

1. Anil Sorathiya, Pietro Lio' and Andrea Bracciali. In silico approaches to anti-Hiv and tuberculosis therapies. APBC 2010 – BMC Bioinformatics
2. Marco Fondi, Giovanni Emiliani, Pietro Liò, Simonetta Gribaldo and Renato Fani1The molecular evolution of histidine biosynthesis in Archaea; insights into the his genes structure and organization in LUCA Journal Molecular Evolution (in press)
3. Lucia Bianchi e Pietro Lio' La genomica forense. Le Scienze. Italian edition of Scientific American, September 2009, 493: 90-97.
4. Milanesi Luciano, Romano Paolo, Castellani Gastone, Remondini Daniel, Liò Pietro Trends in modeling Biomedical Complex Systems BMC Bioinformatics (in press)
5. Richard C. van der Wath, Anne Wilson, Elisa Laurenti, Andreas Trumpp, Pietro Lio' Estimating Dormant and Active Hematopoietic Stem Cell Kinetics through Extensive Modeling of Bromodeoxyuridine Label-Retaining Cell Dynamics - in press on plos ONE (in press)
6. Shengkun Xie, Pietro Lio', Anna T. Lawniczak A Comparative Study of Noise Effect on Wavelet Based De-noising Methods in press on Tic STH IEEE 2009 Toronto (in press)
7. Shu Yan Chan, Ian X. Y. Leung, Pietro Liò Fast Centrality Approximation in Modular Networks. Complex Networks in Information & Knowledge Management (CNIKM)
8. Yu-En Lu, Sam Roberts, Pietro Lio, Robin Dunbar and Jon Crowcroft On Optimising Personal Network Size to Manage Information Flow. Complex Networks in Information & Knowledge Management (CNIKM)
9. Viet-Anh Nguyen and Pietro Liò Measuring similarity between gene expression profiles: A Bayesian approach InCoB2009 BMC Genomics/Bioinformatics
10. C Angelini, I De Feis, R van der Wath, V Nguyen, P. Liò Combining replicates and nearby species data: methodologies, examples and results interpretation 6th International Meeting on Computational Intelligence Methods for Bioinformatics and Biostatistics 2009, LNCS
11. Yu-En Lu, Sam Roberts, Pietro Lio, and Robin Dunbar, Evolution and Cognitive Constraints in Social Networks In Proceedings of IEEE International Conference on Social Computing, Vancouver, Canada
12. Sorathiya A, P. Liò, and L. Sguanci Mathematical model of HIV superinfection and comparative drug therapy ICARIS 2009, LNCS
13. G. Bella, P. Liò Analysing the microRNA-17-92/Myc/E2F/RB Compound Toggle Switch by Theorem Proving. Proceedings Nettare 2009

14. G. Bella and P Lio' Formal Analysis of the Genetic Toggle LNBI 5688 CMSB 2009, Degano and Gorrieri (eds), Springer-Verlag, pag 96-110
15. A Guazzini, P Lio', A Passarella, and M Conti Information processing and time inversion in vision LNCS ICANN 2009
16. S Xie, P Lio', A T. Lawniczak A Case Study of ICA with Multi-scale PCA of Simulated Traffic Data LNCS ICANN 2009
17. T. Cheng, E. Yue En Lu, P Lio' Identification of structurally important amino acids in proteins by graph-theoretic measures. StReBio'09 ACM
18. Xiaofeng Lu, Fletcher Wicker, Pietro Lio, Zhang Xiong, and Don Towsley Security Benefit Estimation of Directional Communication WPC-SI - wireless personal communications
19. Ian X.Y. Leung, Pan Hui, Pietro Lio', Jon Crowcroft Towards real-time community detection in large networks Phys Rev E Stat Nonlin Soft Matter Phys. 2009 Jun;79(6 Pt 2):066107. Epub 2009 Jun 16.
