

Curriculum Vitae

Jingyi Fei, Ph.D.

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ACADEMIC APPOINTMENTS

2025- Associate Professor, Department of Biochemistry and Molecular Biology, University of Chicago

2016-2024 Assistant Professor, Department of Biochemistry and Molecular Biology, University of Chicago

Ph.D.-Granting Committee, Program, Institute, and Center Appointments

2026- Associate member, University of Chicago Medicine Comprehensive Cancer Center

2024- Trainer, Committee on Genetics, Genomics and Systems Biology

2020- Trainer, Chemistry and Biology Interface (CBI) training grant

2016- Institute for Biophysical Dynamics

2016- Trainer, Graduate Program in Biophysical Sciences

2016- Trainer, Graduate Program in Biochemistry and Molecular Biophysics

2016- Trainer, Molecular Cellular Biology Training Grant

ACADEMIC TRAINING

2001-2005 B.S. with Honors, Chemical Physics. University of Science and Technology of China, Hefei, China

2005-2010 Ph.D. with Honors, Chemistry, Columbia University, New York, NY

2010-2011 Postdoctoral Fellow, Department of Chemistry, Columbia University, New York, NY

2011-2015 Postdoctoral Fellow, Center for the Physics of Living Cells (NSF Physics Frontiers Center), University of Illinois at Urbana-Champaign

FUNDING

(a) Current:

1. NSF MCB-2246530, PI: Fei & Regev, 8/2023 – 7/2026.

2. NIH R01 HG013495, PI: Fei, 8/2025-7/2029

(b) Past:

1. NIH/CEGS Y1_Pilot, PI: J Fei, 2/1/17-6/30/17; 2. Chicago Biomedical Consortium Catalyst Award, PI: Fei & Mondragon, 2/1/17-2/28/19; 3. NIH/2 R01 GM092830-06A1, PI: Vanderpool, My role: Co-investigator, 4/1/17-3/31/21; 4. Searle Scholars Program, PI: Fei, 7/1/17-6/30/20; 5. NIH/1 R01 MH114102-01, PI: Dickinson & Özkan, My role: Co-investigator, 7/1/17-7/30/21; 6. NIH/1 DP2 OD024286-01, PI: Fei, 09/30/2017 – 08/31/2022; 7. NIH/1R21GM141670-01, PI: Fei & Tang, 6/1/2021 – 05/31/2023.

HONORS, PRIZES, AND AWARDS

2007 Blanche R. and David Kasindorf Fellowship Award, Department of Chemistry, Columbia University

2010 Hammett Award, Department of Chemistry, Columbia University

2017 Searle Scholar, Searle Scholars Program

2017 NIH Director's New Innovator Award

2018 Scialog Fellow on Chemical Machinery of the Cell, Research Corporation for Science Advancement

2024 Kavli Fellow, National Academy of Sciences

2025 BIV Young Faculty Award, Biopolymers in vivo Subgroup, Biophysical Society

INVITED SPEAKING (*past five years*)

2022 Department of Biophysics, Johns Hopkins University; Department of Chemistry, Columbia University; Department of Microbiology, Ohio State University; Université de Strasbourg, Institute of Molecular and Cell Biology (France); Department of Biochemistry, University of Utah; Symposium: Portable analytical systems and point-of-care analysis, Canadian Chemistry Conference and Exhibition (CCCE) (Canada); 6th Midwest single-molecule workshop; Symposium: Dynamics of biomolecules in complex environments, American Chemical Society Fall Meeting; 15th Asia Pacific Physics Conference (APPC15) (virtual).

