

## **Anna Tramontano**

Born in Naples 14/7/1957

Resident in Via Giulio Curioni 131, 00157 Rome

Nationality: Italian

Full Professor of Biochemistry

Sapienza University of Rome

- since 2001** Professor of Biochemistry, Sapienza University of Rome
- since 2004** Director of the Bioinformatics Program, CRS4, Pula (CA)
- 1996 - 2001** Director of the Computational Biology and Chemistry Department at IRBM (Merck Research Laboratories in Pomezia, Rome)  
and  
Director of Information Technology and Research Information Systems at IRBM  
and  
Professor of Chimica Computazionale II at the University of Naples
- in 1994/95** Director of Biocomputing Unit of IRBM
- in 1990/93** Biocomputing Group Leader at IRBM  
and  
Professor of Bioinformatics at the University of Milan
- in 1988/90** Staff member of the European Laboratory for Molecular Biology in Heidelberg (D) in the Biocomputing Programme.
- in 1987** Research fellow at International Institute of Genetics and Biophysics in Naples
- in 1985/86** Consultant for Biosym Technologies Inc., San Diego, CA, USA
- in 1984/85** Post-doctoral research fellow at the Department of Biochemistry and Biophysics of the University of California, San Francisco (USA)
- in 1981/84** Research fellow at the International Institute of Genetics and Biophysics in Naples
- in 1980** Laurea in Physics, summa cum laude, at the University of Naples

### ***Scientific interests***

Computational Biology

Bioinformatics

Genome functional annotation

Protein Structure Prediction

Protein structure analysis

Protein sequence analysis

Protein design

### ***Editorial activities***

Associate Editor of Bioinformatics (2006-)

Associate Editor of PLoS ONE (2011-)

Associate Editor of BBSRC (2011-)

Editorial Board The FEBS Journal (2002-2011)

Associate Editor of Proteins (2002-)

Advisory Editorial Board of EMBO Journal and EMBO Reports (2007-2008)

### ***Awards and elected memberships***

Member of the Scientific Council of the European Research Council (ERC) (2011 -)  
Member of the Evaluation Committee of the Scuola Normale Superiore di Pisa  
Chair of the ERC LS2 panel for Advanced Grants (2009-2011)  
Tartufari Prize (2010)  
KAUST Global Research Partnership award 2008  
Premio Minerva per la ricerca scientifica 2005  
Premio speciale della cultura per le Scienze Naturali della Presidenza del Consiglio dei Ministri 2002  
Marotta Prize (2001) - National Academy of Science  
EMBO member (1993 - )  
Academia Europaea (2009 -)  
Accademia Medica Romana (2005 -)  
International Society for Computational Biology (ISCB) Board of directors (2001-)  
ISCB Vice president (2002-2005)  
European Molecular Biology Laboratory Scientific Advisory Committee (2006-2011)  
Chair of the Scientific Advisory Board of the IIMCB Warsaw (2008 -)  
Max Planck Institute for Molecular Genetics, Berlin Advisory Board (2008 -)  
European Bioinformatics Institute (EBI) Advisory Committee chair (2005-2012)  
EMBO fellowship committee (2008 -)  
Swiss Institute for Bioinformatics Advisory Board (2009 -)  
Scientific Advisory Board of the Centro Nacional de Biotecnología (2009 -)  
Scientific Council of Institute Pasteur - Fondazione Cenci Bolognetti (2002 -)  
Scientific Advisory Board of the University of Zurich Research Priority Program "Systems biology/Functional Genomics" (2003-)  
Member of the steering committee of the ESFRI Elixir project (European Bioinformatics Infrastructure construction project) and Italian Ministry delegate  
Co-organizer Critical Assessment of Techniques for Protein Structure Prediction Experiment (CASP)  
BioSapiens Network of Excellence Steering Committee (2003 - 2009)  
FEBS Publication Committee (2006 -2008)  
Independent expert reviewer for the evaluation of FP7 projects