20. K Xu, P Huiz, V O. K. L, J Crowcroft, V Latora, Liò P. Selfishness, Altruism and Message Spreading in Social Networks NetSciCom'09 First IEEE International Workshop on Network Science For Communication Networks.
21. E. Schwarz, S. Bahn, Liò P. Clinical Bioinformatics for Complex Disorders: a schizophrenia case study. BMC Bioinformatics (in press)
22. Xiaofeng Lu, Pan Hui, Pietro Liò, Zhang Xiong Identity Privacy Protection by Delayed Transmission in Pocket Switched Networks Symposium on Trust, Security and Privacy for Pervasive Applications IEEE, Shanghai,2008.
23. X Lu, F Wicker, D Towsley, Z Xiong, Liò P. A Novel Mobility Model from a Heterogeneous MANET Trace Lecture Notes in Computer Science, Ad-hoc, Mobile and Wireless Networks.
24. X Lu, F Wicker, D Towsley, Z Xiong, Liò P. Anonymous Routing in Ad Hoc Networks using Directional Antennas. EURASIP Journal on Wireless Communications and Networking
25. S Kitchovitch, Y Song, I Leung and Liò P. Using Mutual Information and Models of Evolution for improved pattern detection IJCBS09 Shangai IEEE Computer Society
26. S. Kitchovitch, Y Song, R van der Wath, P Lio' Substitution matrices and mutual information approaches to modeling evolution. LNCS - MALIOB 2009 Machine learning and intelligent optimization in bioinformatics
27. Anne Wilson, Elisa Laurenti, Gabriela Oser, Richard C. van der Wath, William Blanco-Bose, Maike Jaworski, Sandra Offner, Cyrille F. Dunant, Leonid Eshkind, Ernesto Bockamp, Pietro Li`o, H. Robson Mac-Donald, Andreas Trumpp. Hematopoietic stem cells reversibly switch from

dormancy to self-renewal during homeostasis and repair. *Cell*. 2008 Dec 12;135(6):1118-29. This paper has received a Faculty of 1000 Biology rating of 9.8 (Exceptional), see <http://f1000biology.com/article/id/1144922>

28. M Brilli, A Mengoni, M Fondi, M Bazzicalupo, P Liò and R Fani (2008) Analysis of plasmid genes by phylogenetic profiling and visualization of homologous relationships using Blast2Network. *BMC Bioinformatics* (in press)
29. F. Stajano, L. Bianchi, P. Lio', D. Korff (2008) Forensic Genomics:kin privacy, driftnets and other open questions WPES 2008 - ACM Workshop on Privacy in the Electronic Society.
30. T Cheng, Yu-En Lu,, Vendruscolo, Blundell T Prediction by Graph Theoretic Measures of Structural Effects in Proteins Arising from Non-Synonymous Single Nucleotide Polymorphisms. *Plos Computational Biology*.
31. I.X.Y. Leung, G. Gibbs, F. Bagnoli, A. Sorathiya Contact Network Modeling of Flu Epidemics, H. Umeo et al. (Eds): ACRI 2008, LNCS 5191, pp. 354-361, 2008
32. Richard C. van der Wath, Pietro Lio' A Stochastic Multi-agent Model of Stem Cell Proliferation H. Umeo et al. (Eds): ACRI 2008, LNCS 5191, pp. 500-505, 2008. Springer-Verlag Berlin Heidelberg 2008
33. E van der Wath, R van der Wath, F. Frati, F. Nardi , Liò P. Bayesian phylogeny on Grid Lecture Notes in Bioinformatics" (LNBI) by Springer Verlag (accepted)
34. E. Schwarz, S. Bahn, Liò P. Combining Molecular and Physiological Data of Complex Disorders Lecture Notes in Bioinformatics" (LNBI) by Springer Verlag (accepted)
35. A Stochastic Single Cell Based Model of BrdU Measured Hematopoietic Stem Cell Kinetics M. Heiner and A.M. Uhrmacher (Eds.): CMSB 2008, LNBI 5307, pp. 387-401, 2008. c Springer-Verlag Berlin Heidelberg 2008
36. Liò P., M. Brilli and R. Fani Topological metrics in Blast data mining: plasmid and nitrogen-fixing proteins case studies. Bird 2008 Lecture Notes in Bioinformatics" (LNBI) by Springer Verlag (accepted)
37. F. Bagnoli, A. Guazzini, Liò P. Human Heuristics for Autonomous Agents. P. Lio' et al. (Eds.): BIOWIRE 2007, LNCS 5151, pp. 340-351, 2008. Springer-Verlag Berlin Heidelberg 2008
38. Kw. Lee, V. Pappas, Liò P. M. Gerla, U. Lee, P. Bellavista Bio-inspired Multi-Agent Urban Data Harvesting in Vehicular Sensing Platforms Biowire Lecture Notes in Computer science. Springer Verlag 2008

39. Kw. Lee, V. Pappas, Liò P. M. Gerla, U. Lee, P. Bellavista Bio-inspired Multi-Agent Data Harvesting in a Proactive Urban Monitoring Environment. Adhoc network special issue.
