M.J. (1995). Quality assessment in *in vivo* NMR spectroscopy: V. Multicentre evaluation of prototype test objects and protocols for performance assessment in small bore MRS equipment. *Magn. Reson. Imaging*, **13** (1): 159-167.

Ippoliti, R., Lendaro, E., D'Agostino, I., Fiani, M.L., Guidarini, D., Vestri, S., Benedetti, P.A., Brunori, M. (1995). A chimeric saporin-transferrin conjugate compared to ricin toxin: role of the carrier in intracellular transport and toxicity. *FASEB J.*, **9**: 1220-1225.

Keevil, S.F., Barbiroli, B., Collins, D.J., Danielsen, E.R., Hennig, J., Henriksen, O., Leach, M.O., Longo, R., Lowry, M., Moore, C., Moser, E., Segebarth, C., Bovée W.M.M.J., Podo, F. (1995). Quality assessment in *in vivo* NMR spectroscopy: IV. A multicentre trial of test objects and protocols for performance assessment in clinical NMR spectroscopy. *Magn. Reson. Imaging*, **13** (1): 139-157.

Labbaye, C., Valtieri, M., Barberi, T., Meccia, E., Masella, B., Pelosi, E., Condorelli, G.L., Testa, U., Peschle, C. (1995). Differential expression and functional role of GATA-2, NF-E2 and GATA-1 in normal adult hematopoiesis. *J. Clin. Invest.*, **95**: 2346-2358.

Leach, M.O., Collins, D.J., Keevil, S.F., Rowland, I., Smith, M.A., Henriksen, O., Bovée, W.M.M.J., Podo, F. (1995). Quality assessment in *in vivo* NMR spectroscopy: III. Clinical test objects: design, construction and solutions. *Magn. Reson. Imaging*, **13** (1): 131-137.

Mallozzi, C., Di Stasi, A.M.M., Minetti, M. (1995). Free radicals induce reversible membrane-cytoplasm translocation of glyceraldehyde-3-phosphate dehydrogenase in erythrocytes. *Arch. Biochem. Biophys.*, **321** (2): 345-352.

Pacifici, R., Minetti, M., Zuccaro, P., Pietraforte, D. (1995). Morphine affects cytostatic activity of macrophages by the modulation of nitric oxide release. *Int. J. Immunopharmacol.*, **17** (9): 771-777.

Pietraforte, D., Mallozzi, C., Scorza, G., Minetti, M. (1995). Role of thiols in the targeting of S-nitroso thiols to red blood cells. *Biochemistry*, **34** (21): 7177-7185.

Pietraforte, D., Tritarelli, E., Testa, U., Minetti, M. (1995). Induction of nitric oxide release by gp 120 HIV-1 envelope glycoprotein involves the Mannan receptor of human blood macrophages. In: *The biology of nitric oxide. 4. Enzymology, biochemistry and immunology*. S. Moncada, M. Feelisch, R. Busse, E.A. Higgs (Eds). Portland Press Proceedings. p. 374-377.

Podo, F., Bovée, W.M.M.J., De Certaines, J., Leibfritz, D., Orr, J.S. (1995). Quality assessment in *in vivo* NMR spectroscopy: I. Introduction, objectives and activities. *Magn. Reson. Imaging*, **13** (1): 117-121.

Rosi, A., Guidoni, L., Luciani, A.M., Viti, V. (1995). Monitoring by ^{23}Na NMR of intracellular sodium concentration as a function of growth in cultured HeLa cells. In: *Proceedings of the Society of Magnetic Resonance and the European Society for Magnetic Resonance in Medicine and Biology*. Nice (France), August 19-25, 1995. Vol. 2, p. 1738.

Rubinstein, P., Dobrila, L., Rosenfield, R.E., Adamson, J.W., Migliaccio, G., Migliaccio, A.R., Taylor, P.E., Stevens, C.E. (1995). Processing and cryopreservation of placental/umbilical cord blood for unrelated bone marrow reconstitution. *Proc. Natl Acad. Sci. USA*, **92**: 10119-10122.

