

FORMATO EUROPEO PER IL
CURRICULUM VITAE



PERSONAL INFORMATION

Name, Surname **Giulia Piaggio**
House number, street name, [REDACTED]
postcode, city, country [REDACTED]
[REDACTED] 5
E-mail piaggio@ifo.it
Nationality Italian
Place and Date of birth [REDACTED]

WORK EXPERIENCE

•Date (da – a) 1991-today
Name and address of employer Regina Elena National Cancer Institute
Occupation or position held Senior Staff Scientist

Main activities and responsibilities Research interests: Dr. Piaggio's main research interest is focused on the regulation of gene expression during cell proliferation, differentiation and transformation. She set up several techniques to follow transcriptional molecular mechanisms in living cells, tissues and animals such as in vivo genomic footprinting, chromatin immunoprecipitation and fluorescence recovery after photobleaching (FRAP). Recently, she has been involved in the development of a transgenic mouse model to follow physiological and pathological proliferation events by bioluminescence in vivo imaging, BLI.
Responsibilities: Dr. Piaggio is a group leader directly involved in the overall supervision of her research team by providing scientific inputs, discussing the ongoing experiments and ensuring the timely achievement of the proposed tasks. She is responsible for the critical evaluation of the results and their publication in peer reviewed journals. Since 1994, she is responsible of the budget of several public and private grant research projects.

• Date (da – a) 01/07/2003-10/08/2003
Name and address of employer Laboratory of Molecular Growth Regulation National Institute of Child Health and Human. Development. NIH Bethesda
Occupation or position held UICC Fellow for abroad, Visiting Scientist
Main activities and responsibilities Research interests: Dynamics of NF-Y Transcription Factor in Living Cells during Mitosis.

• Date (da – a) 01/08/1999-31/08/1999
Name and address of employer Laboratory of Molecular Growth Regulation National Institute of Child Health and Human. Development. NIH Bethesda
Occupation or position held Contractor, Visiting Scientist
Main activities and responsibilities Research interests: Set up of FLIP-FRAP experiments to visualize the movement of NF-Y in normal and transformed living cells.

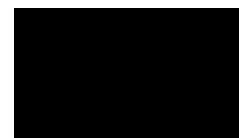
• Date (da – a) 01/05/1996- 15/07/1996
Name and address of employer Laboratory of Molecular Growth Regulation National Institute of Child Health and Human. Development. NIH Bethesda
Occupation or position held FIRC Fellow for abroad, Visiting scientist
Main activities and responsibilities Research interests: Genomic footprinting of the cyclin B1 to investigate the DNA elements involved in its transcription "in vivo".

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<ul style="list-style-type: none"> • Date (da – a) 	06/01/1990-31/07/1990
Name and address of employer	Molecular Biology Laboratory, IRBM, Research Institute for Molecular Biology Merck-Sigma Tau, Pomezia, Roma.
Occupation or position held	Staff Researcher
Main activities and responsibilities	<u>Research interests</u> : Liver specific transcription in human cells
<ul style="list-style-type: none"> •Date (da – a) 	01/01/1988-05/01/1990
Name and address of employer	Department of Gene Expression (Chief Dr. Riccardo Cortese), EMBL, European Molecular Biology Laboratory, Heidelberg, FRG.
Occupation or position held	Postdoctoral Fellow
Main activities and responsibilities	<u>Research interests</u> : Liver specific transcription in human cells
Awards	1987 AIRC fellow 1996 FIRC fellow for abroad 2003 UICC fellow for abroad 2014 Abilitation ANVUR to Full Professor in Molecular Biology (BIO 05/E2) and Cellular Biology (BIO 05/F1) 2014 Pezcoller Begnudelli Award H index: 25 according with scopus

