

INFORMAZIONI PERSONALI Guido Tiana

ESPERIENZA PROFESSIONALE

2016- Presente Professore Associato, Università di Milano
2012-Presente Principal Investigator del gruppo di biofisica teorica
2009-2013 Cofondatore e ricercatore in Foldless srl
2005-2016 ricercatore Università di Milano
1997 research associate DTU, Denmark and Department of Chemistry, Harvard University

ISTRUZIONE E FORMAZIONE

2000 PhD, University of Copenhagen
1997 Laurea in Fisica, Università di Milano

COMPETENZE PERSONALI

Lingua madre Italiano

ULTERIORI INFORMAZIONI

Pubblicazioni

1. F. Vasile, M. Padigada, A. Siccardi, D. Potenza, G. Tiana, **A combined NMR-computational study of the interaction between influenza-virus Hemagglutinin and sialic derivatives from human and avian receptors on the surface of transfected cells** , Int. J. Mol. Sci. 19 , 1267 (2018) [[link](#)]
2. A. Possenti, M. Vendruscolo, C. Camilloni, G. Tiana, **A method for partitioning the information contained in a protein sequence between its structure and function** , Proteins 86 , 956-964 (2018) [[link](#)]
3. R. Capelli, G. Tiana and C. Camilloni, **An implementation of the maximum-caliber principle by replica-averaged time-resolved restrained simulations** , J. Chem. Phys. 148 , 184114 (2018) [[link](#)]
4. G. Tiana and L. Giorgetti, **Integrating experiment, theory and simulation to determine the structure and dynamics of mammalian chromosomes** , Curr. Opin. Struct. Biol. 49 , 11 (2018) [[link](#)]
5. M. Negri, M. Gherardi, G. Tiana, M. Cosentino Lagomarsino, **Spontaneous domain formation in disordered copolymers as a mechanism for chromosome structuring** , Soft Matter 14 , 6128 (2018) [[link](#)]
6. H. I. Rösner, M. Caldarini, A. Prestel, M. A. Vanoni, R. A. Broglia, A. Aliverti, G. Tiana and B. B. Kragelund, **Cold denaturation of the HIV-1 protease monomer** , Biochemistry 56 , 1029 (2017) [[link](#)]
7. S. A. Ghadami, F. Bemporad, B. M. Sala, G. Tiana, S. Ricagno and F. Chiti, **FRET studies of the conformational states adopted by transthyretin for amyloid fibril formation**, Cell. Mol. Life Sci. 74 , 3577 (2017) [[link](#)]
8. F. Cola, F. Marchetti and G. Tiana, **How likely are oscillations in a genetic feedback loop with delay?** , Europ. Phys. J. E 40 , 74 (2017) [[link](#)]
9. Y. Zhan, L. Giorgetti and G. Tiana, **Modelling Genome-wide Topological Associating Domains of Mouse Embryonic Stem Cells** , Chromosome Res. 25 , 5 (2017) [[link](#)]
10. Y. Zhan, L. Mariani, I. Barozzi, E. G. Shultz, N. Bluthgen, M. Stadler, G. Tiana and L. Giorgetti, **Reciprocal insulation analysis of Hi-C data shows that TADs represent a functionally but not structurally privileged scale in the hierarchical folding of chromosomes**, Genome Res. 27 , 479 (2017) [[link](#)]
11. R. Capelli, F. Marchetti, G. Tiana and G. Colombo, **SAGE: a Fast Computational Tool for Linear Epitope Grafting onto a Foreign Protein Scaffold** , J. Chem. Inf. Model. 57 , 6 (2017) [[link](#)]
12. R. Meloni and G. Tiana, **Thermodynamic and Structural Effect of Urea and Guanidine Chloride on the Helical and on a Hairpin fragment of GB1 from Molecular Simulations** , Proteins 85 , 753 (2017) [[link](#)]
13. R. Capelli, F. Villemont, E. Moroni, G. Tiana, A. van der Vaart and G. Colombo, **Assessment of mutational effects on peptide stability through confinement simulations** , J. Phys. Chem. Lett. 7 , 126 (2016) [[link](#)]
14. A. Sanzeni, V. Balasubramanian, G. Tiana and M. Vergassola, **Complete coverage of space favors modularity of the grid system in the brain** , Phys. Rev. E 94 , 062409 (2016) [[link](#)]
15. Y. Zhan, L. Giorgetti, G. Tiana, **Looping probability of random heteropolymers helps to understand the scaling properties of biopolymers** , Phys. Rev. E 94 , 032402 (2016) [[link](#)]