40. P Lio, A T. Lawniczak, S Xie, J Xu Wavelet-domain statistics of packet switching networks near traffic congestion. P. Lio' et al. (Eds.): BIOWIRE 2007, LNCS 5151, pp. 268-279, 2008. Springer-Verlag Berlin Heidelberg 2008
41. C Angelini, L Cutillo, I De Feis, R van der Wath Combining experimental evidences from nearby species data for annotating novel genomes. AIP Conf. Proc. -- July 3, 2008 -- Volume 1028, pp. 277-291 COLLECTIVE DYNAMICS: TOPICS ON COMPETITION AND COOPERATION IN THE BIOSCIENCES: A Selection of Papers in the Proceedings of the BIOCOMP2007 International Conference; doi:10.1063/1.2965094
42. Y.E. Lu, P. Lio' S. Hand Beta Random Projection P. Lio' et al. (Eds.): BIOWIRE 2007, LNCS 5151, pp. 319-331, 2008. Springer-Verlag Berlin Heidelberg 2008
43. P Lio, Anna T. Lawniczak, Shengkun Xie, Jiaying Xu Parametric and nonparametric analysis of mean treatment effects of number of packets in transit in data network model CCECE 2008
44. Z. Nicola-Koulikova and F. Bagnoli Inference on Missing Values in Genetic Networks Using High-Throughput Data E. Marchiori and J.H. Moore (Eds.): EvoBIO 2008, LNCS 4973, pp. 106-116, 2008. Springer-Verlag Berlin Heidelberg 2008
45. M. Brillì, R. Fani, P. Lio' Current trends in the bioinformatic sequence analysis of metabolic pathways in prokaryotes Briefing in Bioinformatics Brief Bioinform. 2008 Jan;9(1):34-4
46. V.A. Nguyen, Z. Nicola-Koulikova, F. Bagnoli, P. Lio' Bayesian inference on hidden knowledge in high-throughput molecular biology data. Lectures Notes in Artificial Intelligence (LNAI). Tenth Pacific Rim International Conference on Artificial Intelligence (PRICAI-08) T.-B. Ho and Z.-H. Zhou (Eds.): PRICAI 2008, LNAI 5351, pp. 829-838, 2008. Springer-Verlag Berlin Heidelberg 2008
47. Lio' P. Inferring topological and dynamical properties of immune, genetic and social networks and their relation to technological networks ICIAM 07 Proceedings
48. Cecile Caretta Cartozo, Paolo De Los Rios, Francesco Piazza, Pietro Lio' Bottleneck genes and community structure in the cell cycle network of *S. pombe* PLOS Computational Biology 2007 Jun;3:e103 [link to download](#)
49. Sguanci L, Liò P, and Bagnoli F Modeling HIV quasispecies evolutionary dynamics. BMC Evol Biol. 2007 Aug 16;7. [link to download](#)

50. Uichin Lee, Eugenio Magistretti, Mario Gerla, Paolo Bellavista, Pietro Lio', Kang-Won Lee \square Bio-inspired Multi-Agent Data Harvesting in a Proactive Urban Monitoring Environment (submitted)
51. C Papetti, P Liò, L Rüber, R Zardoya, T Patarnello Antarctic fish mitochondrial genomes lack ND6 gene *Journal Molecular EVolution* 65:519-528.