Testa, U., Conti, L., Sposi, N.M., Varano, B., Tritarelli, E., Malorni, W., Rainaldi, G., Peschle, C., Belardelli, F., Gessani, S. (1995). IFN- β selectively down regulates transferrin receptor expression in human peripheral blood macrophages by a post-translational mechanism. *J. Immunol.*, **155**: 427-435.

Viti, V., Ragona, R., Guidoni, L., Barone, P., Ricci, R., Barbarella, G. (1995). Quantification with modified Prony method of macromolecule and metabolite signals of *in vivo* ^1H NMR spectra from patients with brain pathologies. In: *Proceedings of the Society of Magnetic Resonance and the European Society for Magnetic Resonance in Medicine and Biology*. Nice (France), August 19-25, 1995. Vol. 3, p. 1944.

Sottoprogetto 2: Immunologia

Afferni, C., Pini, C., Tinghino, R., Palumbo, S., Biocca, M.M., Bruno, G., Mari, A., Di Felice, G. (1995). Use of monoclonal antibodies in the standardization of *Parietaria judaica* allergenic extracts. *Biologicals*, **23**: 239-247.

Arancia, G., Molinari, A., Crateri, P., Stringaro, A., Ramoni, C., Dupuis, M.L., Gomez, M.J., Torosantucci, A., Cassone, A. (1995). Noninhibitory binding of human interleukin-2-activated natural killer cells to the germ tube forms of *Candida albicans*. *Infect. Immun.*, **63**(1): 280-288.

Boirivant, M., De Maria, R., Pica, R., Testi, R., Pallone, F., Strober, W. (1995). Human lamina propria mononuclear cells (LPMC) apoptosis in relation to different activation pathways. *Clin. Immunol. Immunopharmacol.*, **76**: S113.

Burgio, V.L., Fais, S., Boirivant, M., Perrone, A., Pallone, F. (1995). Peripheral monocytes and "naive" T cells recruitment and activation in Crohn's disease. *Gastroenterology*, **109**: 1029-1038.

Cianfriglia, M., Romagnoli, G., Tombesi, M., Poloni, F., Falasca, G., Di Modugno, F., Castagna, M., Chersi, A. (1995). P-glycoprotein epitope mapping. II. The murine monoclonal antibody MM6.15 to human multidrug-resistant cells binds with three distinct loops in the MDR1-P-glycoprotein extracellular domain. *Int. J. Cancer*, **61**: 142-147.

D'Argenio, G., Biancone, L., Cosenza, V., Della Valle, N., D'Armiento, F.P., Boirivant, M., Pallone, F., Mazzacca, G. (1995). Transglutaminases in Crohn's disease. *Gut*, **37**: 690-695.

Federico, R., Pini, C., Raiola, A., Tinghino, R., Angelini, R. (1995). Immunological cross reactivity of plant glycoproteins: maize polyamine oxidase, a cell wall glycoprotein. *Physiol. Mol. Biol. Plants*, **1** (1): 5-12.

Grimaldi, S., Giuliani, A., Giuliani, A., Ferroni, L., Lisi, A., Santoro, N., Pozzi, D. (1995). Engineered liposomes and virosomes for delivery of macromolecules. *Res. Virol.*, **146**: 289-293.

von Hunolstein, C., Efstratiou, A., La Valle, R., Gentili, G., Pestalozza, S., Mascellino, M.T., Rappuoli, R., Orefici, G., Cassone, A. (1995). An imported fatal case of diphtheria in Italy. *Eur. J. Clin. Microbiol. Infect. Dis.*, **14**: 828-830.

Ludescher, C., Eisterer, W., Hilbe, W., Gotwald, M., Hofmann, J., Zabernigg, A., Cianfriglia, M., Thaler, J. (1995). Low frequency of activity of P-glycoprotein (P-170) in acute lymphoblastic leukemia compared to acute myeloid leukemia. *Leukemia*, **9**: 350-356.

Lucarelli, S., Frediani, T., Zingoni, A.M., Ferruzzi, F., Giardini, O., Quintieri, F., Barbato, M., D'Eufemia, P., Cardi, E. (1995). Food allergy and infantile autism. *Panminerva Med.*, **45**: 93-97.