### ***Major funding***

King Abdullah University for Science and Technology (KAUST) Award (2008-2013) 5,500 K\$ (PI)  
FIRB Italbionet (2004-2011) 500 K€ (PI)  
Fondazione Banca di Roma (2010-2012) 1100 K€ (PI)  
AIRC (2005-2010) 200 K€ (PI)  
Italian Institute of Technology (IIT) Seed Projects (2010-2012) ~1,000 K€ (Co-PI)  
Italian Institute of Technology (IIT) NanoBioTec project (2011-2016) ~4,000 K€ (PI)  
EU: BioSapiens NoE (2005-2009) 500 K€ (PI)

### ***Invited to give seminars / lectures / conferences in:***

Argentina (Buenos Aires), Australia (Canberra, Lorne), Brasil (Rio de Janeiro), Canada (Québec), Croatia (Rovinj), Cuba (Havana), Denmark (Copenhagen), Finland (Turku, Tromso), France (Paris, Strasbourg), Germany (Munich, Heidelberg, Braunschweig, Saarbrücken, Hamburg), Greece (Eraklion), India (Lucknow, Madurai), Israel (Eilat), Kenia (Nairobi), Mali

(Bamako), Netherlands (Amsterdam, Njemegen), Norway (Oslo), Portugal (Oeiras), Russia (Moscow, Puschino), Saudi Arabia (Jeddah, Riyad), South Africa (Pretoria), Slovenia (Portoroz, Ljubjana), Spain (Madrid, Barcellona, La Coruna), Sweden (Stockholm, Uppsala), Switzerland (Ascona, Fribourg), Turkey (Istanbul, Antalya), UK (London., Oxford, Cambridge, Glasgow, Cardiff, Dover), USA (Asilomar, San Diego, Seattle, New York), Italy (all major cities).

## ***Publications***

### ***Books***

- Tramontano, A. Protein Structure Prediction: Concepts and applications Wiley-VCH, Weinheim (2006).
- Tramontano, A. Introduction to Bioinformatics CRC Press, New York (2006).
- Tramontano, A. Protein Structure Prediction, Wiley Inc. Weinheim, Germany. (2006)
- Tramontano, A. The ten most wanted solutions in protein bioinformatics, Chapman&Hall/CRC Mathematical Biology and Medicine Series. (2005)
- Tramontano, A. Bioinformatica. Zanichelli, Bologna. (2002)

### ***Patents***

- Tramontano, A., Cortese, R., Lahm, A., Nicosia, A. Mimotopes of hypervariable region 1 of the E2 glycoprotein of HCV and use thereof 9810756.8 14.05.99
- De Francesco, R., Tramontano, A., Colloca, S., Steinkuehler, C. Tomei, L., Nardi, C.M., Urbani, A., Vitale, S. Soluble polypeptides with activities of the NS3 Serine protease of Hepatitis C Virus and process for their preparation and isolation 96A000632 17.09.96
- Failla, C., Morea, V. Tramontano, A. Sequenza peptidica isolata nel dominio II tipo immunoglobulina del recettore I del fattore di crescita dell'endotelio vascolare e legante l'integrina  $\alpha 5\beta 1$  ad attivita' proangiogenica.

