

Prof. ADRIANO BARRA's Publication List

Lecce, 29/04/2023

- 108.** F. Alemanno, M. Cavo, D. Delle Cave, E. D'amone, G. Gigli, E. Lonardo, A. Barra, L. Del Mercato,
Quantifying heterogeneity to drug response in cancer-stroma kinetics
PNAS 120(11) e2122352120 (2023). **Impact Factor = 12.78**
This article has a CNR press release ([webpage](#), [file](#)).
This article has been featured in several divulgative Italian newspapers (e.g. [LeScienze](#), [Salute](#), etc.)
- 107.** F. Alemanno, M. Aquaro, I. Kanter, A. Barra, E. Agliari,
Supervised Hebbian Learning
EPL Perspective 141, 11001, (2023). **Impact Factor = 01.96**
- 106.** A. Barra, G. Catania, A. Decelle, B. Seoane,
Thermodynamics of bidirectional associative memories
J. Phys. A: Math. & Theor. in press (2023). **Impact Factor = 02.33**
- 105.** V. Onesto, S. Forniciti, F. Alemanno, K. Narajanankutty, A. Chandra, S. Prasad, A. Azzariti, G. Gigli, A. Barra, A. De Martino, D. De Martino, L. del Mercato,
Probing single cell fermentation flux and intercellular exchange networks via pH-microenvironment sensing and inverse modeling,
ACS Nano 17, 4, 3313, (2022). **Impact Factor = 18.02**
This article has a CNR press release ([webpage](#), [file](#)).
This article has been selected for the cover of the Journal volume ([link](#) or [file](#))
- 104.** E. Agliari, M. Aquaro, A. Barra, A. Fachechi, C. Marullo,
From Pavlov Conditioning to Hebb Learning,
Neural Computation MIT Press a1, 28, (2023). **Impact Factor = 03.23**
- 103.** A. Fachechi, E. Agliari, F. Alemanno, A. Barra,
Outperforming RBM feature-extraction capabilities by "dreaming" mechanisms,
IEEE Trans. on Neural Nets and Learn Machines 1, 10, 35724278, (2022). **Impact Factor = 14.25**
- 102.** A. Chandra, S. Pandija, F. Alemanno, R. Rizzo, R. Romano, G. Gigli, C. Bucci, A. Barra, L. Del Mercato,
A fully automatic computational approach for precisely measuring organelle acidification,
ACS Appl. Mat. & Interf. 14(16), 18133, (2022). **Impact Factor = 09.23**
This article has a CNR press release ([webpage](#), [file](#)) and a "Le Scienze" press release ([webpage](#), [file](#)).
- 101.** L. Albanese, F. Alemanno, A. Alessandrelli, A. Barra,
Replica symmetry breaking in dense neural networks,
Journal of Statistical Physics 189, 24, (2022). **Impact Factor = 01.76**
- 100.** E. Agliari, F. Alemanno, A. Barra, G. Di Marzio,
The emergence of a concept in shallow neural networks,
Neural Networks, 148, 232, (2022). **Impact Factor = 09.65**
- 99.** E. Agliari, L. Albanese, A. Barra, F. Leonelli
On the effective initialization for Restricted Boltzmann machines via duality with Hopfield models, **Neural Networks** 143, 314, (2021). **Impact Factor = 09.65**
- 98.** E. Agliari, A. Barra, P. Sollich, L. Zdeborovà (editors),
Machine Learning & Statistical Physics: preface of the special issue
Journal of Physics A: math. & Theor. 10.1088, (2020). **Impact Factor = 02.13**