EDUCATION AND TRAINING

<ul style="list-style-type: none"> Dates (from – to) 	April 2001
Name and type of organisation providing education and training	University “La Sapienza”, Rome, Italy
Title of qualification awarded	Board Certified in Clinical Pathology. 70/70 <i>cum laude</i>
<ul style="list-style-type: none"> Dates (from – to) 	01/01/1987-31/12/1989
Name and type of organisation providing education and training	Molecular Oncogenesis Lab., “Regina Elena” Cancer Institute, Rome.
Title of qualification awarded	AIRC fellow
<ul style="list-style-type: none"> Dates (from – to) 	Dicember 1987
Name and type of organisation providing education and training	University “La Sapienza”, Rome, Italy
Title of qualification awarded	Italian Biological License.
<ul style="list-style-type: none"> Dates (from – to) 	November 1985
Name and type of organisation providing education and training	University “La Sapienza”, Rome, Italy
Title of qualification awarded	Laurea in Biological Science
Level in National classification	110/110



Research sectors

- Molecular and Cellular Biology,
- Cancer Biology,
- Experimental Medicine,
- In vivo Molecular Imaging

Recent Scientific Activities**Scientific Societies Membership**

2010-2012 board member of the "Societa' Italiana di Biofisica e di Biologia Molecolare" (SIBBM).

2013-2018 board member of the "Associazione di Biologia Cellulare e Differenziamento" (ABCD)

since 1999 member of the "Associazione di Biologia Cellulare e del Differenziamento" (ABCD) and of the "Societa' Italiana di Biofisica e di Biologia Molecolare" (SIBBM).

Peer reviewer activities

2011 to today: member of the editorial board of Comparative and Functional Genomics.

Since 2015 member of the editorial board of Peer J.

2012-today: member of the editorial board of International Journal of Genomic.

Reviewer for the following peer reviewed scientific journals: BMC bone, FEBS, J. Exp Clinical Cancer Res., NAR, Oncogene, PloS ONE, Experimental Hematology, Nature Communications, Cancer Research, Cell Death and Disease, Cell Death Diff., BBAGRM.

2014 Project Evaluation Reviewer for MIUR and ANVUR (VQR 2004-2010).

2017 Member of the Ministry Committee for the evaluation of the FARE 2016 projects, sector ERC – LS – Life Sciences.

Tutor scientific activities

2006 Expert member of Doctoral Course "Biologia Umana e Genetica" (XIX ciclo), Dipartimento di Biotecnologie Cellulari ed Ematologia, Sezione di Genetica Molecolare Policlinico Umberto I.

2007 Expert member of Doctoral Course "Genetica e Biologia Molecolare" (XX ciclo), Dipartimento di Genetica e Biologia Molecolare Charles Darwin, Universita' di Roma Sapienza.

Tutor for graduate and PhD student's thesis.

Principal Investigator responsible for postdoctoral fellows from FIRC (5) and Fondazione Veronesi (2)

2014 Expert member of the European School of Molecular Medicine Doctoral Course IFOM, Milano.

2014 Opponent to PhD public defense dissertation. Campus Solna, Karolinska Institutet, Stockholm, Sweden

2015 Co-proponent of PhD public defense dissertation. University Medical Center, Groningen, The Netherlands. Student: Filippo Galli, Tutor: Professor Rudi A.J.O. Dierckx

International and National Congress Organization

Organizer of the "First ROC international workshop and practical course on chromatin immunoprecipitation related techniques" 11-12 November 2006. Regina Elena Cancer Institute, Rome, Italy.

Organizer of the "First IRE International Workshop on Chromatine Remodeling and Human Disease" 4-7– Regina Elena Cancer Institute, Rome, Italy.

2000 - 2005 organizer of the annual meeting sponsored by "Societa' Italiana di Biofisica e di Biologia Molecolare" (SIBBM).

**PUBLICATIONS
(selection from the last 10
years)**

1. Vizza E, Corrado G, De Angeli M, Carosi M, Mancini E, Baiocco E, Chiofalo B, Patrizi L, Zampa A, Piaggio G, Cicchillitti L. Serum DNA integrity index as a potential molecular biomarker in endometrial cancer. J Exp Clin Cancer Res. 2018 Jan 30;37(1):16. doi: 10.1186/s13046-018-0688-4.
2. Cicchillitti L, Corrado G, De Angeli M, Mancini E, Baiocco E, Patrizi L, Zampa A, Merola R, Martayan A, Conti L, Piaggio G, Vizza E. Circulating cell-free DNA content as blood based biomarker in endometrial cancer. Oncotarget. 2017 Dec 14;8(70):115230-115243. doi: 10.18632/oncotarget.23247. eCollection 2017 Dec 29.