### ***Peer reviewed publications***

**Total number of citations: 6172 (Google Scholar) 4905 (ISI Web of Science)**

**H-index: 41 (Google Scholar) 35 (ISI Web of Science)**

1. Chailyan, A., Tramontano, A., Marcatili, P. A database of immunogloblins with integrated tools: DIGIT Nucl. Acids Res. (2011) doi: 10.1093/nar/gkr806
2. Lepore, R., Simeoni S., Raimondo, D., Caroli, A., Tramontano, A., Via, A. Identification of the Schistosoma mansoni Molecular Target for the Anti Malarial Drug Artemether (2011) Journal of Chemical Information and Modeling, 51(11):3005-16.
3. Cesana, M., Cacchiarelli, D., Legnini, I., Santini, T., Sthandier, O., Chinappi, M., Tramontano, A. and Bozzoni, I. A Long Noncoding RNA Controls Muscle Differentiation by Functioning as a Competing Endogenous RNA. (2011) Cell 147, 358–369.
4. Grassi L., Tramontano, A. (2011) Horizontal and vertical growth of S. cerevisiae metabolic network. BMC Evolutionary Biology, 11:301
5. Moulton, J., Fidelis, K., Kryshtafovych, A. and Tramontano, A. (2011) Critical Assessment of Methods of Protein Structure Prediction (CASP) - Round IX. Proteins, 79, S10: 1–5
6. Monastyrskyy, B., Fidelis, K., Moulton, J., Tramontano, A. and Kryshtafovych, A. (2011) Evaluation of model quality predictions in CASP9, Proteins, 79, S10: 91–106
7. Sayadi A, Briganti L, Tramontano A, Via A (2011) Exploiting publicly available biological and biochemical information for the discovery of novel short linear motifs. PLoS One. 2011;6(7):e22270.
8. Via A, De Las Rivas J, Attwood TK, Landsman D, Brazas MD, Leunissen JAM, Tramontano A, Schneider MV (2011) 10 simple rules for developing a short bioinformatics training course. PLoS Computational Biology. 7(10): e1002245. doi:10.1371/journal.pcbi.1002245
9. Ghiotto, F., Marcatili, P. Tenca, C., Calevo, M.G., Yan, X., Albesiano, E., Bagnara, D. Colombo, M., Cutrona, G., Chu, C.C., Morabito, F., Bruno, S. Ferrarini, F., Tramontano, A. Fais, F., and Chiorazzi, N. (2011) Analysis of mutation patterns of

- paired immunoglobulin heavy and light variable domains expressed by chronic lymphocytic leukemia B cells, *Molecular Medicine*, 17:1188-1195
10. Kryshchak, A., Fidelis, K. and Tramontano, A. (2011) Evaluation of residue-residue contacts predictions in CASP9, *Proteins*, 79, S10:119–125
  11. Monastyrskyy, B., Fidelis, K., Moulton, J., Tramontano, A. and Kryshchak, A. (2011) Evaluation of disorder prediction in CASP9, *Proteins*, 79, S10:107–118
  12. Via A, Tramontano A (2011) Protein structural motifs: identification, annotation and use in function prediction. In "Sequence and Genome Analysis: Methods and Application II", iConcept Press Ltd. Australia.
  13. Chailyan, A., Marcatili, P., Tramontano, A. The association of heavy and light chain variable domains in antibodies: implications for antigen specificity. *The FEBS Journal*, DOI: 10.1111/j.1742-4658.2011.08207.x