Luzzati, A.L., Giacomini, E., Giordani, L. (1995). Evaluation of the immunotoxicity of antiretroviral drugs using an *in vitro* method for the induction and measurement of a specific antibody response in human peripheral blood lymphocytes. *ATLA*, **23**: 191-196.

Pallone, F., Fais, S., Boirivant, M. (1995). The interferon system in inflammatory bowel disease. In: *Cytokines in inflammatory bowel disease*. C. Fiocchi (Ed.). R.G. Landes Company Publisher. Chapter 4, p. 57-68.

Petrini, C., Polichetti, A., Ramoni, C., Vecchia, P. (1995). Campi elettrici e magnetici a frequenze estremamente basse e sistema immunitario. *Ann. Ist. Super Sanità*, **31** (3): 369-380.

Poloni, F., Romagnoli, G., Cianfriglia, M., Felici, F. (1995). Isolation of antigenic mimics of MDR1-P-glycoprotein by phage-displayed peptides libraries. *Int. J. Cancer*, **61**: 727-731.

Ramoni, C., Dupuis, M.L., Vecchia, P., Polichetti, A., Petrini, C., Bersani, F., Capri, M., Cossarizza, A., Franceschi, C., Grandolfo, M. (1995). Human natural killer cytotoxic activity is not affected by *in vitro* exposure to 50-Hz sinusoidal magnetic fields. *Int. J. Radiat. Biol.*, **68** (6): 693-705.

Rivabene, R., Viora, M., Matarrese, P., Rainaldi, G., D'Ambrosio, A., Malorni, W. (1995). N-acetyl-cysteine enhances cell adhesion properties of epithelial and lymphoid cells. *Cell. Biol. Int.*, **19** (8): 681-686.

Sallusto, F., Cella, M., Danieli, C., Lanzavecchia, A. (1995). Dendritic cells use macropinocytosis and the mannose receptor to concentrate macromolecules in the major histocompatibility complex class II compartment: downregulation by cytokines and bacterial products. *J. Exp. Med.*, **182**: 389-400.

Sozzani, S., Sallusto, F., Luini, W., Zhou, D., Piemonti, L., Allavena, P., Van Damme, J., Valitutti, S., Lanzavecchia, A., Mantovani, A. (1995). Migration of dendritic cells in response to formyl peptides, C5a, and a distinct set of chemokines. *J. Immunol.*, **155**: 3292-3295.

Viora, M., Camponeschi, B. (1995). Down-regulation of interleukin-2 receptor gene activation and protein expression by dideoxynucleoside analogs. *Cell. Immunol.*, **163**: 289-295.

Wirz, M., Puccinelli, M., Mele, C., Gentili, G. (1995). Immunity to diphtheria in the 4-70 year age group in Italy. *Vaccine*, **13** (8): 771-773.

Sottoprogetto 3: Malattie ereditarie ed errori congeniti del metabolismo

Auricchio, S., Maiuri, L., Picarelli, A., De Vincenzi, M. (1995). Definition of the initial immunological modifications, upon gliadin challenge, in the small intestine of celiacs. *Gastroenterology*, **108** (4): 869.

Caprari, P., Bozzi, A., Malorni, W., Bottini, A., Iosi, F., Santini, M.T., Salvati, A.M. (1995). Junctional sites of erythrocyte skeletal proteins are specific targets of *tert*-butylhydroperoxide oxidative damage. *Chem. Biol. Interact.*, **94**: 243-258.

Chelucci, C., Hassan, H.J., Locardi, C., Bulgarini, D., Pelosi, E., Mariani, G., Testa, U., Federico, M., Valtieri, M., Peschle, C. (1995). *In vitro* human immunodeficiency virus-1 infection of purified hematopoietic progenitors in single-cell culture. *Blood*, **85** (5): 1181-1187.

Condorelli, G.L., Vitelli, L., Valtieri, M., Marta, I., Montesoro, E., Lulli, V., Baer, R., Peschle, C. (1995). Coordinate expression and developmental role of Id2 protein and TAL1/E2A heterodimer in erythroid progenitor differentiation. *Blood*, **86** (1): 164-175.