3. Beji S, Milano G, Scopece A, Cicchillitti L, Cencioni C, Picozza M, D'Alessandra Y, Pizzolato S, Bertolotti M, Spaltro G, Raucci A, Piaggio G, Pompilio G, Capogrossi MC, Avitabile D, Magenta A, Gambini E. Doxorubicin upregulates CXCR4 via miR-200c/ZEB1-dependent mechanism in human cardiac mesenchymal progenitor cells. *Cell Death Dis.* 2017 Aug 24;8(8):e3020. doi: 10.1038/cddis.2017.409.
4. Galli F, Artico M, Taurone S, Manni I, Bianchi E, Piaggio G, Weintraub BD, Szkudlinski MW, Agostinelli E, Dierckx RAJO, Signore A. Radiolabeling of VEGF165 with ^{99m}Tc to evaluate VEGFR expression in tumor angiogenesis. *Int J Oncol.* 2017 Jun;50(6):2171-2179. doi: 10.3892/ijo.2017.3989.
5. Gurtner A, Manni I, Piaggio G. NF-Y in cancer: Impact on cell transformation of a gene essential for proliferation. *Biochim Biophys Acta.* 2017 May;1860(5):604-616. doi: 10.1016/j.bbagr.2016.12.005. Review.
6. Cicchillitti L, Corrado G, Carosi M, Dabrowska ME, Loria R, Falcioni R, Cutillo G, Piaggio G, Vizza E. Prognostic role of NF-YA splicing isoforms and Lamin A status in low grade endometrial cancer. *Oncotarget.* 2017 Jan 31;8(5):7935-7945. doi: 10.18632/oncotarget.13854.
7. Cicchillitti L, Manni I, Mancone C, Regazzo G, Spagnuolo M, Alonzi T, Carlomosti F, Dell'Anna ML, Dell'Omo G, Picardo M, Ciana P, Capogrossi MC, Tripodi M, Magenta A, Rizzo MG, Gurtner A, Piaggio G. The laminA/NF-Y protein complex reveals an unknown transcriptional mechanism on cell proliferation. *Oncotarget.* 2017 Jan 10;8(2):2628-2646. doi: 10.18632/oncotarget.12914.
8. Manni I, Di Rocco G, Fusco S, Leone L, Barbati SA, Carapella CM, Grassi C, Piaggio G, Toietta G. Monitoring the Response of Hyperbilirubinemia in the Mouse Brain by In Vivo Bioluminescence Imaging. *Int J Mol Sci.* 2016 Dec 28;18(1). pii: E50. doi: 10.3390/ijms18010050.
9. Regazzo G, Terrenato I, Spagnuolo M, Carosi M, Cognetti G, Cicchillitti L, Sperati F, Villani V, Carapella C, Piaggio G, Pelosi A, Rizzo MG. A restricted signature of serum miRNAs distinguishes glioblastoma from lower grade gliomas. *J Exp Clin Cancer Res.* 2016 Jul 30;35(1):124. doi: 10.1186/s13046-016-0393-0.
10. Principi E, Girardello R, Bruno A, Manni I, Gini E, Pagani A, Grimaldi A, Ivaldi F, Congiu T, De Stefano D, Piaggio G, de Eguileor M, Noonan DM, Albini A. Systemic distribution of single-walled carbon nanotubes in a novel model: alteration of biochemical parameters, metabolic functions, liver accumulation, and inflammation in vivo. *Int J Nanomedicine.* 2016 Sep 1;11:4299-316. doi: 10.2147/IJN.S109950. eCollection 2016.
11. Falcone E, Grandoni L, Garibaldi F, Manni I, Filligoi G, Piaggio G, Gurtner A. Infinity: An In-Silico Tool for Genome-Wide Prediction of Specific DNA Matrices in miRNA Genomic Loci. *PLoS One.* 2016 Apr 15;11(4):e0153658. doi: 10.1371/journal.pone.0153658. eCollection 2016.
12. Vantaggiato C, Dell'Omo G, Ramachandran B, Manni I, Radaelli E, Scanziani E, Piaggio G, Maggi A, Ciana P. Bioluminescence imaging of estrogen receptor activity during breast cancer progression. *Am J Nucl Med Mol Imaging.* 2016 Jan 28;6(1):32-41. eCollection 2016.
13. Gurtner A, Falcone E, Garibaldi F, Piaggio G. Dysregulation of microRNA biogenesis in cancer: the impact of mutant p53 on Drosha complex activity. *J Exp Clin Cancer Res.* 2016 Mar 12;35:45. doi: 10.1186/s13046-016-0319-x. Review.
14. Garibaldi F, Falcone E, Triscioglio D, Colombo T, Walerych D, Lisek K, Del Sal G, Paci P, Bossi G, Piaggio G*, Gurtner A. Mutant p53 inhibits miRNA biogenesis by interfering with the Microprocessor complex. *Oncogene.* 2016 Jul 21;35(29):3760-70. doi: 10.1038/onc.2016.51. IF: 8,459 *co-corresponding author
15. de Latouliere L, Manni I, Iacobini C, Pugliese G, Grazi GL, Perri P, Cappello P, Novelli F, Menini S, Piaggio G. A bioluminescent mouse model of proliferation to highlight early stages of pancreatic cancer: A suitable tool for preclinical studies *Ann Anat.* 2016 Sep;207:2-8. doi: 10.1016/j.aanat.2015.11.010IF: 1,459
16. Marsha Pellegrino, Francesca Mancini, Rossella Lucà, Alice Coletti, Nicola Giacchè, Isabella Manni, Ivan Arisi, Fulvio Florenzano, Emanuela Teveroni, Marianna Buttarelli, Laura Fici, Rossella Brandi, Tiziana Bruno, Maurizio Fanciulli, Mara D'Onofrio, Giulia Piaggio, Roberto Pellicciari, Alfredo Pontecorvi, Jean Christophe. Marine, Antonio Macchiarulo, Fabiola Moretti.

