

Giulia Palermo – Curriculum Vitae

Address: Department of Bioengineering, University of California Riverside
Material Science and Engineering MSE 223, 900 University Ave. Riverside, CA 92521

Phone: (+1) 858-281-9875 **Fax:** (+1) 858-534-4974

Nationality: Italian

Languages: Italian (mother), German, French and English (fluent).

Contact: giulia.palermo@ucr.edu

Web: <https://palermolab.com>

Education and professional experience

- 2018/07–present **University of California Riverside.** Assistant Professor of Bioengineering
- 2016/02–2018/06 **University of California San Diego.** Swiss National Science Foundation (SNSF) Advanced post-doctoral fellow in biophysics. Advisor: Prof. J. Andrew McCammon
- 2013/10–2015/12 **École Polytechnique Fédérale de Lausanne, EPFL (CH).** Postdoctoral scientist in Computational Biochemistry and Chemistry. Advisor: Prof. Ursula Rothlisberger
- 2013/04 **Italian Institute of Technology and University of Genova (IT).** PhD in Computational Drug Discovery and Development, Doctoral School of Life and Human Technologies. Advisor: Dr. Marco De Vivo
- 2009/03 **University of Salerno (IT).** Master Degree *Summa Cum Laude* (110/110 con lode) in Chemistry and Pharmaceutical Technologies

Honors and awards

- 2018/09 Featured in the *Journal of the American Chemical Society* Young Investigators Issue
- 2018/02 Nominee for the “*Future of Biophysics Burroughs Wellcome Fund Symposium*” at the 62nd Biophysical Society Meeting, San Francisco (USA).
- 2017/11 Best Use of High Performance Computing (HPC) in Life Sciences 2017. HPCwire (<https://www.hpcwire.com>)
- 2017/02 First place prize at the Art and Science image contest to the 61st Biophysical Society meeting, New Orleans, USA (\$500).
- 2014–2015 Travel awards from: (1) Biophysical Society’s Committee for Professional Opportunities for Women, Biophysical Society National Meeting, Baltimore, USA (\$500); (2) Institute of Pure and Applied Mathematics (IPAM, \$1,500); (3) Centre Européen de Calcul Atomique et Moléculaire (CECAM), Lausanne, CH.

Funding

- 2019/22 National Science Foundation (NSF) Grant: “Mechanistic investigation of DNA cleavage and specificity in CRISPR-Cas9”. Role: PI. Award number: CHE-1905374 (~\$450,000)
- 2017/21 National Institute of Health (NIH) Grant: “Discovery of Biomarkers for Age-Related Macular Degeneration”. Role: Co-Investigator. Award number: R01 EY027440 (~\$1,513,494)
- 2015/12 Advanced post-doc mobility fellowship. Swiss National Science Foundation (SNSF). (~\$110,000) and gender equality grant for the participation to the EMBO Course: Communication & Negotiation for Female Leaders (09/2016, Mannheim, DE) (~\$4,000).
- 2011/03 PhD mobility grant (~12,000 €) from the Italian National Science Foundation (MIUR)
- 2010/01 Graduate student fellowship from the Italian National Science Foundation (MIUR) (~60,000 €).

Grants for computational resources

- 2019/03 Awarded 885,000 Service Units (~\$40,000) on CPUs by the National Science Foundation (NSF) Extreme Science and Engineering Discovery Environment (XSEDE).
- 2017/09 Awarded 30,110 Service Units (~\$7,000) on GPUs by the National Science Foundation (NSF) Extreme Science and Engineering Discovery Environment (XSEDE).

2016/11	Awarded 225,000 Simulation Units (~\$190,000) on ANTON-2, the specialized supercomputer for millisecond molecular dynamics.
2016/07	Awarded 1,573,193 Service Units (~\$130,000) on CPUs by the National Science Foundation (NSF)
2015/07	Awarded 6,300,000 core hours on CPUs by the Partnership for Advanced Computing in Europe (PRACE).

List of Publications

Summary: 39 papers, 21 papers as first-author, 11 papers as the corresponding author.