De Vincenzi, M. (1995). Attività protettiva dei chitosani nella celiachia. In: *Atti del II Congresso nazionale di chimica degli alimenti*. Taormina, 24-27 maggio 1995. p. 1183-1189.

De Vincenzi, M., Dessì, M.R., Mancini, E. (1995). Agglutinating activity of wheat gliadin peptides fractions in coeliac disease. *Toxicology*, **96**: 29-35.

De Vincenzi, M., Lucchetti, R., Paone, F. (1995). Ibridizzazione dei cereali. In: *Atti del Congresso nazionale sulla malattia celiaca*. Ostia, 17 marzo 1995. p. 57-60.

De Vincenzi, M., Lucchetti, R., Paone, F. (1995). Malassorbimento da glutine. In: *Atti del Congresso nazionale sulla malattia celiaca*. Ostia, 17 marzo 1995. p. 49-55.

De Vincenzi, M., Maialetti, F., Dessì, M.R. (1995). Monographs on raw aromatic materials used in food. Part IV. *Fitoterapia*, **66** (3): 203-210.

De Vincenzi, M., Maiuri, L., Giovannini, C. (1995). Cytotoxic effect of prolamin derived-peptides on *in vitro* cultures of cell-line CaCo-2. Implications for coeliac disease. *Toxicology in Vitro*, **9**: 251-255.

Grignani, F., Testa, U., Fagioli, M., Barberi, T., Masciulli, R., Mariani, G., Peschle, C., Pellicci, P.G. (1995). Promyelocytic leukemia-specific PML-retinoic acid α receptor fusion protein interferes with erythroid differentiation of human erythroleukemia K562 cells. *Cancer Res.*, **55**: 440-443.

Guerriero, R., Testa, U., Gabbianelli, M., Mattia, G., Montesoro, E., Macioce, G., Pace, A., Ziegler, B., Hassan, H.J., Peschle, C. (1995). Unilineage megakaryocytic proliferation and differentiation of purified hematopoietic progenitors in serum-free liquid culture. *Blood*, **86** (10): 3725-3736.

Labbaye, C., Valtieri, M., Barberi, T., Meccia, E., Masella, B., Pelosi, E., Condorelli, G.L., Testa, U., Peschle, C. (1995). Differential expression and functional role of GATA-2, NF-E2 and GATA-1 in normal adult hematopoiesis. *J. Clin. Invest.*, **95**: 2346-2358.

Lucchetti, R., De Vincenzi, M. (1995). Gluten-sensitive enteropathy. *Ann. Ist. Super. Sanità*, **31** (3): 323-336.

Masciulli, R., Testa, U., Barberi, T., Samoggia, P., Tritarelli, E., Pustorino, R., Mastroberardino, G., Camagna, A., Peschle, C. (1995). Combined vitamin D₃/retinoid acid induction of human promyelocytic cell lines: enhanced phagocytic cell maturation and hybrid granulomacocytic phenotype. *Cell Growth Differ.*, **6**: 493-503.

Sottoprogetto 4: Malattie cardiovascolari e degenerative

Botham, K.M., Mayes, P.A., Avella, M., Cantafora, A., Bravo, E. (1995). Comparison of the lipolysis of chylomicron remnants derived from corn oil or olive oil by hepatic lipase *in vitro*. *Biochem. Soc. Trans.*, **23**: 284S.

Bravo, E., Ortu, G., Cantafora, A., Botham, K.M. (1995). The effect of cyclic AMP on the biliary secretion of taurocholic acid in the perfused rat liver. *Biochem. Soc. Trans.*, **23**: 575S.

Bravo, E., Ortu, G., Cantafora, A., Lambert, M.S., Avella, M., Mayes, P.A., Botham, K.M. (1995). Comparison of the hepatic uptake and processing of cholesterol from chylomicrons of different fatty acid composition in the rat *in vivo*. *Biochim. Biophys. Acta*, **1258**: 328-336.

Cantafora, A., Masella, R. (1995). Analysis of phospholipids. In: *Methods in biliary research*. M. Muraca (Ed.). Boca Raton (FL, USA), CRC Press. p. 141-152.