52. F. Bagnoli, P. Liò, L. Sguanci. Risk perception in epidemic modeling *Physical review. E, Statistical, nonlinear, and soft matter physics.* 2007, vol. 76 (1), no6, [Note(s): 061904.1-061904.7
53. E Weston, A Friday, P Lio' Biometric Evidence that sexual selection has shaped hominin face *PLoS ONE* Aug 8; 2:e710
54. Zdena Koukolikova-Nicola, Pietro Lio', Franco Bagnoli Predictability in proteomics and Genetics Networks FOSBE2007
55. Feng Chen, Vincent Archambault, Ashok Kar, Pietro Lio', Pier Paolo D'Avino, Rita Sinka, Kathryn Lilley, Ernest D Laue, Peter Deak, Luisa Capalbo, David Glover Requirement for multiple protein phosphatases in cell-cycle progression *Current Biology* 2007 17:293-303
56. Renato Fani \square Matteo Brilli, Marco Fondi and Pietro Lio' The role of gene fusions in the evolution of metabolic pathways: the histidine biosynthesis case. *BMC Evol Biol.* 2007 Aug 16;7
57. Elizabeth van der Wath, Loukas Moutsianas, Richard van der Wath, Alet Visagie, Luciano Milanesi and Pietro Lio` Grid methodology for identifying co-regulated genes and transcription factor binding sites *IEEE Transactions on NanoBioscience* 6:162-167.
58. Angelini C, Cutillo L, De Feis I, van der Wath R, Lio' P, Identifying regulatory sites using neighborhood species. *EOBIO 2007 5th European Conference On Evolutionary Computation Machine Learning And Data Mining In Bioinformatics, Valencia, Spain, 11-13 April 2007.* E. Marchiori, J.H. Moore, and J.C. Rajapakse (Eds.): *EvoBIO 2007, LNCS 4447*, pp. 1-10, 2007. Springer-Verlag Berlin Heidelberg 2007
59. Anna T. Lawniczak, Pietro Lio`, Shengkun Xie, Jiaying Xu STUDY OF PACKET TRAFFIC FLUCTUATIONS NEAR PHASE TRANSITION POINT FROM FREE FLOW TO CONGESTION IN DATA NETWORK MODEL CCECE2007
60. Anna T. Lawniczak, Pietro Lio`, Shengkun Xie, Jiaying Xu, WAVELET SPECTRAL ANALYSIS OF PACKET TRAFFIC NEAR PHASE TRANSITION POINT FROM FREE FLOW TO CONGESTION IN DATA NETWORK MODEL CCECE2007
61. A Carapelli, P Liò, F Nardi, E van der Wath, F Frati Phylogenetic analysis of mitochondrial protein coding genes confirms the reciprocal paraphyly of Hexapoda and Crustacea. *BMC Evol Biol.* 2007 Aug 16;7.

62. M. Brillì, R. Fani, P. Lio' MotifScorer: using a compendium of microarrays to identify regulatory motifs *Bioinformatics* 2007;23:493-5.