16. R. Meloni, C. Camilloni and G. Tiana, **Properties of low-dimensional collective variables in the molecular dynamics of biopolymers**, Phys. Rev. E 94 , 052406 (2016) [[link](#)]
17. G. Tiana, A. Amitai, T. Pollex, T. Piolot, D. Holcman, E. Heard, L. Giorgetti, **Structural fluctuations of the chromatin fiber within topological associating domains**, Biophys. J. 110 , 1234 (2016) [[link](#)]
18. A. Sanzeni, A. Celani, G. Tiana, M. Vergassola, **Theory of feedback controlled brain stimulations for Parkinson's disease**, Physica A 441 , 121 (2016) [[link](#)]
19. F. Vasile, M. Civera, L. Belvisi, D. Potenza, G. Tiana, **Thermodynamically-Weighted Conformational Ensemble of Cyclic RGD Peptidomimetics From NOE Data**, J. Phys. Chem. B 120 , 7098 (2016) [[link](#)]
20. J. Marangon, M. S. Christodoulou, F. Casagrande, G. Tiana, L. Dalla Via, A. Aliverti, D. Passarella, G. Cappelletti, S. Ricagno, **Tools for the rational design of bivalent microtubule-targeting drugs**, Biochem. Biophys. Res. Comm. 479 , 48 (2016) [[link](#)]
21. A. Contini and G. Tiana, **A many-body term improves the accuracy of effective potentials based on protein coevolutionary data**, J. Chem. Phys. 143 , 025103 (2015) [[link](#)]
22. E. Molteni, G. Onida and G. Tiana, **Conformational dependence of the circular-dichroism spectra of single amino acids from plane-waves-based density-functional theory calculations**, J. Phys. Chem. B 119 , 4803 (2015) [[link](#)]
23. G. Tiana, **Effect of disorder on the contact probability of elongated conformations of biopolymers**, Phys. Rev. E 92 , 010702R (2015) [[link](#)]
24. G. Tiana, F. Villa, Y. Zhan, R. Capelli, C. Paissoni, P. Sormanni, E. Heard, L. Giorgetti, R. Meloni, **MonteGrappa: an iterative Monte Carlo program to optimize biomolecular potentials in simplified models**, Comp. Phys. Comm. 186 , 93 (2015) [[link](#)]
25. R. Capelli, C. Paissoni, P. Sormanni and G. Tiana, **Iterative derivation of effective potentials to sample the conformational space of proteins at atomistic scale**, J. Chem. Phys. 140 , 195101 (2014) [[link](#)]
26. L. Giorgetti, R. Galupa, E. P. Nora, T. Piolot, F. Lam, J. Dekker, G. Tiana and E. Heard, **Predictive polymer modeling reveals coupled fluctuations in chromosome conformation and trascription**, Cell 157 , 950 (2014) [[link](#)]
27. R. Meloni, C. Camilloni and G. Tiana, **Sampling the denatured state of polypeptides in water, urea and guanidine chloride to strict equilibrium conditions with the help of massively parallel computers**, J. Chem. Theo. Comp. 10 , 846 (2014) [[link](#)]
28. M. Caldarini, P. Sonar, I. Valpapuram, D. Tavella, C. Volontè, V. Pandini, M. A. Vanoni, A. Aliverti, R. Broglia, G. Tiana and C. Cecconi, **The complex folding behavior of HIV-1-protease monomer revealed by optical-tweezer single-molecule experiments and molecular-dynamics simulations**, Biophys. Chem. 195 , 32 (2014) [[link](#)]
29. S. Kimura, M. Caldarini R. A. Broglia, N. Dokholyan and G. Tiana, **The maturation of HIV-1 protease precursor studied by discrete molecular dynamics**, Proteins 82 , 633 (2014) [[link](#)]
30. G. Tiana and M. H. Jensen, **The dynamics of genetic control in the cell: the good and bad of being late**, Philos. Trans. A 371 , 20120469 (2013) [[link](#)]