† Corresponding author *Equally contributed first author

2020

1. K. W. East, J. C. Newton, U. N. Morzan, Y. B. Narkhede, A. Acharya, E. Skeens, G. Jogl, V. S. Batista, **G. Palermo**† and G. P. Lisi.† Allosteric Motions of the CRISPR-Cas9 HNH Nuclease Probed by NMR and Molecular Dynamics. *J. Am. Chem. Soc.* **2020**, *142*, 1348-1358.
2. R. E. H. Harrison, N. T. Zewde, Y. B. Narkhede, R. V. Hsu, D. Morikis, V. Vullev and **G. Palermo**.† Factor-H Inspired Design of Peptide Biomarkers of the Complement C3d Protein. *ACS Med. Chem. Lett.* **2020**, *in press*
3. B. P. Mitchell, R. V. Hsu, M. A. Medrano, N. T. Zewde, Y. B. Narkhede and **G. Palermo**†. Spontaneous embedding of DNA mismatches within the RNA:DNA hybrid in CRISPR-Cas9. *Front. Mol. Biosci.* **2020**, *In press*.
4. K. W. East, E. Skeens, J. Y. Cui, H. B. Belato, B. Mitchell, R. Hsu, V. S. Batista, **G. Palermo**, G. P. Lisi. NMR and computational methods for molecular resolution of allosteric pathways in enzyme complexes. *Biophys. Rev.* **2020**, 1-20.

2019

5. S. Vanni, L. Riccardi, **G. Palermo** and M. De Vivo.† Structure and dynamics of the acyl chains in the membrane trafficking and enzymatic processing of lipids. *Acc. Chem. Res.* **2019**, *52*, 3087-3096. **Journal Cover Art.**
6. **G. Palermo**.† Dissecting Structure and Function of RNA:DNA Hybrids. *Chem* **2019**, *5*, 1364-1366.
7. L. Casalino, **G. Palermo**, A. Spinello, U. Rothlisberger and A. Magistrato. All-Atom Simulations Disentangle the Functional Dynamics Underlying Gene Maturation in the Intron Lariat Spliceosome. *Proc. Natl. Acad. Sci. USA* **2018**, *115*, 6584-6589.
8. **G. Palermo**.† Structure and Dynamics of the CRISPR-Cas9 Catalytic Complex. *J. Chem. Inf. Model.* **2019**, *59*, 2394-2406. **Journal Cover Art.**
9. J. Borisek, A. Saltalamacchia, A. Galli, **G. Palermo**, E. Molteni, L. Malcovati, A. Magistrato.† Disclosing the Impact of Carcinogenic SF3b Mutations on Pre-mRNA Recognition Via All-Atom Simulations. *Biomolecules* **2019**, *9*, 633.
10. **G. Palermo**† C. G. Ricci and J. A. McCammon. The invisible dance of CRISPR-Cas9. Molecular simulations unveil the molecular side of the gene-editing revolution. *Physics Today* **2019**, *72*, 4, 30-36.
11. C. G. Ricci, J. S. Chen, Y. Miao, M. Jinek, J. A. Doudna, J. A. McCammon & **G. Palermo**.† Deciphering off-target effects in CRISPR-Cas9 through accelerated molecular dynamics. *ACS Cent. Sci.* **2019**, *5*, 651-662.
12. **G. Palermo**.† L. Casalino, A. Magistrato and J. A. McCammon. Understanding the mechanistic basis of non-coding RNA through molecular dynamics simulations. *J. Struct. Biol.* **2019**, *206*, 267-279. **Journal Cover Art.**
13. S. J. Wodak, E. Paci, N. V. Dokholyan, N. I. Berezovsky, A. Horovitz, J. Li, ... **G. Palermo**, J. A. McCammon, ... T. McLeish. Allostery in its many disguises: from theory to applications. *Structure* **2019**, *4*, 566-578.
14. **G. Palermo**.† J. S. Chen, C. G. Ricci, I. Rivalta, M. Jinek, V. S. Batista, J. A. Doudna, J. A. McCammon Key role of the REC lobe during CRISPR-Cas9 activation by “sensing”, “regulating” and “locking” the catalytic HNH domain. *Quarterly Rev. Biophys.* **2018**, *51*, e9.