  14. Eberini, I., Emerson, A., Sensi, C., Ragona, L., Ricchiuto, P., Pedretti, A., Gianazza, E. and Tramontano, A. (2011) Simulation of urea-induced protein unfolding: A lesson from BOVINE  $\beta$ -lactoglobulin. *Journal of Molecular Graphics and Modelling*, doi:10.1016/j.jmglm.2011.06.004
  15. Floris, M., Raimondo, D., Leoni, G., Orsini, M., Marcatili, P. and Tramontano, A. (2011) MAISTAS: a tool for automatic structural evaluation of alternative splicing products. *Bioinformatics*, 79(5) 1513–1524.
  16. Valente, S., Tardugno, M., Conte, M., Cirilli, R., Perrone, A., Ragno, R., Simeoni, S., Tramontano, A., Massa, S., Nebbioso, A., Miceli, M., Franci, G., Brosch, G., Altucci, L. and Mai, A. (2011) Novel Cinnamyl Hydroxyamides and 2-Aminoanilides as Histone Deacetylase Inhibitors: Apoptotic Induction and Cytodifferentiation Activity, *ChemMedChem*, 6, 698 – 712
  17. Mancini, E., Tammaro, F., Baldini, F., Via, A., Raimondo, D., George, P., Audisio, P., Sharakhov, I.V., Tramontano, A., Catteruccia, F. and della Torre, A. (2011) Molecular evolution of a gene cluster of serine proteases expressed in the *Anopheles gambiae* female reproductive tract. *BMC Evolutionary Biology*, 11:72 doi:10.1186/1471-2148-11-72
  18. Chailyan, A., Marcatili, P., Tramontano, A. (2011) Structural repertoire of immunoglobulin  $\lambda$  light chains. *Proteins*, 79(5):1513-24.
  19. Leoni, G., Le Pera, L., Ferre', F., Raimondo, D., Tramontano, A. Coding potential of the products of alternative splicing in human. (2011) *Genome Biology* 12:R9 doi:10.1186/gb-2011-12-1-r9
  20. Chinappi M., Via A., Marcatili P., Tramontano A. On the Mechanism of Chloroquine Resistance in *Plasmodium falciparum*. (2010) *PLoS ONE* 5(11): e14064. doi:10.1371/journal.pone.001406
  21. Zanzoni A., Carbajo D., Diella F., Gherardini P.F., Tramontano A., Helmer-Citterich M., Via A. Phospho3D 2.0: An enhanced database of three-dimensional structures of phosphorylation sites (2011) *Nucleic Acid Research, Database issue*. 39:d268-d271
  22. Le Pera, L., Marcatili, P., Tramontano, A. Picmi: mapping point mutations on genomes (2010) *Bioinformatics*, 26(22): 2904-2905
  23. Zibellini, S., Capello, D., Forconi, F., Marcatili, P., Rossi, D., Rattotti, S., Franceschetti, S., Sozzi, E., Cencini, E., Marasca, R., Baldini, L., Tucci, A., Bertoni, F., Passamonti, F., Orlandi, E., Varettoni, M., Merli, M., Rizzi, S., Gattei, V., Tramontano, A., Paulli, M., Gaidano, G., and Arcaini, L. Stereotyped patterns of B-cell receptor in splenic marginal zone lymphoma (2010) *Haematologica*, doi:10.3324/haematol.2010.025437
  24. Giombini, E., Orsini, M., Carabino, D. and Tramontano, A. An automatic method for identifying surface proteins in bacteria: SLEP (2010) *BMC Bioinformatics* 2010, 11:39
  25. Maullu, C., Raimondo, D., Caboi, F., Giorgetti, A., Sergi, M., Valentini, M., Tonon, G., Tramontano, A. Site-directed enzymatic PEGylation of the Human Granulocyte Colony Stimulating Factor. (2009) *FEBS J*.276: 7474-7596