63. Pietro Lio' Wavelet algorithms for time series analysis and synchronization. submitted *Bioinformatics*
64. Bianchi L. and Pietro Lio' *Bioinformatics and forensic DNA evidences Brief. Bioinformatics*
65. Eric Yu-En Lu, Steven Hand, Pietro Lio' Keyword Searching in Structured Overlays via Content Distance Addressing Fourth International Workshop on Databases, Information Systems and Peer-to-Peer Computing - G. Moro et al. (Eds.): DBISP2P 2005/2006, LNCS 4125, pp. 259-272, 2007. c Springer-Verlag Berlin Heidelberg 2007
66. L. Sguanci, P. Liò and F. Bagnoli, The influence of risk perception in epidemics: a cellular agent model, proceedings of the 7th International Conference on Cellular Automata for Research and Industry ACRI2006, Perpignan, France September 2006, S. El Yacoubi, B. Chopard and S. Bandini, editors (Lecture Notes in Computer Science LNCS 4773, Springer, Berlin 2006) pp. 321-329, q-bio.PE/0607010.
67. Ambesi-Impiomato A., M Bansal, Liò P, di Bernardo D., Computational Framework for the Prediction of Transcription Factor Binding Sites: integrating multiple data sources. In press *BMC Neuroscience*.
68. L. Sguanci, P. Li'ò and F. Bagnoli, Modeling Evolutionary Dynamics of HIV Infection in Computational Methods in Systems Biology, proceedings of the International Conference CMSB 2006, Trento, Italy, October 18-19, 2006, S. Istrail, P. Pevzner and M. Waterman, editors, (Lecture Notes in Computer Science LNCS 4210, Springer, Berlin 2006) pp. 196-211 q-bio.PE/0603003.
69. Liò P, Brill M., Fani R., *Bioinformatics of gene families in Structural approaches to sequence evolution: Molecules, networks, populations* (H. R. U. Bastolla, M. Porto and M. Vendruscolo, eds.), vol. NA of Biological and Medical Physics, Biomedical Engineering, p. NA, New York: Springer Verlag, NA 2006.
70. Gilks, W.R., Nye, T.M.W. & Lio, P. (2006). Reconstructing phylogenetic trees from distance matrices, incorporating uncertainty In S. Barber, P.D. Baxter, K.V.Mardia, & R.E. Walls (Eds.), *Interdisciplinary Statistics and Bioinformatics*, pp. 101-103. Leeds, Leeds University Press.
71. Fani R, Brillì M, Liò Inference in proteobacterial operon shows piecewise organization *J Mol Evol.* 2006, 63:577-80.
72. Sguanci L., Liò P, Bagnoli F. Mathematical Model of HIV superinfection dynamics and R5 to X4 switch. Arxiv preprint q-bio.PE/0603003, 2006.
73. Bagnoli F., Liò P. and Sguanci L. Modeling Viral co-evolution: HIV multi-clonal persistence and competition dynamics. *Physica A* 366: 333-346

74. Yu-En Lu, Steven Hand, and Pietro Liò (2005), Keyword Search in Hypercubic Manifolds, The Fifth IEEE International Conference on Peer-to-Peer Computing, Konstanz, Germany.
75. Nye TM, Liò P, Gilks WR. A novel algorithm and web-based tool for comparing two alternative phylogenetic trees. *Bioinformatics*. 2005[Advance Access Publication October 2005; doi:10.1093/bioinformatics/bti720]
76. Fani R, Brillì M, Liò (2005) The origin and evolution of operons: the piecewise building of the proteobacterial histidine operon. *J Mol Evol*. 60:378-90.
77. Liò P (2005) Phylogenetic and structural analysis of mitochondrial complex I proteins. *Gene* 345:55-64.
78. Piazza F, Liò P (2005) Statistical analysis of simple repeats in the human genome. *Physica A* 347:472-488. Arxiv preprint q-bio.GN/0502009, 2005
79. Carapelli A, Nardi F, Dallai R, Boore J.L, Lio' P., Frati F Relationships between hexapods and crustaceans based on mitochondrial genomics.
80. Liò P and Bishop M (2005) *Bioinformatics and Sequence Analysis*. Encyclopaedia of Molecular Medicine.
81. Rustici G, Mata J, Kivinen K, Liò P, Penkett CJ, Burns G, Hayles J, Brazma A, Nurse P, Bahler J. (2004) Periodic gene expression program of the fission yeast cell cycle. *Nature Genetics* Jun 13 [Epub ahead of print].