Di Biase, A., Salvati, S., Quaresima, T., Pieroni, F., Grisolia, A., Cambiaso, P., Cappa, M. (1995). C24:0/C22:0 ratio in plasma sphingomyelin as a practical tool for the diagnosis of adrenoleukodystrophy and adrenomyeloneuropathy. *Clin. Chem. Enzymol. Commun.*, **7**: 35-40.

Giaccari, A., Morviducci, L., Zorretta, D., Sbraccia, P., Leonetti, F., Caiola, S., Buongiorno, A.M., Bonadonna, R.C., Tamburro, G. (1995). *In vivo* effects of glucosamine on insulin secretion and insulin sensitivity in the rat: possible relevance to the maladaptive responses to chronic hyperglycaemia. *Diabetologia*, **38**: 518-524.

Marotta, T., Ferrara, L.A., Di Marino, L., Mancini, M., Annuzzi, G., Russo, O., D'Orta, G., Lucarelli, C., Rossi, F. (1995). Factors affecting lipoprotein lipase in hypertensive patients. *Metab. Clin. Exp.*, **44**: 712-718.

Masella, R., Cantafora, A., Maffi, D., Volpe, R., Ginnetti, M.G., Ricci, G., Mace, N.L., Buxton, G.M., Peterson, S.W. (1995). Insulin receptor processing and lipid composition of erythrocyte membrane in patients with hyperlipidemia. *J. Biomed. Sci.*, **2**: 242-248.

Masella, R., Pignatelli, E., Marinelli, T., Modesti, D., Verna, R., Cantafora, A. (1995). Age-related variations in plasma and liver lipids of Yoshida rats: a comparison with Wistar rats. *Comp. Biochem. Physiol.*, **111B** (2): 319-327.

Sottoprogetto 5: Basi molecolari delle neoplasie e dello sviluppo

Gabriele, L., Kaido, T., Woodrow, D., Moss, J., Ferrantini, M., Proietti, E., Santodonato, L., Rozera, C., Maury, C., Belardelli, F., Gresser, I. (1995). The local and systemic response of mice to interferon α 1 transfected Friend leukemia cells. *Am. J. Pathol.*, **147**: 445-460.

Giampaolo, A., Pelosi, E., Valtieri, M., Montesoro, E., Sterpetti, P., Samoggia, P., Camagna, A., Mastroberardino, G., Gabbianelli, M., Testa, U., Peschle, C. (1995). HOXB gene expression and function in differentiating purified hematopoietic progenitors. *Stem Cells*, **13** (Suppl. 1): 90-105.

Kaido, T., Bandu, M.T., Maury, C., Ferrantini, M., Belardelli, F., Gresser, I. (1995). IFN- α gene transfection completely abolishes the tumorigenicity of murine B16 melanoma cells in allogeneic DBA/2 mice and decreases their tumorigenicity in syngeneic C57BL/6 mice. *Int. J. Cancer*, **60**: 1-9.

Li, S., Okamoto, T., Chun, M., Sargiacomo, M., Casanova, J.E., Hansen, S.H., Nishimoto, I., Lisanti, M.P. (1995). Evidence for a regulated interaction between heterotrimeric G proteins and caveolin. *J. Biol. Chem.*, **270** (26): 15693-15701.

Lisanti, M.P., Tang, Z.L., Scherer, P.E., Kübler, E., Koleske, A.J., Sargiacomo, M. (1995). Caveolae, transmembrane signalling and cellular transformation. *Mol. Membrane Biol.*, **12**: 121-124.

Lisanti, M.P., Tang, Z.L., Scherer, P.E., Sargiacomo, M. (1995). Caveolae purification and glycosylphosphatidylinositol-linked protein sorting in polarized epithelia. In: *Methods in enzymology*. P.J. Casey, J.E. Buss (Eds). New York, Academic Press. Vol. **250**, p. 655-668.

Lisanti, M.P., Sargiacomo, M. (1995). Biotinylation and analysis of membrane-bound and soluble proteins. *Curr. Protoc. Immunol.*, **8**: 1/8-16/8.