Before UC Riverside (07/2018)

15. **G. Palermo**.† C. Ricci, R. Basak, A. Fernando, M. Jinek, I. Rivalta, V. Batista, J. A. McCammon. PAM-induced allostery activates CRISPR-Cas9. *J. Am. Chem. Soc.* **2017**, *139*, 16028–16031. **Journal Cover Art. Featured in the 2018 J. Am. Chem. Soc. Young Investigators Virtual Issue.**

16. N. Ashari Astani, S. Meloni, A. H. Salavati, **G. Palermo**, M. Graetzel, U. Rothlisberger. Computational Characterization of the Dependence of Halide Perovskite Effective Masses on Chemical Composition and Structure. *J. Phys. Chem. C* **2017**, 121, 23886–23895.
17. **G. Palermo**,† Y. Miao, R. C. Walker, M. Jinek, J. A. McCammon. CRISPR-Cas9 conformational activation as elucidated from enhanced molecular simulations. *Proc. Natl. Acad. Sci. USA* **2017**, 114, 7260–7265.
18. Adhireksan,* **G. Palermo**,* T. Riedel,* Z. Ma,* R. Muhammad, P. J. Dyson, U. Rothlisberger, C. A. Davey. Allosteric cross-talk in chromatin can mediate drug-drug synergy. *Nat. Commun.* **2017**, 8, 14860.
19. L. Casalino, **G. Palermo**, N. Abdurakhmonova, U. Rothlisberger, A. Magistrato. Development of Site-specific Mg-RNA Force Field Parameters: A Dream or Reality? Guidelines from Combined Molecular Dynamics and Quantum Mechanics Simulations. *J. Chem. Theory Comput.* **2017**, 13, 340–352.
20. **G. Palermo**,† Y. Miao, R. C. Walker, M. Jinek, J. A. McCammon. Striking plasticity of CRISPR-Cas9 and key role of non-target DNA, as revealed by molecular simulations. *ACS Cent. Sci.* **2016**, 2, 756–763.
21. Z. Ma,* **G. Palermo**,* Z. Adhireksan,* B. S. Murray, T. von Erlach, P. J. Dyson, U. Rothlisberger, C. A. Davey. An Organometallic Compound Displays a Unique One-Stranded Intercalation Mode that is DNA Topology-Dependent. *Angew. Chem. Int. Ed.* **2016**, 128, 7441–7444.
22. L. Casalino, **G. Palermo**, U. Rothlisberger, A. Magistrato. Who Activates the Nucleophile in Ribozyme Catalysis? An Answer from the Splicing Mechanism of Group II Introns. *J. Am. Chem. Soc.* **2016**, 138, 10374–10377. **Journal Cover Art.**
23. S. Meloni, **G. Palermo**, N. Ashari Astani, M. Graetzel, U. Rothlisberger. Valence and conduction bands tuning in halide perovskites for solar cell applications. *J. Mater. Chem. A* **2016**, 4, 15997–16002.
24. **G. Palermo**, A. Magistrato, T. Riedel, T. von Erlach, C. A. Davey, P. J. Dyson, U. Rothlisberger. Fighting cancer with organometallic compounds: from naked DNA to protein and chromatin targeting strategies. *ChemMedChem* **2016**, 11, 1199–1210. Special Issue Polypharmacology and Multitarget Drugs.
25. **G. Palermo**, A. D. Favia, M. Convertino, M. De Vivo. The molecular basis for dual Fatty Acid Amide Hydrolase (FAAH) / Cyclooxygenase (COX) inhibition. *ChemMedChem* **2016**, 11, 1252–1258.
26. **G. Palermo**, A. Cavalli, M. L. Klein, M. Alfonso-Prieto, M. Dal Peraro, M. De Vivo. Catalytic metal ions and enzymatic processing of DNA and RNA. *Acc. Chem. Res.* **2015**, 48, 220–228.
27. **G. Palermo**, E. Minniti, M. L. Greco, L. Riccardi, E. Simoni, M. Convertino, C. Marchetti, M. Rosini, C. Sissi, A. Minarini, M. De Vivo. An optimized polyamine moiety boosts potency of human type II topoisomerase poisons as quantified by comparative analysis centered on the clinical candidate F14512. *Chem. Commun.* **2015**, 51, 14310.
28. **G. Palermo**, I. Bauer, P. Campomanes, A. Cavalli, A. Armirotti, S. Giroto, U. Roethlisberger, M. De Vivo. Keys to lipid selection in FAAH catalysis: Structural flexibility, gating residues, and multiple binding pockets. 2015, *PLoS Comput. Biol.* **2015**, 11, e1004231. **Journal Cover Art.**
29. **G. Palermo**, P. Campomanes, A. Cavalli, U. Roethlisberger, M. De Vivo. Anandamide hydrolysis in FAAH reveals a dual strategy for efficient enzyme-assisted amide bond cleavage via nitrogen inversion. *J. Phys. Chem. B.* **2015**, 119, 789–801. W. L. Jorgensen Festschrift. **Journal Cover Art.**
30. **G. Palermo**, A. Cavalli, U. Roethlisberger, M. De Vivo. Computational insights into function and inhibition of the Fatty Acid Amide Hydrolase (FAAH). *Eur. J. Med. Chem.* **2015**, 91, 15–26.
31. **G. Palermo**, M. Stenta, A. Cavalli, M. Dal Peraro, M. De Vivo. Molecular simulations highlight the role of metals in catalysis and inhibition of type II topoisomerase. *J. Chem. Theory Comput.* **2013**, 9, 857–862. **Journal Cover Art.**
32. **G. Palermo**, P. Campomanes, M. Neri, D. Piomelli, A. Cavalli, U. Roethlisberger, M. De Vivo. Wagging the tail: essential role of substrate flexibility in FAAH catalysis. *J. Chem. Theory Comput.* **2013**, 15, 1202–1213.
33. **G. Palermo**, D. Branduardi, M. Masetti, A. Lodola, M. Mor, D. Piomelli, A. Cavalli, M. De Vivo. Covalent inhibitors of fatty acid amide hydrolase: a rationale for the activity of piperidine and piperazine aryl ureas. *J. Med. Chem.* **2011**, 54, 6612–6623.
34. E. Brunk, N. Ashari Astani, P. Athri, P. Campomanes, F. F. de Carvalho, B. F. Curchod, P. Diamantis, M. Doemer, J. Garrec, A. Laktionov, M. Micciarelli, M. Neri, **G. Palermo**, T. J. Penfold, S. Vanni, I. Tavernelli, U. Rothlisberger. *Chimia (Aarau)* **2011**, 65, 667–671.
35. **G. Palermo**, R. Riccio, G. Bifulco. Effect of Electronegative Substituents and Angular Dependence on the Heteronuclear Spin-Spin Coupling Constant $^3J_{C-H}$: An Empirical Prediction Equation Derived by Density Functional Theory Calculations. *J. Org. Chem.* **2010**, 75, 1982–1991.