26. Tramontano, A Bioinformatics. In: Encyclopedia of Life Sciences (ELS). John Wiley & Sons, Ltd: Chichester. (2009) DOI: 10.1002/9780470015902.a0001900.pub2
27. Tramontano, A. No protein is an island. *Current Opin. Struct. Biol.* (2009) 19(3): 310-311
28. Moult, J., Fidelis, K., Kryshtafovych, A., Rost, B. and Tramontano, A. Critical Assessment of Protein Structure Prediction (CASP) - Round VIII. (2009) *Proteins*, 77: 1-4
29. Cozzetto, D., Kryshtafovych, A. and Tramontano, A. Evaluation of CASP8 Model Quality Predictions. (2009) *Proteins* 77: 157-166
30. Cozzetto, D., Kryshtafovych, A., Fidelis, K., Moult, J., Rost, B. and Tramontano, A. Evaluation of template-based models in CASP8 with standard measures. (2009) *Proteins*, 11:18-28
31. Loewenstein, Y., Raimondo, D., Redfern, O., Watson, J. Frishman, D., Linial, M., Orengo, C., Thornton, J., Tramontano, A. Protein function annotation by homology-based inference *Genome Biology*, (2009) 10:207 .
32. Raimondo, D., Giorgetti, A., Bernassola, F., Melino G., Tramontano, A. Modelling and molecular dynamics of the interaction between the E3 ubiquitin ligase Itch and the E2 UbcH7 (2008) *Molecular Pharmacology*, 76 (11): 1620-1627
33. Tramontano, A., Jones, D., Rychlewski, L., Casadio, R. Martelli, P., Raimondo, D. and Giorgetti, A. (2008) In Frishman, D. and Valencia, A. (eds.), *Modern genome annotation: the BioSapiens network*. Springer. ISBN: 978-3-211-75122-0
34. Marcatili, P., Rosi, A. and Tramontano, A. PIGS: Automatic prediction of antibody structures (2008) *Bioinformatics*, 24(17):1953-1954.
35. Lacal, P.M, Morea, V., Ruffini, F., Orecchia, A., Dorio, A.S., Failla, C. M., Soro, S., Tentori, L., Zambruno, G., Graziani, G., Tramontano, A. and D'atri, S. Inhibition of Endothelial Cell Migration and Angiogenesis by a Vascular Endothelial Growth Factor Receptor-1 derived peptide (2008) *Eur. J. Cancer*, 4(13): 1914-1921
36. Occhino, M., Ghiotto, F., Soro, S., Mortarino, M., Bosi, S., Maffei, M., Bruno, S., Nardini, M., Figini, M., Tramontano, A. and Ciccone, E. Dissecting the Structural Determinants of the Interaction between the Human Cytomegalovirus UL18 Protein and the CD85j Immune Receptor (2008) *J. of Immun.*, 180:957-968.
37. Ausiello, G., Gherardini, P.F., Marcatili, P., Tramontano, A., Via, A., Helmer-Citterich, M. FunClust: A web server for the identification of structural motifs in a set of non-homologous proteins. (2008) *BMC Bioinformatics*, 9:S2
38. Marcatili, P., Bussotti, G., Tramontano, A. The MoVin server (2008) *BMC Bioinformatics*, 9:S11
39. Montanari, A., Besagni, C., De Luca, C., Morea, V., Oliva, R., Tramontano, A., Bolotin-Fukuhara, M., Frontali, L. and Francisci, S. Yeast as a model of human mitochondrial tRNA base substitutions: Investigation of the molecular basis of respiratory defects (2008) *RNA*, 14: 275-283.
40. Cozzetto, D., Giorgetti, A., Raimondo, D. and Tramontano, A. The evaluation of protein structure prediction results. (2008) *Molecular Biotechnology* 39: 1-8
41. Guariento, M., Raimondo, D., Assfalg, M., Zanzoni, S., Pesente, P., Ragona, L., Tramontano, A. and Molinari, H. Identification and functional characterization of the bile acid transport proteins in non-mammalian ileum and mammalian liver. (2008) *Proteins*, 70: 462-372
42. Soro, S., Orecchia, A., Lacal, P.M., Morea, V., Ballmr-Hofer, K., Ruffini, F., Ziche, M., Zambruno, G., Tramontano, A. and Failla, C.M. (2007) A proangiogenic peptide derived from vascular endothelial growth factor receptor-1 acts through alpha5beta1 integrin (2008) *Blood*, 111:3479-3488.
43. Tramontano, A. and Pearson, W.R. The completeness of biological space (2007) *Curr. Op. Struct. Biol.* 17:334-336