97. A. Barra, et al.,
Microgel-based in vitro tumoroid platform for real time assessment of drug sensitivity and resistance, *Cancer Research: exp. and mol. ther. AACR Proc.* (2020) **Proceedings**
96. E. Agliari, L. Albanese, A. Barra, G. Ottaviani,
Replica symmetry breaking in associative neural networks: a few steps toward rigorous results, *J. Phys. A: Math. & Theor.* 53, 41, (2020). **Impact Factor = 02.13**
95. E. Agliari, A. Barra, O.A. Barra, A. Fachechi, L. Franceschi-Vento, L. Moretti,
Analysis of temporal correlation in heart rate variability through maximum entropy principle in a minimal pairwise glassy model,
Nature Scientific Reports 10, 15353, (2020). **Impact Factor = 04.99**
94. E. Agliari, F. Alemanno, A. Barra, O.A. Barra, A. Fachechi, L. Franceschi-Vento, L. Moretti
Detecting cardiac pathologies via machine learning on heart-rate variability time series and related markers,
Nature Scientific Reports 10, 8845, (2020). **Impact Factor = 04.99**
93. E. Agliari, F. Alemanno, A. Barra, A. Fachechi,
Generalized Guerra's interpolation scheme for dense associative neural networks,
Neural Networks 128, 254, (2020). **Impact Factor = 11.02**
92. D. Alberigi, A. Barra, P. Contucci, E. Mingione,
Annealing and replica symmetric bounds in Deep Boltzmann machines,
Journal of Statistical Physics 180, 665, (2020). **Impact Factor = 01.76**
91. E. Agliari, F. Alemanno, A. Barra, M. Centonze, A. Fachechi,
Neural networks with redundant representations: detecting the undetectable
Physical Review Letters 124, 028301, (2020). **Impact Factor = 09.16**
90. E. Agliari, A. Barra, M. Castellana, M. Piel, P. Saez, P. Vergas
A statistical-inference approach to reconstruct intercellular interactions in cell migration experiments,
Science Advances 6, 11, (2020). **Impact Factor = 14.39**
89. E. Agliari, F. Alemanno, A. Barra, A. Fachechi,
Dreaming neural networks: rigorous results,
Journal of Statistical Mechanics P083503, 8, (2019). **Impact Factor = 02.23**
88. E. Agliari, F. Alemanno, A. Barra, A. Fachechi,
On the Marchenko-Pastur law in analog bipartite spin-glasses,
Journal of Physics A: Parisi-70 52, 254002, (2019). **Impact Factor = 02.00**
87. E. Agliari, A. Barra, M. Notarnicola,
The relativistic Hopfield network: rigorous results,
Journal of Mathematical Physics 60, 03336, (2019). **Impact Factor = 01.31**
86. E. Agliari, A. Barra, B. Tirozzi,
Boltzmann machines: self-averaging properties and thermodynamic limits,
Journal of Statistical Mechanics P033301, (2019). **Impact Factor = 02.23**
85. A. Fachechi, E. Agliari, A. Barra,
Dreaming Neural Networks: forgetting spurious memories and reinforcing pure ones.
Neural Networks 112, 24-40, (2019). **Impact Factor = 08.28**
This article has been featured in all the main Italian newspapers (e.g. Repubblica, ANSA, etc.)
84. A. Pollini, L. Del Mercato, A. Barra, Y. S. Zhang, F. Calabi, G. Gigli,
Towards the development of human Immune System-on-a-chip platform,
Drug discovery today 24(2), 517, (2019). **Impact Factor = 07.17**

83. A. Barra, M. Beccaria, A. Fachechi,
A new mechanical approach to handle generalized Hopfield neural networks,
Neural Networks 106, 205, (2018). **Impact Factor = 06.95**
This article has been featured in ScienceTrends ([link here](#))
82. E. Agliari, A. Barra, P. Contucci, A. Pizzoferrato, C. Vernia
Interactions and fluctuations: a case study from Social Sciences,
Nature Palgrave Communications 4, 55, (2018). **Impact Factor = 02.90**
81. E. Alfinito, A. Barra, M. Beccaria, A. Fachechi, G. Macorini,
Global awarness and risk-aversion, an evolutionary game model for behavioral gambit of loyalist,
EuroPhysics Letters 121, 38001, (2018). **Impact Factor = 01.95**
80. E. Agliari, A. Barra, G. Landolfi, S. Murciano, S. Perrone,
Complex reaction kinetics in chemistry,
Complexity 7423297, (2018). **Impact Factor = 02.83**
79. A. Barra, G. Genovese, P. Sollich, D. Tantari
Phase Diagram of Restricted Boltzmann Machines & Generalized Hopfield Models,
Physical Review E 97, 022310, (2018). **Impact Factor = 02.52**
The article has been selected in the highlights (Editor's choice) of the [APS 2018](#)
78. A. Barra, G. Genovese, P. Sollich, D. Tantari
Phase transitions in Restricted Boltzmann Machines with generic priors
Physical Review E 96, 042156, (2017). **Impact Factor = 02.52**
77. A. Barra, & al.
A novel protocol to evaluate the efficacy of chemotherapy induced human anticancer immunity in a microfluidic environment,
Nature Scientific Reports 7, 12737, (2017). **Impact Factor = 04.61**
76. E. Agliari, A. Barra, C. Longo, D. Tantari
Neural Networks retrieving binary patterns in a sea of real ones,
Journal of Statistical Physics 168, 1085, (2017). **Impact Factor = 02.85**
75. E. Agliari, A. Annibale, A. Barra, A.C.C. Coolen, D. Tantari,
Retrieving infinite numbers of patterns in a spin glass model of immune networks,
Europysics Letters 117, 28003, (2017). **Impact Factor = 01.83**
The article has been selected in the highlights (Editor's choice) of the [IOP 2017](#)
74. E. Agliari, A. Barra, L. Dello Schiavo, A. Moro,
Complete integrability of information processing by biochemical ractions,
Nature Scientific Reports 6, 36314, (2016). **Impact Factor = 04.61**
73. E. Agliari, A. Barra, A. Galluzzi, F. Requera-Silvente, D. Tantari,
Insights in Economical Complexity: boost of migrants small worlds
Nature Palgrave Communications 2, 16021, (2016). **Impact Factor = 00.82**
72. E. Agliari, A. Barra, A. Galluzzi, M. Javarone, D. Tantari, A. Pizzoferrato,
Emerging heterogeneities in Italian customs
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71. E. Agliari, A. Barra, G. Del Ferraro, F. Guerra, D. Tantari,
Anergy in self-directed B-cells from a statistical mechanics perspective,
Journal of Theoretical Biology 375, 21, (2015). **Impact Factor = 02.05**
70. E. Agliari, A. Barra, F. Tavani, B. Tirozzi,
Motifs stability in hierarchical modular networks,