Other Publications & Preprints

36. L. Casalino, M. Jinek, **G. Palermo**.† Two-metal ion mechanism of DNA cleavage in CRISPR-Cas9. *ChemRxiv preprint* 2019
37. **G. Palermo**,† K. A. Armacost and M. Nagan. Women Make COMP: Mentoring the Next Generation of Women in Computational Chemistry. Viewpoint in *J. Chem. Inf. Model.* 2019, 59, 4061-4062.
38. **G. Palermo**, Y. Sugita, W. Wriggers and R. E. Amaro. Frontiers in CryoEM Modeling. J. Chem. Inf. Del. Editorial in *J. Chem. Inf. Model.* 2019, 59, 3091-3093.
39. **G. Palermo** and M. De Vivo. Computational Methods for Drug Discovery. Book chapter in Encyclopedia of Nanotechnology, 2nd Ed. Springer. 2015, 1-15.

Conference organization and chairman activity

2021/10	Organizer of the Biophysical Society Thematic Meeting “ <i>Emerging theoretical approaches to complement single-particle cryo-electron microscopy</i> ”, funded by the Biophysical Society (\$10,000), International School of Advanced Studies, Trieste (IT)
2020/07	Organizer of the workshop “ <i>Frontiers of Quantum and Classical Modeling of Metals in Biological Systems</i> ” Paris (FR), funded by CECAM (~10,000 €).
2020/06	Organizer of the workshop “ <i>Challenges in RNA modeling and design</i> ” Telluride (CO).
2020/05	Organizer of the “ <i>Southern California Theoretical Chemistry Symposium – SoCal TheoChem</i> ” University of California Riverside
2020/02	Organizer of the “ <i>Morikis Memorial Symposium</i> ” University of California Riverside, in honor and memory of Prof. Dimitrios Morikis
2019/03	Recipient of the Innovative Project Grant (\$5000), awarded by the ACS for the organization of the “ <i>Women Make COMP</i> ” symposium at the 258 th ACS meeting in San Diego (CA). This is the first ACS initiative aimed at motivating young women in computational chemistry.
2019/02	Organizer of the workshop “ <i>Multiscale Modeling from Macromolecules to Cell: Opportunities and Challenges of Biomolecular Simulations</i> ”, Lausanne (CH), funded by CECAM (~13,000 \$), Schrödinger (~1,500 \$) and by the Swiss industry consortium SISF (~5,000 CHF).
2018/08	Organizer of the symposium “ <i>COMP meets CRYO: new frontiers in flexible fitting, image processing and refinement of cryo-EM data</i> ” at the 256 th ACS meeting, Boston.
2018/07	Organizer of the workshop “ <i>Frontiers and challenges of computing metals for biochemical, medical and technological applications</i> ” Paris (FR), funded by CECAM (~10,000 €).
2016/02	Co-chair with Prof. A. Dickson, at the 60 th Biophysical Society meeting.