- Targeting the MDM2/MDM4 interaction interface as a promising approach for p53 reactivation therapy. *Cancer Res.* 2015 Nov 1;75(21):4560-72. doi: 10.1158/0008-5472.CAN-15-0439 IF: 9.329
17. Galli F, Rapisarda AS, Stabile H, Manni I, Bonanno E, Piaggio G, Gismondi A, Santoni A, Signore A. In vivo imaging of NK cell trafficking in tumors. *J Nucl Med.* 2015 Aug 13. pii: jnumed.114.152918 IF: 6,16
 18. Rizzi N, Manni I, Vantaggiato C, Delledonne AG, Gentileschi MP, Maggi A, Piaggio G*, Ciana P. In vivo imaging of cell proliferation for a dynamic, whole body, analysis of undesired drug effects. *Toxicol Sci.* 2015 Jun;145(2):296-306. IF: 3.854 * co-corresponding author
 19. Stagni V, Manni I, Oropallo V, Mottolese M, Di Benedetto A, Piaggio G, Falcioni R, Giaccari D, Di Carlo S, Sperati F, Cencioni MT, Barilà D. ATM kinase sustains HER2 tumorigenicity in breast cancer *Nat Commun.* 2015 Apr 16;6:6886. IF: 10.742
 20. Ubertini V, Norelli G, D'Arcangelo D, Gurtner A, Cesareo E, Baldari S, Gentileschi MP, Piaggio G, Nisticò P, Soddu S, Facchiano A, Bossi G. Mutant p53 gains new function in promoting inflammatory signals by repression of the secreted interleukin-1 receptor antagonist. *Oncogene.* 2014 Jul 7. doi: 10.1038/onc.2014.191. [Epub ahead of print]
 21. Vantaggiato C, Tocchetti M, Cappelletti V, Gurtner A, Villa A, Daidone MG, Piaggio G, Maggi A, Ciana P. Cell cycle dependent oscillatory expression of estrogen receptor- α links Pol II elongation to neoplastic transformation. *Proc Natl Acad Sci U S A.* 2014 Jul 1;111(26):9561-6.
 22. Galli F, Manni I, Piaggio G, Balogh L, Weintraub BD, Szkudlinski MW, Fremont V, Dierckx RA, Signore A. ^{99m}Tc-labelled-rhTSH analogue (TR1401) for imaging poorly differentiated metastatic thyroid cancer. *Thyroid.* 2014 Aug;24(8):1297-308
 23. Pelosi A, Careccia S, Sagrestani G, Nanni S, Manni I, Schinzari V, Martens JH, Farsetti A, Stunnenberg HG, Gentileschi MP, Del Bufalo D, De Maria R, Piaggio G, Rizzo MG. Dual Promoter Usage as Regulatory Mechanism of let-7c Expression in Leukemic and Solid Tumors. *Mol Cancer Res.* 2014 Jun;12(6):878-89.
 24. De Santis M, Rinaldi F, Falcone E, Lucidi S, Piaggio G, Gurtner A, Farina L. Combining optimization and machine learning techniques for genome-wide prediction of human cell cycle-regulated genes. *Bioinformatics.* 2014 Jan 15;30(2):228-33.
 25. Spallotta F, Cencioni C, Straino S, Nanni S, Rosati J, Artuso S, Manni I, Colussi C, Piaggio G, Martelli F, Valente S, Mai A, Capogrossi MC, Farsetti A, Gaetano C. A Nitric Oxide-dependent Crosstalk Between Class I and III Histone Deacetylases Accelerates Skin Repair. *J Biol Chem.* 2013 Apr 19;288(16):11004-12. IF: 4,77