2023 Department of Chemistry, Arizona State University; Department of Biochemistry, University of Wisconsin, Madison; Department of Biochemistry & Cellular and Molecular Biology, The University of Tennessee;

Curriculum Vitae

- Department of Chemistry, Stanford University; 37th Annual Symposium of The Protein Society; Symposium: Optical spectroscopy and microscopy across biological scales, American Chemical Society Fall Meeting; Advanced Optical Imaging Symposium, University of Illinois Chicago.
- 2024 Institute of Theoretical and Interdisciplinary Physics, Shanghai Jiao Tong University (China); School of Life Sciences, Westlake University (China); Sir Run Run Shaw Hospital, Zhejiang University (China); Shenzhen Bay Laboratory (China); Department of Chemistry, The University of Hong Kong (Hong Kong Special Administrative Region of China); Subgroup Symposium: Single-Molecule Forces, Manipulation & Visualization, 68th Biophysical Society Annual Meeting; Biochemical Society Harden Conference on Single Molecule Bacteriology (SMOLBAC) III (United Kingdom).
- 2025 Division of Chemical Biology and Medicinal Chemistry, University of Texas, Austin, TX; Biopolymers in vivo Subgroup Symposium, Biophysical Society 2025 Annual Meeting, Los Angeles, CA. Condensate Workshop, National Institute for theory and Mathematics in Biology, Chicago, IL. RNA Revolution: Unraveling Cancer's Secrete Symposium, The University of Chicago, Chicago, IL. Department of Microbiology and Molecular Genetics, University of California, Irvine, CA.
- 2026 CDB Experts-in-the-field Seminar Series, Northwestern University Feinberg School of Medicine, Chicago, IL; Keynote lecture, RNA Club mini-symposium, University of Illinois, Urbana-Champaign, IL; Advances in Genomic Technology Development (AGTD) 2026 Annual Meeting, Farmington, CT; School of Life Science, Peking University, Beijing, China; Chinese-American Chemistry & Chemical Biology Professors Association 2026 Annual Meeting, Hangzhou China; RNA Therapeutics Institute, UMass Chan Medical School, Worcester, MA; Department of Chemistry, University at Albany, SUNY, Albany, NY.

INVITED, ELECTED, OR APPOINTED EXTRAMURAL SERVICE

- 2016 Platform co-chair, Biophysical Society Annual Meeting.
- 2017 Invited guest editor for special issue 'Development and applications of single-molecule and super-resolution imaging' at the journal *Physical Biology*,
- 2017-2022 Member of eLife Early-Career Reviewer Pool
- 2019- Advisory board of Review Commons.
- 2021 Section co-chair, Session, 2021 RNA Society Meeting.
- 2023 Symposium co-chair, American Chemical Society Fall Meeting 2023, San Francisco.
- Various Manuscript reviewer for > 25 journals, including *Science*, *PNAS*, *Nature Methods*, *Nature Chemical Biology*, *Nature Chemistry*, *Nature Structural and Molecular Biology*, *Molecular Cell*, *eLife*, *Nature Communications*, *Cell Reports*, *Science Advances*, *Plos Biology*, *JACS*, *Biophysical Journal*, etc.
- Various Grant reviewer for NIH, NSF, The M.J. Murdock Charitable Trust, German-Israeli Foundation for Scientific Research and Development

PROFESSIONAL SOCIETIES

Biophysical Society, American Chemical Society, The RNA Society (Highlighted in the RNA Society "Spotlight" in 2022), American Physical Society, The Protein Society, American Society for Biochemistry and Molecular Biology.

TEACHING

The College (B.A., B.S.)

BIOS 21360, Advanced Molecular Biology.

Graduate programs (Ph.D.):

BCMB 30600, Nucleic Acids, Fall Quarter; BCMB 30800, Single Molecule Biochemistry, Spring Quarter (guest lecture). CHEM 33200, Chemical Biology I, Fall Quarter (guest lecture); MGCB 31200, Molecular Biology I, Winter Quarter (guest lecture).

Other:

- 2016-2019 Faculty trainer, Center for the Physics of Living Cells Summer School, University of Illinois at Urbana-Champaign. Provide hand-on training in the super-resolution microscopy module to students from domestic and international institutes.
- 2016-2017 Guest lecturer, Modern Biophysical Methods, Department of Chemistry, University of Illinois at Chicago.