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Proceedings

69. A. Barra, A. Moro,
Exact solution of the van der Waals model in the critical region,
Annals of Physics 359, 290-299, (2015).

Impact Factor = 02.37

68. E. Agliari, M. Altavilla, A. Barra, L. Dello Schiavo, E. Katz,
Notes on stochastic (bio)-logical gates: computing with allosteric cooperativity,
Nature Scientific Reports 5, 9415, (2015).

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67. E. Agliari, A. Barra, A. Galluzzi, F. Guerra, F. Tavani, D. Tantari,
Topological properties of hierarchical networks,
Physical Review E 91, 062807, (2015).

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66. E. Agliari, A. Barra, A. Galluzzi, F. Guerra, F. Tavani, D. Tantari,
Hierarchical neural networks perform both serial and parallel processing,
Neural Networks 66, 22, (2015).

Impact Factor = 04.32

65. E. Agliari, A. Barra, A. Galluzzi, F. Guerra, D. Tantari, F. Tavani,
Retrieval capabilities of hierarchical networks: From Dyson to Hopfield,
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64. E. Agliari, A. Barra, A. Galluzzi, F. Guerra, D. Tantari, F. Tavani,
Metastable states in the hierarchical Dyson model drive parallel processing in the hierarchical Hopfield network,
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The article has been selected in the highlights (best papers of the year) of the IOP 2015 (see [here](#))

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63. A. Barra, P. Contucci, E. Mingione, D. Tantari,
Multi-Species mean-field spin-glasses: Rigorous results,
Annales Henri Poincaré 16(3), 691, (2015).

Impact Factor = 02.06

62. A. Annibale, A. Barra, P. Sollich, D. Tantari,
Extensive parallel processing on scale free networks,
Physical Review Letters 113, 238106, (2014).

Impact Factor = 07.72

61. A. Barra, A. Di Lorenzo, F. Guerra, A. Moro,
On quantum and relativistic mechanical analogues in mean field spin models,
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Impact Factor = 02.19

60. E. Agliari, E. Biselli, A. De Ninno, G. Schiavoni, L. Gabriele, A. Gerardino, F. Mattei, A. Barra, L. Businaro,
Cancer driven dynamics of immune cells in a microfluidic environment,
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Impact Factor = 05.78

59. E. Agliari, A. Barra, P. Contucci, R. Sandell, C. Vernia,
A stochastic approach for quantifying immigrant's interactions,
New Journal of Physics 16, 103034, (2014).

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58. E. Agliari, A. Barra, A. Galluzzi, D. Tantari, F. Tavani,
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57. E. Agliari, A. Annibale, A. Barra, A. Galluzzi, D. Tantari, F. Tavani,
Ferromagnetic models for cooperative behaviors: Revisiting "Universality" in complex phenomena,
Mathematical models and methods for Planet Heart (Proc.s), Springer-INDAM series 6, 73-86, (2014).