 26. Pelosi A, Careccia S, Lulli V, Romania P, Marziali G, Testa U, Lavorgna S, Lo-Coco F, Petti MC, Calabretta B, Levrero M, Piaggio G and Rizzo MG. miRNA let-7c promotes granulocytic differentiation in acute myeloid leukemia. *Oncogene.* 2013 Aug 1;32(31):3648-54. IF: 6,37
 27. Cicchillitti L, Di Stefano V, Isaia E, Crimaldi L, Fasanaro P, Ambrosino V, Capogrossi MC., Piaggio G and F. Martelli. Hypoxia Inducible Factor 1-alpha induces miR-210 in normoxic differentiating myoblasts. *J Biol Chem.* 2012 Dec 28;287(53):44761-71. IF: 4,77
 28. Elie A, Akl, Joerg J. Meerpohl, Dany Raad, Giulia Piaggio, Manlio Mattioni, Marco G. Paggi, Aymone Gurtner, Stefano Mattarocci, Rizwan Tahir, Paola Muti, Holger J. Schünemann. Effects of assessing the productivity of faculty in academic medical centers: a systematic review. *CMAJ.* 2012 Aug 7;184(11):E602-12. IF: 8,22
 29. Oliva P, Roncoroni C, Radaelli E, Brunialti E, Rizzi N, de Maglie M, Scanziani E, Piaggio G, Ciana P, Komm B, Maggi A. Global Profiling of TSEC Proliferative Potential by the Use of a Reporter Mouse for Proliferation. *Reprod Sci.* 2013 Feb;20(2):119-28. IF: 2,44
 30. Rocco GD, Gentile A, Antonini A, Truffa S, Piaggio G, Capogrossi MC, Toietta G. Analysis of biodistribution and engraftment into the liver of genetically-modified mesenchymal stromal cells derived from adipose tissue. *Cell Transplant.* 2012;21(9):1997-2008. IF: 6,2
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- activity maps proliferation sites in live animals. *Mol Biol Cell*. 2012 Apr;23(8):1467-74 IF: 4,94
32. Signore A, Mather SJ, Piaggio G, Malviya G, Dierckx RA. Molecular imaging of inflammation/infection: nuclear medicine and optical imaging agents and methods. *Chem Rev*. 2010 May 12;110(5):3112-45 IF: 40,19
 33. Gaetano C, Capogrossi M, Fanciulli M, Filetici P, Piaggio G. Epigenetics in rome: Breaking news from the chromatin remodeling and human disease workshop. *Epigenetics*. 2010 Apr 14;5(3). IF: 4,3
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 36. Careccia S, Mainardi S, Pelosi A, Gurtner A, Diverio D, Riccioni R, Testa U, Pelosi E, Piaggio G, Sacchi A, Lavorgna S, Lo-Coco F, Blandino G, Levrero M, Rizzo MG. A restricted signature of miRNAs distinguishes APL blasts from normal promyelocytes. *Oncogene*. 2009 Nov 12;28(45):4034-40. IF: 6,37
 37. Manni I, Artuso S, Careccia S, Rizzo MG, Baserga R, Piaggio G, Sacchi A. The microRNA miR-92 increases proliferation of myeloid cells and by targeting p63 modulates the abundance of its isoforms. *FASEB J*. 2009 Nov;23(11):3957-66 IF: 5,71
 38. Colussi C, Gurtner A, Rosati J, Illi B, Ragone G, Piaggio G, Moggio M, Lamperti C, D'Angelo G, Clementi E, Minetti G, Mozzetta C, Antonini A, Capogrossi MC, Puri PL, Gaetano C. "Nitric oxide deficiency determines global chromatin changes in Duchenne muscular dystrophy". *FASEB J*. 2009 Jul;23(7):2131-41 IF: 5,71