82. Liò P and Goldman N (2004) Phylogenomics and Bioinformatics of Sars-CoV *Trends Microbiol*. 12:106-111.
83. Tadesse, M.G., Vannucci, M. and Liò, P. (2004). Identification of DNA regulatory motifs using Bayesian variable selection. *Bioinformatics*, 20, 2553-2561.
84. Liò P (2003) Dimensionality and dependence problems in statistical genomics. *Brief Bioinform*. 4: 168-77.
85. Liò P (2003) Statistical bioinformatic methods in microbial genome analysis. *Bioessays*. 25: 266-73.
86. Liò P (2003) Wavelets in bioinformatics and computational biology: state of art and perspectives. *Bioinformatics* 19:2-9.
87. Liò, P. and Vannucci, M. (2003). Investigating the evolution and structure of chemokine receptors. *Gene*, 317, 29-37.
88. Liò P. (2003) Il genoma della Sars. *Le Scienze*, Giugno 2003.
89. Liò P. (2003) Gnomi e Genomi. *Le Scienze*, Dicembre 2003.
90. Skaer N, Pistillo D, Gibert JM, Lio P, Wulbeck C, and Simpson P (2002) Gene duplication of the achaete-scute complex and morphological

- complexity of the peripheral nervous system in diptera. Trends in Genetics. 18:399-405
91. Liò P (2002) Investigating the relationship between genome structure, composition and ecology in prokaryotes. *Mol. Biol. and Evol.* 19:789-800.
 92. Liò P. (2002) Una vita per le proteine. *Le Scienze*, February 2002.
 93. Liò P and Goldman N (2002) Modeling mitochondrial protein evolution using structural information submitted to *J. Molecular Evolution*. 54:519-529.
 94. Bogani P, Simoni A, Liò P, Germinario A., and Buiatti M. (2001) Molecular variation in plant cell populations evolving in vitro in different physiological contexts. *Genome* 44:549-558
 95. Vannucci, M. and Liò, P. (2001). Non-decimated wavelet analysis of biological sequences: Applications to protein structure and genomics. *Sankhya, Series B*, 63(2), 218-233
 96. Whelan, S, Liò P and Goldman N, (2001) Molecular phylogenetics: state-of-art methods for looking into the past (2001) *Trends in Genetics* 17:262-272
 97. Liò P and Goldman N Modeling mitochondrial protein evolution using structural information. *J. Molecular Evolution*
 98. Massingham, T, Davies LJ, and P. Liò (2001) Analysing gene function after duplication *Bioessays* 23:873-876.
 99. Liò P. (2001) Le nuove sfide della filogenesi molecolare - *Le Scienze*, Febbraio 2001
 100. Liò P. (2001) Dal Genoma al Fisioma - *Le Scienze*, Luglio 2001 - Italian edition of *Scientific American*.
 101. Liò, P. and Vannucci, M. (2000). Wavelet change-point prediction of transmembrane proteins. *Bioinformatics*, 16(4), 376-382.
 102. Fani R., Gallo R. and Liò P. (2000) Molecular Evolution of the nitrogen fixation (nif) genes: reconstruction of the evolutionary history of nifD, nifK, nifE, and nifN genes. *J Mol Evol.* 51:1-11.
 103. Thomas NS, Wilkinson J, Liò P, Doull I, Morton NE, Holgate ST. (2000) Genetic factors involved in asthma and atopy. *Studies in British families Rev Mal Respir.* 17:177-82.
 104. Liò, P. and Vannucci, M. (2000). Finding pathogenicity islands and gene transfer events in genome data. *Bioinformatics*, 16: 932-940. <http://www.cl.cam.ac.uk/~pl219/aa.pdf> .