44. Moulton, J., Fidelis, K., Kryshtafovych, A., Rost, B., Hubbard, T. and Tramontano, A. Critical Assessment of Protein Structure Prediction (CASP) - Round VII. (2007) *Proteins*, 8:3-9.
45. Cozzetto, D., Kryshtafovych, A., Ceriani, M. and Tramontano, A. Assessment of predictions in the Model Quality Assessment category. (2007) *Proteins*, 8:175-183
46. Oliva, R., Tramontano, A., Cavallo, L. Mg<sup>2+</sup> Binding and Archaeosine Modification stabilize the G15-C48 Levitt base pairs in tRNAs (2007) *RNA*, 13: 1427-1436.
47. Carrabino, D., D'Onorio De Meo, P., Sanna, N., Castrignano', T. Orsini, M., Floris, M. and Tramontano, A. The mepsMAP server (2007) *IEEE Transactions on nanobiosciences*, 6(2),155-161
48. Bertoni, C., Tramontano, A. A model of the complex between the PfEMP1 Malaria Protein and the Human ICAM-1 Receptor (2007) *Proteins*, 69(2), 215-222.
49. Tress, M., Martelli, P.L., Frankish, A., Reeves, G., Wesselink J.J., Yeats, C., Olason, P.I., Albrecht, M., Hegyi H., Giorgetti, A., Raimondo, D., Lagarde, J., Laskowski, R., Lopez, G., Sadowski, M.I., Watson, J., Fariselli, P., Rossi, I., Nagy, A., Kai, W., Stoerling, Z., Orsini, M., Assenov, Y., Blakenburg, H., Huthmacher, C., Ramirez, F., Schlicker, A., Denoued, F., Jones, P., Kerrien, S., Orchard, S., Birney, E., Brunak, S., Casadio, R., Guigo, R., Harrow, J., Hermjakob, H., Jones, D.T., Lengauer, T., Orengo, C., Patthy, L., Thornton, J., Tramontano, A., Valencia, A. The implications of alternative splicing in the ENCODE protein complement. (2007) *Proc. Natl. Acad. Sci.*, 104, 5495-5500
50. Bianchetti, G., Bonaccini, C., Oliva, R., Tramontano, A., Cividini, A., Casato, M., Merlini, G., Silini, E. and Mondelli, M.U. Analysis of Hepatitis C virus hypervariable region 1 sequence in cryoglobulinemic patients and associate controls (2007) *J. Virol.* 81, 4564-4571
51. Ragno, R., Simeoni, S., Castellano, S., Vicidomini, C., Mai, A., Tramontano, A., Bonaccini, C., Trojer, P., Bauer, I. and Sbardella, G. Small molecule inhibitors of histone arginine methyltransferase: homology modeling, molecular docking, binding mode analysis and biological evaluation. (2007) *J. Med. Chem.* 50, 1241-1253
52. Tramontano, A. Worth the effort: an account of the Seventh meeting of the worldwide critical assessment of Techniques for Protein Structure Prediction (2007) *FEBS J.*, 274, 1651-1654.
53. Castrignano', T., D'Onorio De Meo, P., Carrabino, D., Orsini, M., Floris, M. and Tramontano, A. The MEPS server for identifying protein conformational epitopes (2007) *BMC Bioinformatics* 10:1186/1471-2105-8-S1-s&
54. Kinzel, O., Fattori, D., Muraglia, E., Gallinari, P., Nardi, M.C., Paolini, C., Roscilli, G., Toniatti, C., Gonzales-Paz, O., Laufer, R., Lahm, A., Tramontano, A., Cortese, R., De Francesco, R. A structure-guided approach to an orthogonally estrogen-receptor-based gene switch activated by ligands suitable for in vivo studies. (2006) *J. Med. Chem.* 49(18) 5404-5407.
55. Raimondo, D., Giorgetti, A., Bosi, S. and Tramontano, A. An automatic procedure for using models of proteins in molecular replacement, (2006) *Proteins*, 66:689-696.
56. Oliva, R., Cavallo, L. and Tramontano, A. Accurate energies of hydrogen bonded nucleic acid base pairs and triplets in tRNA tertiary interactions (2006) *Nucl. Acids Res.* 34(3), 865-879.
57. Magnani, M., Ortuso, F., Soro, S., Alcaro, S., Tramontano, A. and Botta, M. The betaI/betaIII tubulin isoforms and their complexes with antimetabolic agents: docking and molecular dynamics studies. (2006) *FEBS J.* 273 (14), 3301-3310.
58. Pellegrini Calace, M., Soro, S. and Tramontano, A. Revisiting the prediction of protein function at CASP6 (2006) *FEBS J.* 273, 2977-2983.
59. Tress, M., Cozzetto, D., Tramontano, A. and Valencia, A. An analysis of the Sargasso See Resource and the consequences of database composition (2006) *BMC Bioinformatics* 7, 213.