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56. M. Castellana, A. Barra, F. Guerra,
Free energy bounds for hierarchical spin models,
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55. A. Barra, P. Contucci, R. Sandell, C. Vernia,
An analysis of a dataset on immigration: The statistical mechanics perspective of Social Action,
Nature Scientific Reports 4, 4174, (2014). **Impact Factor = 05.08**
54. E. Agliari, A. Barra, S. Franz, T. Thiago,
Some thoughts on the ontogenesis in B-cell immune networks,
Modeling Biological Systems (Proc.s) 67, Managing complexity, reducing perplexity, 71-79 Springer
(2014). **Proceedings**
53. A. Barra, A. Galluzzi, F. Guerra, A. Pizzoferrato, D. Tantari,
Mean Field bipartite spin models treated with mechanical techniques,
European Physics Journal: B 87, 74 (2014). **Impact Factor = 01.37**
52. E. Agliari, A. Barra, R. Burioni, A. Di Biasio, G. Uguzzoni,
Collective Behaviours: from biochemical kinetics to electronic circuits,
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51. A. Barra, G. Genovese, F. Guerra, D. Tantari,
A solvable mean field model of a gaussian spin glass,
Journal of Physics A: Mathematical & Theoretical 47, 155002, (2013). **Impact Factor = 01.69**
The article has been selected in the highlights (best papers of the year) of the IOP 2014 (see [here](#))
50. A. Barra, G. Del Ferraro, D. Tantari,
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European Physics Journal: B 86, 332 (2013). **Impact Factor = 01.37**
49. E. Agliari, A. Annibale, A. Barra, A.C.C. Coolen, D. Tantari,
Immune networks: Multitasking capabilities close to saturation,
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The article has been selected in the highlights (best papers of the year) of the IOP 2013 (see [here](#))
48. E. Agliari, A. Annibale, A. Barra, A.C.C. Coolen, D. Tantari,
Immune networks: Multitasking capabilities at medium load,
Journal of Physics A: Mathematical & Theoretical 46, 335 (2013). **Impact Factor = 01.69**
To this article [IOP](#) dedicated an "Insights" page providing further details (2013).
47. E. Agliari, A. Barra, A. Galluzzi, M. Isopi,
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46. E. Agliari, A. Barra, S. Bartolucci, A. Galluzzi, F. Moauro, F. Guerra,
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45. E. Agliari, A. Barra, A. D'Antoni, A. Galluzzi,
Parallel retrieval of correlated patterns,
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44. E. Agliari, L. Asti, A. Barra, R. Scrivo, G. Valesini, R. Wallis,
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43. E. Agliari, A. Barra, A. Galluzzi, F. Moauro, F. Guerra,
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- 42.** P. Sollich, A. Barra,
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The article has been selected in the highlights (best papers of the year) of the IOP 2012 (see [here](#)).
- 41.** E. Agliari, L. Asti, A. Barra, R. Burioni, G. Uguzzoni,
Analog neural networks on correlated random graphs,
Journal of Physics A: Mathematical & Theoretical 45, 365001, (2012). **Impact Factor = 01.76**
- 40.** A. Barra, F. Guerra, G. Genovese, D. Tantari,
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- 39.** A. Barra, P. Sollich,
Notes on the polynomial identities in random overlap structures,
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- 38.** E. Agliari, A. Barra, K. Gervasi-Vidal, F. Guerra,
Can persistent Epstein–Barr virus infection induce chronic fatigue syndrome as a Pavlov reflex of the immune response?,
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- 37.** E. Agliari, A. Barra, R. Burioni, A. Di Biasio,
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- 36.** E. Agliari, L. Asti, A. Barra, L. Ferrucci,
Organization and evolution of synthetic idiotypic network,
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- 35.** A. Barra, A. Bernacchia, E. Santucci, P. Contucci,
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- 34.** E. Agliari, A. Barra, R. Burioni, F. Camboni, P. Contucci,
Effective interactions in group competition with strategic diffusive dynamics,
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- 33.** A. Barra, F. Guerra, E. Mingione,
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- 32.** E. Agliari, A. Barra, R. Burioni, A. Di Biasio,
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- 31.** A. Barra, E. Agliari,
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- 30.** A. Barra, G. Genovese, F. Guerra,
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- 29.** E. Agliari, A. Barra, F. Moauro, F. Guerra,
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28. E. Agliari, A. Barra,
A Hebbian approach to complex network generation,
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27. E. Agliari, A. Barra, F. Camboni,
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26. A. Barra, E. Agliari,
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25. A. Barra, A. Di Biasio, F. Guerra,
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24. A. Barra, E. Agliari,
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23. E. Agliari, A. Barra, R. Burioni, P. Contucci,
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22. E. Agliari, A. Barra,
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21. A. Barra, P. Contucci,
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20. A. Barra, G. Genovese, F. Guerra,
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19. A. Barra,
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18. A. Barra, F. Guerra,
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16. I. Gallo, A. Barra, P. Contucci,
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15. G. Genovese, A. Barra,
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14. E. Agliari, A. Barra, R. Burioni, P. Contucci,
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12. G. Achler, A. Barra,
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11. A. Barra,
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10. A. Barra,
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9. A. Barra, L. DeSanctis,
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8. L. DeSanctis, A. Barra, V. Folli,
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7. A. Barra,
The Mean Field Ising Model trough Interpolating Techniques,
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6. E. Agliari, A. Barra, F. Camboni,
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5. A. Barra, L. DeSanctis,
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4. A. Barra, L. DeSanctis,
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3. A. Agostini, A. Barra, L. DeSanctis,
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2. A. Barra, L. DeSanctis,
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1. A. Barra,
Irreducible Free energy expansion and overlaps locking in mean field spin glasses,
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