 105. Hagelberg E., Goldman N., Liò P., Schiefenhoevel W., Bowden D., Clegg J.B. (1999) Molecular Genetic Evidence for the human settlement of

the pacific: analysis of mitochondrial DNA, Y chromosome and HLA markers. *Philosophical Transactions of the Royal Society: Biological Sciences*

106. Hagelberg E., Goldman N., Liò P., Whelan S., Schiefenhoevel W., Bowden, D., Clegg J.B. (1999) Evidence for mitochondrial recombination in a human population. *Proc R Soc Lond B Biol Sci.* 266:485-92
107. Mori E., Liò P., Daly S., Damiani G., Perito B. and Fani R. (1999) Molecular nature of RAPD markers from *Haemophilus influenzae* Rd genome. *Research Microbiology* 150:83-93.
108. Liò P. and Goldman N. (1999) Using Protein Structural Information in Evolutionary Inference: Transmembrane proteins. *Mol. Biol. and Evol.* 16: 1696-1710. <http://www.cl.cam.ac.uk/~pl219/aa.pdf>
109. Liò P. and Goldman N. (1998) Models of molecular evolution and Phylogeny. *Genome Research* 8:1233-1244.
110. Liò, P., Goldman N., Thorne J. and Jones D.T. (1998). Combining Protein Secondary Structure Prediction and Evolutionary Inference. *Bioinformatics* 14: 726-733.
111. Bogani P., Liò P., Intrieri M.C. and Buiatti M. (1997). A Physiological and Molecular Analysis of the genus *Nicotiana*. *Molecular Phylogeny and Evolution* 7:62-70
112. Fani R., Barberio C., Casalone E., Cavalieri D., Lazcano A., Liò P., Mori E., Perito B. and Polsinelli M. (1997) Evolutionary analysis of paralogous genes *hisA* and *hisF*: cloning and nucleotide sequence of the *HIS6* gene from *Saccharomyces cerevisiae*. *Gene*. 197: 9-17.
113. Dewar J., Wheatley A., Wilkinson J. Holgate S.T., Thomas N.S. Liò P., Morton N.E., Hall I. (1997) Association of the GLN 27 beta adrenoceptor polymorphism and IgE variability in asthmatic families. *Chest* 111: 78-79.
114. Thomas NS, Wilkinson J, Liò P, Doull I, Morton NE, Holgate ST (1997) Investigation of the genetic factors underlying asthma and atopy in outbred UK populations. 5th West-Pacific allergy symposium , Ch.41, Monduzzi Editore, via ferrarese 119, 40128 Bologna, Italy. pp.81-86.
115. Liò P. and Ruffo S. (1997) Searching for genomic constraints. *Il Nuovo Cimento* 20:113-127.
116. Dewar J., Wheatley A., Wilkinson J., Wheatley A., Thomas N.S., Doull I, Morton N.E., Liò P., Harvey J.F., Liggett S.B., Holgate S.T., Hall I. (1997) Association of the GLN 27 beta adrenoceptor polymorphism and IgE variability in asthmatic families. *J. Allergy Clin. Immunol.* 100:261-265.
117. Liò P. and Morton N.E. (1997) Oligogenic linkage and map integration. In *Genetic Mapping of Disease Genes*. I.H. Pawlowitzki ed. Pergamon Press.

118. Liò P. and Morton N. (1997) Comparison of Parametric and Non-parametric Methods to Map Oligogenes. *Proceedings National Academy of Sciences USA* 94:5344-5348.
119. Liò P., Politi A., Buiatti M., Ruffo S., (1996) High statistics block entropy measure of DNA Sequences; *Journal of Theoretical Biology*, 180:151-160 <http://www.cl.cam.ac.uk/~pl219/aa.pdf>
120. Liò P., Ruffo S., Politi A., Buiatti M. (1996) Analysis of genomic patchiness of *Haemophilus influenzae* and *S. cerevisiae* chromosomes *Journal of Theoretical Biology*, 183:455-469.