Lisanti, M.P., Sargiacomo, M., Scherer, P.E. (1995). Caveolin, a principal component of caveolae membranes. *Transduction Laboratories Insights*, **1**: 1-2.

Lisanti, M.P., Scherer, P.E., Tang, Z.L., Kübler, E., Koleske, A.J., Sargiacomo, M. (1995). Caveolae and human disease: functional roles in transcytosis, potocytosis, signalling and cell polarity. *Sem. Dev. Biol.*, **6** (1): 47-58.

Perrotti, D., Melotti, P., Skorski, T., Casella, I., Peschle, C., Calabretta, B. (1995). Overexpression of the zinc finger protein MZF1 inhibits hematopoietic development from embryonic stem cells: correlation with negative regulation of *CD34* and *c-myb* promoter activity. *Mol. Cell. Biol.*, **15** (11): 6075-6087.

Sala, A., Bellon, T., Melotti, P., Peschle, C., Calabretta, B. (1995). Inhibition of erythro-myeloid differentiation by constitutive expression of a DNA binding-deficient *c-myb* mutant: implication for *c-myb* function. *Blood*, **86** (9): 3404-3412.

Sargiacomo, M., Scherer, P.E., Tang, Z.L., Kübler, E., Song, K.S., Sanders, M.C., Lisanti, M.P. (1995). Oligomeric structure of caveolin: implications for caveolae membrane organization. *Proc. Natl Acad. Sci. USA*, **92**: 9407-9411.

Scambia, G., Testa, U., Benedetti Panici, P., Foti, E., Martucci, R., Gadducci, A., Perillo, A., Facchini, U., Peschle, C., Mancuso, S. (1995). Prognostic significance of interleukin 6 serum levels in patients with ovarian cancer. *Br. J. Cancer*, **71**: 354-356.

Scherer, P.E., Tang, Z., Chun, M., Sargiacomo, M., Lodish, H.F., Lisanti, M.P. (1995). Caveolin isoforms differ in their N-terminal protein sequence and subcellular distribution. *J. Biol. Chem.*, **270** (27): 16395-16401.

Venturelli, D., Martinez, R., Melotti, P., Casella, I., Peschle, C., Cucco, C., Spampinato, G., Darzynkiewicz, Z., Calabretta, B. (1995). Overexpression of DR-nm23, a protein encoded by a member of the *nm23* gene family, inhibits granulocyte differentiation and induces apoptosis in 32Dc13 myeloid cells. *Proc. Natl Acad. Sci. USA*, **92**: 7435-7439.

Sottoprogetto 6: Meccanismo di azione di agenti con attività antitumorale

Abbracchio, M.P., Ceruti, S., Barbieri, D., Franceschi, C., Malorni, W., Biondo, L., Burnstock, G., Cattabeni, F. (1995). A novel action for adenosine: apoptosis of astroglial cells in rat brain primary cultures. *Biochem. Biophys. Res. Commun.*, **213** (3): 908-915.

Agostinelli, E., Arancia, G., Calcabrini, A., Matarrese, P., Mondovì, B., Pietrangeli, P. (1995). Hyperthermia-induced biochemical and ultrastructural modifications in cultured cells. *Exp. Oncol.*, **17**: 269-276.

Calcabrini, A., Molinari, A., Meschini, S., Arancia, G. (1995). Intracellular accumulation and distribution of iododoxorubicin in sensitive and resistant cultured cells. *J. Exp. Clin. Cancer Res.*, **14** (1): 80-82.

Caprari, P., Bozzi, A., Malorni, W., Bottini, A., Iosi, F., Santini, M.T., Salvati, A.M. (1995). Junctional sites of erythrocyte skeletal proteins are specific targets of *tert*-butylhydroperoxide oxidative damage. *Chem. Biol. Interact.*, **94**: 243-258.

Ceruti, S., Cattabeni, F., Burnstock, G., Barbieri, D., Monti, D., Franceschi, C., Malorni, W., Abbracchio, M.P. (1995). 2-chloroadenosine-induced apoptosis in rat brain neuron-glia primary cultures. *Res. Commun. Mol. Pathol. Pharmacol.*, **87** (1): 45-46.