 39. Colussi C, Mozzetta C, Minetti G, Gurtner A, Illi B, Straino S, Ragone G, Pescatori M, Rici E, Puri PL, Piaggio G, Capogrossi MC, Gaetano C. "Global Changes in Histone Modification Landscape Characterize Duchenne Muscle Dystrophy Response to Histone Deacetylase Inhibitors". *Proc Natl Acad Sci U S A*. 2008 Dec 9;105(49):19183-7. IF: 9,68
 40. Manni I, Caretti G, Artuso S, Gurtner A, Emiliozzi V, Sacchi A, Mantovani R, Piaggio G. Posttranslational Regulation of NF-YA Modulates NF-Y Transcriptional Activity. *Mol Biol Cell*. 2008 Dec;19(12):5203-13 IF: 4,94
 41. Gurtner A, Fuschi P, Magi F, Colussi C, Gaetano C, Dobbstein M, Sacchi A, Piaggio G. NF-Y dependent epigenetic modifications discriminate between proliferating and postmitotic tissue. *PLoS ONE*. 2008 Apr 23;3(4):e2047. IF: 4,09
 42. Blandino G, Fanciulli M, Levrero M, Piaggio G. The post-genomic era: workshop on chromatin immunoprecipitation-related techniques. *Cell Death Differ*. 2007 Jul;14(7):1390-1. IF: 8,85
 43. Di Agostino S, Strano S, Emiliozzi V, Zerbini V, Mottolose M, Sacchi A, Blandino G, Piaggio G. Gain of function of mutant p53: the mutant p53/NF-Y protein complex reveals an aberrant transcriptional mechanism of cell cycle regulation. *Cancer Cell*. 2006 Sep;10(3):191-202. IF: 26,56
 44. Cecchinelli B, Lavra L, Rinaldo C, Iacovelli S, Gurtner A, Gasbarri A, Ulivieri A, Del Prete F, Trovato M, Piaggio G, Bartolazzi A, Soddu S, Sclacchitano S. Repression of the antiapoptotic molecule galectin-3 by homeodomain-interacting protein kinase 2-activated p53 is required for p53-induced apoptosis. *Mol Cell Biol*. 2006 Jun;26(12):4746-57. IF: 5,53
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- NF-Y transcription factor during skeletal muscle differentiation. *Mol Biol Cell*. 2003 Jul;14(7):2706-15. IF: 4,94
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 50. D'Orazi G, Cecchinelli B, Bruno T, Manni I, Higashimoto Y, Saito S, Gostissa M, Coen S, Marchetti A, Del Sal G, Piaggio G, Fanciulli M, Appella E, Soddu S. Homeodomain-interacting protein kinase-2 phosphorylates p53 at Ser 46 and mediates apoptosis. *Nat Cell Biol*. 2002 Jan;4(1):11-9. IF: 19,48
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 54. Porrello A, Cerone MA, Coen S, Gurtner A, Fontemaggi G, Cimino L, Piaggio G, Sacchi A, Soddu S. p53 regulates myogenesis by triggering the differentiation activity of pRb. *J Cell Biol*. 2000 Dec 11;151(6):1295-304. IF: 10,26
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**Autorizzo il trattamento e l'utilizzo dei dati personali, ai sensi del D.L. 30 giugno 2003 n. 196*