121. Bogani P., Simoni A., Liò P., Scialpi A. e Buiatti M. (1996). Genome flux in tomato cell clones cultured in vitro in different physiological equilibria. II: a RAPD analysis of variability. *Genome* 39:846-853.
122. Bogani P., Liò P., Intrieri M.C., Buiatti M., (1996): Hormonal balances as controlling factors of *Nicotiana* species differentiation during evolution. 10th FESPP Congress From Molecular Mechanisms to the Plant: an Integrated Approach, Florence, September 9-13, *Plant Physiol. and Biochem.*
123. Liò P., Collins A., Morton N.E. (1996) The beta model for complex inheritance. *Proceedings of the European Mathematical Genetics Meeting.*
124. Liò P. (2000) Siamo uomini non DNA robot, mensile di divulgazione scientifica Newton- Maggio 2000
125. Liò P. (1996): La genetica della visione dei colori. In 'Calore, Colore, Visione', editore Centro Stampa Giunta Regionale, Firenze.
126. Bagnoli, F. and Liò, P. (1995). Selection, mutation and codon usage in a bacterial model. *Journal of Theoretical Biology* 173:271-281. Arxiv preprint cond-mat/9808317
127. Fani R., Liò P. and Lazcano A. (1995) Molecular Evolution of the Histidine Biosynthetic Pathway. *Journal of Molecular Evolution* 41:760-774.
128. Vicario F., Vendramin G.G., Rossi P., Liò P. (1995) Giannini R. Allozyme, Chloroplast DNA and RAPD markers for determining Genetic Relationships between *Abies alba* and the relic population of *Abies nebrodensis* (1995) *Theoretical and Applied Genetics*, 90:1012-1018.
129. Alifano P., Fani R., Liò P., Lazcano A., Bazzicalupo M., Carlomagno M.S. and Bruni C.B. (1995) Histidine biosynthetic pathway and genes: structure, regulation and evolution. *Microbiological Review* 60:44-70.
130. Fani R., Liò P., Chiarelli, I. and Bazzicalupo, M. (1994). The evolution of the histidine biosynthetic genes in prokaryotes: a common ancestor for the *hisA* and *hisF* genes. *Journal of Molecular Evolution* 38:489-495.

131. Liò P., Ruffo S. and M. Buiatti, (1994). Third codon G+C periodicity as a possible signal for an internal selective constraints. *Journal of Theoretical Biology*, 171:215-223.
132. Liò P. Long Range Properties of DNA Sequences (1994). In *Forecasting and Modeling for Chaotic and Stochastic Systems*, edited by A. Bellacicco, G. Koch and A. Vulpiani. Collana Franco Angeli, Roma.
133. Fani R., Damiani G., Grifoni A., Liò P. and Mori E. Nucleotide Sequence of Azospirillum RAPD markers (1994) *Proceedings NATO Advanced Workshop on Azospirillum brasilense and related microorganisms Sharvar, Ungary, 4-7 Sep. 1994.*
134. Fani R., Bandi C., Bazzicalupo M., Damiani G., Di Cello F., Fancelli S., Gerace L., Grifoni A., Liò P. and Mori E. (1994). Phylogenetic Studies of the Genus Azospirillum. In *Azospirillum VI and Related Microorganisms*, Fendrik I. ed., NATO ASI Series Vol G 37.
135. Bagnoli F., Guasti G. and Liò P. Translation Optimization in Bacteria: Statistical Models (1994). in *Non Linear Excitations in Biomolecules*. Michel Peyrard ed., Springer-Verlag.
136. Liò P., Bazzicalupo M., Grifoni A., Mori E. and Fani R. (1994) Cloning and Analysis of an Azospirillum brasilense iteron and hslUV operon containing region *Proceedings NATO Advanced Workshop on Azospirillum brasilense and related microorganisms. Sharvar, Ungary, 4-7 Sept. 1994*
137. Bogani P., Intrieri M.C., Liò P., Buiatti M. Use of genetic markers. *Molecular Screening News* December 1994.