31. S. Lui and G. Tiana, **The network of stabilizing contacts in proteins studied by coevolutionary data** , J. Chem. Phys. 139 , 155103 (2013) [\[link\]](#)
32. P. Heidarsson, I. Calpapuram, C. Camilloni, A. Imparato, G. Tiana, F. Poulsen, B. Kragenlund, C. Cecconi, **A Highly compliant protein native state with a spontaneous-like mechanical unfolding pathway** , J. Am. Chem. Soc. 134 , 17068 (2012) [\[link\]](#)
33. G. Tiana and C. Camilloni, **Ratcheted molecular-dynamics simulations identify efficiently the transition state of protein folding** , J. Chem. Phys. 137 , 235101 (2012) [\[link\]](#)
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38. L. Giorgetti, T. Siggers, G. Tiana, G. Caprara, S. Notarbartolo, T. Corona, M. Pasparakis, P. Milani, M. L. Bulyk, G. Natoli, **Noncooperative Interactions between Transcription Factors and Clustered DNA Binding Sites Enable Graded Transcriptional Responses to Environmental Inputs** , Molecular Cell 37 , 418 (2010) [\[link\]](#)
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50. S. Ferramosca, M. Lo Cicero, A. E. Laface, F. Sirianni, E. Cesana, D. Provasi, G. Tiana, M. Galli, M. Moroni, A. Clivio, R. A. Broglia and S. Rusconi, **The non-conventional (folding) protease inhibitor blocks the human immunodeficiency virus type-1 replication without evidence of resistance during in vitro passage** , Antiviral Therapy 13 , A34 (2008) [\[link\]](#)
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58. G. Tiana, S. Krishna, S. Pigolotti, M. H. Jensen and K. Sneppen, **Oscillations and temporal signalling in cells** , Physical Biology 4 , 1 (2007) [\[link\]](#)
59. G. Tiana, L. Sutto and R. A. Broglia, **Use of the Metropolis algorithm to simulate the dynamics of protein chains** , Physica A 380 , 241 (2007) [\[link\]](#)
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61. L. Sutto, G. Tiana and R. A. Broglia, **Sequence of events in folding mechanism: Beyond the Go model** , Protein Sci. 15 , 1638 (2006) [\[link\]](#)
62. S. Colacino, G. Tiana and G. Colombo, **Similar folds with different stabilization mechanisms: the cases of prion and doppel proteins** , BMC Structural Biology 6 , 17 (2006) [\[link\]](#)

63. S. Colacino, G. Tiana, R. A. Broglia and G. Colombo, **The Determinants of Stability in the Human Prion Protein: Insights into Folding and Misfolding from the Analysis of the Change in the Stabilization Energy Distribution in Different Conditions** , Proteins 62 , 698 (2006) [\[link\]](#)
64. R. A. Broglia, G. Tiana, L. Sutto, D. Provasi, F. Simona, **The physics of protein folding and of non-conventional drug design: Attacking AIDS with its own weapons** , La Rivista del Nuovo Cimento 29 , 1 (2006) [\[link\]](#)
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- contacts in the behaviour of model dimeric proteins** , Phys. Rev. E 67 , 51909 (2003) [[link](#)]
79. M. H. Jensen, K. Sneppen and G. Tiana, **Sustained oscillations and time delays in gene expression of protein Hes1** , FEBS Letters 531 , 176 (2003) [[link](#)]
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88. G. Tiana and R. A. Broglia, **Statistical Analysis of Native Contact Formation in the Folding of Designed Model Proteins** , J. Chem. Phys. 114 , 2503 (2001) [[link](#)]
89. G. Tiana, R. A. Broglia and E. I. Shakhnovich, **Hiking in the energy landscape in sequence space: a bumpy road to good folders** , Proteins 39 , 244 (2000) [[link](#)]
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- Books and Book Chapters**
90. G. Tiana and L. Giorgetti, **Modelling the 3D conformations of genomes** , Series in Computational Biophysics, Taylor and Francis Books, Inc. ISBN 9781138500792 (2018) [[link](#)]
91. G. Tiana, E. Heard and L. Giorgetti, **From chromosome capture to polymer physics and back: investigating the three-dimensional structure of chromatin within topological associating domains** , in Epigenetics and System Biology, Ed. L. Ringrose, Elsevier ISBN: 9780128030752 (2017) [[link](#)]
92. R. A. Broglia and G. Tiana, **Protein Folding and Aggregation** , Encyclopedia of Condensed Matter Physics, Eds. F. Bassani, J. Liedl

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94. D. Provasi, G. Tiana and R. A. Broglia, **Folding inhibition of HIV Protease: an experimental glance** , p. 283-291, Proceedings of the CLXV course of the E. Fermi School on Protein Folding and Drug Design, Varenna (Italy), 4-14 July 2006, IOS Press (2007)
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100. R. A. Broglia and G. Tiana, **Protein folding and non-conventional drug design: a primer for nuclear structure physicists** , p. 117, Proceedings of the International Conference on Labirynth in Nuclear Structure, Crete, AIP Press (2004)
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ALLEGATI

Sostituire con la lista di documenti allegati al CV. Esempi:

- copie delle lauree e qualifiche conseguite
- attestazione del datore di lavoro

Dati personali

Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 (Codice in materia di protezione dei dati personali) e sue successive modifiche e integrazioni, nonché del Regolamento UE 679/2016 (Regolamento Generale sulla Protezione dei dati o, più brevemente, RGPD).

Data, 20/1/2018

Firma