Professional service

2019-2021	Early career board member of the Journal of Chemical Information and Modeling.
2019/03	Guest editor of the Special Issue “ <i>Multiscale Modeling from Macromolecules to Cell: Opportunities and Challenges of Biomolecular Simulations</i> ” in the Journal of Frontiers in Molecular Biosciences
Reviewing	Reviewer for the scientific journals: (i) <i>Journal of the American Chemical Society</i> , (ii) <i>Journal of Chemical Theory and Computation</i> , (iii) <i>Nature Chemistry</i> , (iv) <i>Journal of Chemical Information and Modeling</i> , (v) <i>PLoS One</i> , (vi) <i>Proteins: Structure, Function and Bioinformatics</i> , (vii) <i>Computational Biology and Chemistry</i> , (viii) <i>Physical Chemistry Chemical Physics</i> , (ix) <i>ACS Central Science</i> , (x) <i>Nature Scientific Reports</i> , (xi) <i>The Journal of Physical Chemistry</i> , (xii) <i>PNAS</i> , (xiii) <i>RNA</i> , (xiv) <i>J Phys Chem B</i> Reviewer for the funding agencies: (i) the European Funding agency <i>PRACE</i> , (ii) the <i>Human Frontiers Science Program</i> , (iii) the <i>National Science Foundation</i>
Membership	American Chemical Society, Biophysical Society, RNA society, Member of the ACS COMP executive committee, American Hearth Association

Communications to Conferences

2020/02	Invited talk at the “Molecular Machines and Assemblies” subgroup, 64 th Biophysical Society annual meeting, San Diego (US)
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2019/09 Invited talk at the conference “*RNA Informatics*”, Hinxton (UK)
 2019/09 Invited talk at the conference “*Structure Based Drug Design*”, Genova (IT)
 2019/08 Three talks at the 258th ACS National Meeting, San Diego (USA)
 2019/04 Two talks at the 257th ACS National Meeting, Boston (USA)
 2019/03 Talk at the 63nd Biophysical Society Meeting, Baltimore (USA)
 2019/03 Two talks at the 257th ACS national meeting in Orlando (FL)
 2018/08 Talk at the 2nd International conference on CRISPR technologies. San Diego (USA)
 2018/08 Talk at the 256th ACS National Meeting, Boston (USA)
 2018/07 Talk at the TSCR workshop “*Challenges in RNA Structural Modeling and Design*”, Telluride (USA)
 2018/05 Invited talk at the CECAM workshop “*Physiological role of ions in the brain: toward a comprehensive understanding via molecular simulations*”, Scuola Normale Superiore, Pisa (IT)
 2018/02 Invited talk and nominee at the “*Future of Biophysics Burroughs Wellcome Fund Symposium*” at the 62nd Biophysical Society Meeting, San Francisco (USA)
 2017/11 Invited talk at the CECAM workshop “*Computational approaches to investigating allostery*”, Lausanne (CH)
 2017/09 Talk at the conference “*Computational Advances in Drug Discovery*”, Lausanne (CH)
 2017/04 Four talks at the 253th ACS National Meeting, San Francisco (USA)
 2017/02 Poster at the 61th Biophysical Society meeting, New Orleans (USA)
 2016/09 Two posters at the EMBO Meeting, Mannheim (DE)
 2016/05 Talk at the CECAM workshop “*Structural and Functional Annotation of Bioinorganic Systems*” Scuola Normale Superiore (Pisa, IT)
 2016/03 Two talks at the 251th ACS National Meeting, San Diego (USA)
 2016/02 Talk and poster at the 60th Biophysical Society meeting, Los Angeles (USA)
 2015/06 Talk at the CECAM workshop “*Modeling activity vs. selectivity in metalloproteins*” Chimie Paris Tech, Paris (FR)
 2015/02 Talk and poster at the 59th Biophysical Society meeting, Baltimore (USA)
 2014/11 Talk at the CECAM workshop “*Advanced modeling to investigate biomolecules*” Italian Institute of Technology, Genova (IT)
 2014/04 Talk at the 245th ACS National Meeting, New Orleans (USA)