Chelucci, C., Hassan, H.J., Locardi, C., Bulgarini, D., Pelosi, E., Mariani, G., Testa, U., Federico, M., Valtieri, M., Peschle, C. (1995). *In vitro* human immunodeficiency virus-1 infection of purified hematopoietic progenitors in single-cell culture. *Blood*, **85** (5): 1181-1187.

Condorelli, G.L., Testa, U., Valtieri, M., Vitelli, L., De Luca, A., Barberi, T., Montesoro, E., Campisi, S., Giordano, A., Peschle, C. (1995). Modulation of retinoblastoma gene in normal adult hematopoiesis: peak expression and functional role in advanced erythroid differentiation. *Proc. Natl Acad. Sci. USA*, **92**: 4808-4812.

Condorelli, G.L., Vitelli, L., Valtieri, M., Marta, I., Montesoro, E., Lulli, V., Baer, R., Peschle, C. (1995). Coordinate expression and developmental role of Id2 protein and TAL1/E2A heterodimer in erythroid progenitor differentiation. *Blood*, **86** (1): 164-175.

- Cossarizza, A., Franceschi, C., Monti, D., Salvioli, S., Bellesia, E., Rivabene, R., Biondo, L., Rainaldi, G., Tinari, A., Malorni, W. (1995). Protective effect of *N*-acetylcysteine in tumor necrosis factor α -induced apoptosis in U937 cells: the role of mitochondria. *Exp. Cell Res.*, **220**: 232-240.
- Gabbianelli, M., Pelosi, E., Montesoro, E., Valtieri, M., Luchetti, L., Samoggia, P., Vitelli, L., Barberi, T., Testa, U., Lyman, S., Peschle, C. (1995). Multi-level effects of flt3 ligand on human hematopoiesis: expansion of putative stem cells and proliferation of granulomonocytic progenitors/monocytic precursors. *Blood*, **86** (5): 1661-1670.
- Giampaolo, A., Pelosi, E., Valtieri, M., Montesoro, E., Sterpetti, P., Samoggia, P., Camagna, A., Mastroberardino, G., Gabbianelli, M., Testa, U., Peschle, C. (1995). HOXB gene expression and function in differentiating purified hematopoietic progenitors. *Stem Cells*, **13** (Suppl. 1): 90-105.
- Ginanni Corradini, S., Arancia, G., Calcabrini, A., Della Guardia, P., Baiocchi, L., Nistri, A., Giacomelli, L., Angelico, M. (1995). Lamellar bodies coexist with vesicles and micelles in human gallbladder bile. Ursodeoxycholic acid prevents cholesterol crystal nucleation by increasing biliary lamellae. *J. Hepatol.*, **22**: 642-657.
- Greco, G., Gabriele, L., Rozera, C., Venditti, M., Belardelli, F., Proietti, E. (1995). Correlation between the sensitivity or resistance to IL-2 and the response to cyclophosphamide of 4 tumors transplantable in the same mouse host. *Int. J. Cancer*, **62**: 184-190.
- Gresser, I., Maury, C., Kaido, T., Bandu, M.T., Tovey, M.G., Manoury, M.T., Fantuzzi, L., Gessani, S., Greco, G., Belardelli, F. (1995). The essential role of endogenous IFN α/β in the anti-metastatic action of sensitized T lymphocytes in mice injected with Friend erythroleukemia cells. *Int. J. Cancer*, **63**: 726-731.
- Labbaye, C., Valtieri, M., Barberi, T., Meccia, E., Masella, B., Pelosi, E., Condorelli, G.L., Testa, U., Peschle, C. (1995). Differential expression and functional role of GATA-2, NF-E2 and GATA-1 in normal adult hematopoiesis. *J. Clin. Invest.*, **95**: 2346-2358.
- Lucia, M.B., Cauda, R., Landay, A.L., Malorni, W., Donelli, G., Ortona, L. (1995). Transmembrane P-glycoprotein (P-gp/P-170) in HIV infection: analysis of lymphocyte surface expression and drug-unrelated function. *AIDS Res. Human Retroviruses*, **11** (8): 893-901.