60. Tramontano, A. The role of molecular modelling in biomedical research (2006) *FEBS Lett.*, 580 (12), 2928-2934.
61. Pellegrini-Calace, M. and Tramontano, A. Identification of a novel putative mitogen-activated kinase cascade on human chromosome 21 by computational approaches. (2006) *Bioinformatics*, 22, 775-778
62. Gianazza, E., Vergani, L., Brizio, C., Brambilla, D., Begum, S., Giancaspero, T.A., Conserva, F., Eberini, I., Angelini, C., Pegoraro, E., Tramontano, A. and Barile, M. Coordinated and reversible reduction of enzymes involved in oxidative metabolism in skeletal muscle mitochondria from a riboflavin-responsive, multiple acyl-CoA dehydrogenase deficiency (RR-MAD) patient (2006) *Electrophoresis*, 27 1182-1198.
63. Castrignano', T., D'Onorio De Meo, P., Cozzetto, D., Talamo, I. and Tramontano, A. The PMDB Protein Model Database (2006) *Nucleic Acids Research*, 34, 306-309
64. Brenner, S., Tramontano, A. (2005) Sequences and topology: a decade of genomes, *Curr. Opin. Struct. Biol.*, 15(3) 245-247.
65. Raimondo, D., Giorgetti, A., Miele, AE., Tramontano, A. Evaluating the usefulness of protein structure models for molecular replacement (2005) *Bioinformatics*, 21(S2) 72-76.
66. Moulton, J., Fidelis, K., Rost, B., and Hubbard, T. and Tramontano, A. Critical Assessment of Methods of Protein Structure Prediction (CASP) - Round VI (2005) *Proteins*, S7, 3-7.
67. Soro, S., Tramontano, A. (2005) Function Prediction at CASP6, *Proteins*, S7, 214-224.
68. Francisci, S., De Luca, C. Oliva, R., Morea, V., Tramontano, A. and Frontali, L.,. Aminoacylation and conformational properties of yeast mitochondrial mutants with respiratory deficiency (2005) *RNA*, 11: 914-927.
69. Cozzetto, D., Di Matteo, A. and Tramontano, A. Ten years of prediction ... and counting. (2005) *FEBS Journal*, 272, 881-882.
70. Cozzetto, D., Tramontano, A. The relationship between multiple sequence alignment and the quality of protein comparative models. (2004) *Proteins*, 58, 151-157.
71. Tramontano, A. 2004 A brighter future for protein design. (2004) *Angewandte Chemie*, 116,2-3.
72. Ghiotto, F., Fais, F., Valetto, A., Albesiano, E., Hashimoto, S., Dono, M., Ikematsu, H., Allen, S.L., Rai, K.R., Nardini, M., Tramontano, A., Ferrarini, M., Chiorazzi, N. Remarkably similar antigen receptors in a subset of patients with IgG+ chronic lymphocytic leukemia. (2004) *Journal Clin. Inv.* 113:1008-1016
73. Tramontano, A., Morea, V. Assessment of homology based predictions in CASP 5. ((2003)) *Proteins* 52 (Suppl. 7) 352-368
74. Travaglini-Allocatelli, C., Gianni, S., Morea, V., Tramontano, A., Soulimane, T. and Brunori, M. Exploring the cytochrome c folding: cyt c552 from *Thermus Thermophilus* folds through and on-pathway intermediate ((2003)) *J. Biol. Chem.* 278(42) 41136-41140
75. Donini, M., Morea, V., Desiderio, A., Pashkoulou, D., Villani, M.E., Tramontano, A. and Benvenuto, E. Engineering stable cytoplasmic intrabodies with designed specificity. (2003) *J. Mol. Biol.* 330(2) 323-332
76. Iliopoulos, I., Tsoka, S., Andrade, M.,..., Tramontano, A.,..., Ouzounis, C. Evaluation of annotation strategies using an entire genome sequence. (2003) *Bioinformatics*, 19: 717-726
77. Tramontano, A. Of men and machines (2003) *Nat. Str. Biol.* 10:87-90.
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79. Notomista, E., A. Lahm, A. Di Donato & A. Tramontano. Evolution of Bacterial and Archeal Multicomponent Monooxygenases. (2003). *J. Mol. Evol.* 56: 435-445.



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81. Moulton, J., K. Fidelis, A. Zemla, T. Hubbard & A. Tramontano. The significance of performance ranking in CASP. (2002) *Structure* 10: 291-2.
82. Cappello, V., A. Tramontano & U. Koch. Classification of proteins based on the properties of the ligand-binding site: the case of adenine-binding proteins. (2002) *Proteins* 47: 106-15.
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