Invited talks

2020/04 Invited talk at the University of Texas at Austin
 2020/03 Invited talk at Georgia State University
 2019/11 Invited talk at University of Southern California
 2019/09 Invited talk at Imperial College London (UK)
 2019/04 Invited talk at University of Idaho
 2018/02 Invited talk at Washington University St. Louis
 2018/02 Invited talk at California Institute of Technology
 2018/02 Invited talk at University of Rochester
 2018/02 Invited talk at University of Florida
 2018/02 Invited talk at Max Plank Institute Berlin (DE)
 2018/02 Invited talk at The Scripps Research Institute, La Jolla
 2018/02 Invited talk at University of California Riverside
 2017/06 Invited at the DEShaw women’s forum, NYC (USA)
 2016/09 Invited talk at University of Zürich (CH)
 2017/09 Invited talk at Heidelberg Institute for Theoretical Studies (DE)
 2015/10 Invited talk for the ETH emerging post-doc day 2015, ETH – Zürich
 2015/03 Invited talk at the Forschungszentrum Jülich (DE)
 2015/02 Invited talk at University of Chicago
 2014/12 Invited talk at International School of Advanced Studies, Trieste (IT)

Teaching

BIEN135 Teaching the class “Biophysics and Biothermodynamics” (undergraduate, upper division) at UCR, in **Fall 2018, Fall 2019**

BIEN165	Teaching the class “Biomolecular Engineering” (undergraduate, upper division) at UCR, in Spring 2019, Spring 2020
BIEN249	Teaching the class “Integration of Computational and Experimental Biology” (graduate) at UCR, in Winter 2020
2017	Teaching the seminar course “Integrative structural and computational biophysics” at the Thurgood Marshall College (UCSD)

Mentoring

2018–present	Brandon Mitchell, Rohaine Hsu, Aakash Saha (PhD students, UCR)
2018–present	Marco Medrano, Ponmathi Jayaseelan (undergraduate students, UCR)
2016–2017	Ramces Gonzales, Yibei Jiang (undergraduate UCSD)
2015–2016	Lorenzo Casalino (graduate student, then at UCSD)
2014–2016	Thibaud von Erlach (undergraduate, then at EPFL)
2012–2013	Huan Francisco Bada (undergraduate at EPFL, then at Oxford University)

Former members: (i) Nehemiah T. Zewde, then post-doc at SALK. (ii) Nolan Winiki, then in Medical School at UCR

Collaborations

Present collaborators:

Martin Jinek – University of Zürich, CH (X-ray crystallography and biochemistry)
 Jennifer Doudna – University of California Berkeley, USA (X-ray crystallography and biochemistry)
 Victor Batista – Yale University, USA (computational chemistry)
 George P. Lisi – Brown University (NMR)
 Navtej Toor – University of California San Diego (cryo-EM)

Collaborations at EPFL:

Paul J. Dyson – EPFL, CH (organometallic chemistry)
 Curt A. Davey – NTU, Singapore (nucleosome crystallography)
 Matteo Dal Peraro – EPFL, CH (computational biophysics)
 Micheal Graetzel – EPFL (solar cells technology)
 Alessandra Magistrato – SISSA/CNR, IT (computational biophysics)

Collaborations during graduate studies:

Andrea Cavalli – University of Bologna, IT (computational chemistry)
 Claudia Sissi – University of Padua, IT (biochemistry)
 Micheal L. Klein – Temple University, USA (computational chemistry)
 Daniele Piomelli – UC Irvine, USA (pharmacology)

In the news (main)

2018/08	<u>JACS features Giulia Palermo in 2018 Young Investigators Virtual Issue</u>
2017/03	<u>Supercomputers reveal acrobatics of CRISPR-Cas9</u>
2017/03	<u>Anticancer drug gets a boost when combined with anti-rheumatic</u>
2016/07	<u>The RNA that snips and stitches RNA</u>

Science and Art

Art, Philosophy and Classical Music have been essential part of my training, giving me the opportunity to provide cover for many scientific journals (more information: <https://palermolab.com/science-art/>). The Biophysical Society has selected two of my paintings for the Art & Science Contest at the 59th and 61st annual meetings, where I have been awarded the 1st place prize.