PUBLICATIONS

* Co-correspondence

Equal contribution

*(a) Peer-reviewed publications in the primary literature, exclusive of abstracts
Publications at The University of Chicago*

51. X Fan, C Tan, JH Mu, SM Chiang, Y Xiao, C He, ITS Li, WS Wu, **J Fei**, (2026) Super-resolved spatial organization of the nucleolar transcriptome. *BioRxiv*, 2026.05. 19.726041.
<https://www.biorxiv.org/content/10.64898/2026.05.19.726041v1.abstract>
50. L Wen[#], MA Arias[#], X Fan, S Paul, SE Liao, M Sobczyk, O Regev*, **J Fei***, (2026) RNA localization to nuclear speckles follows splicing logic. *Nucleic Acids Research*, **54**, gkag174.
<https://academic.oup.com/nar/article/54/5/gkag174/8508366>
49. Z Zhou, K Prévost, M-C Carrier N El Ashry, JH Mu, CDV Valle, S Park, A Guzman, E Massé, **J Fei** (2025). Structural dependence of ProQ-mRNA interactions in live bacterial cells. *Communications Biology*, **8**: 1780.
<https://www.nature.com/articles/s41467-024-50885-x>
48. H Glauninger, JAM Bard, CJ Wong Hickernell, KM Velez, EM Airolidi, W Li, RH Singer, S Paul, **J Fei**, TR Sosnick, EWJ Wallace, DA Drummond, (2025) Transcriptome-wide mRNP condensation precedes stress granule formation and excludes new mRNAs. *Molecular Cell*, **85**(23): p4393-4409.e11.
[https://www.cell.com/molecular-cell/fulltext/S1097-2765\(25\)00899-8](https://www.cell.com/molecular-cell/fulltext/S1097-2765(25)00899-8)
47. E Campos-Chavez[#], S Paul[#], Z Zhou, D Alonso, AR Verma, **J Fei***, A Mondragon*, (2024). Translational T-box riboswitches bind tRNA by modulating conformational flexibility. *Nature Communications*. **15**: 6592.
<https://www.nature.com/articles/s41467-024-50885-x>
46. J Wu[#], Y Xiao[#], Y Liu[#], L Wen, C Jin, S Liu, S Paul, C He, O Regev*, **J Fei***, (2024) Dynamics of RNA localization to nuclear speckles are connected to splicing efficiency. *Science Advances*. **10**: eadp7727.
<https://www.science.org/doi/10.1126/sciadv.adp7727>
45. S Paul[#], MA Arias[#], L Wen, SE Liao, J Zhang, X Wang, O Regev*, **J Fei***, (2024). RNA molecules display distinctive organization at nuclear speckles. *iScience* **27**(5):109603.
<https://www.sciencedirect.com/science/article/pii/S2589004224008253?via%3Dihub>
44. T Ha, **J Fei**, S Schmid, NK Lee, RL Gonzalez, Jr., S Paul, S Yeou (2024). Fluorescence resonance energy transfer at the single-molecule level. *Nature Reviews Methods Primers* **4**, Article number: 21.
<https://www.nature.com/articles/s43586-024-00298-3>
43. T Wu, AY Cheng, Y Zhang, J Xu, J Wu, L Wen, X Li, B Liu, X Dou, P Wang, L Zhang, **J Fei**, J Li, Z Ouyang, C He (2024). KARR-seq reveals cellular RNA higher-order structures and RNA-RNA interactions. *Nature Biotechnology*.
<https://www.nature.com/articles/s41587-023-02109-8>
42. Y Xiao, Y-M Chen, Z Zou, C Ye, X Dou, J Wu, C Liu, S Liu, H Yan, P Wang, T Zeng, Q Liu, **J Fei**, W Tang, C He (2024). Profiling of RNA-binding protein binding sites by in-situ reverse transcription-based sequencing, *Nature Methods*. **21**(2):247
<https://www.nature.com/articles/s41592-023-02146-w>
41. KK Ray, CD Kinz-Thompson, **J Fei**, B Wang, Q Lin, RL Gonzalez (2023) Entropic control of the free-energy landscape of an archetypal biomolecular machine, *Proc Natl Acad Sci, USA*, **120**: e2220591120.
<https://www.pnas.org/doi/10.1073/pnas.2220591120>
40. Z Luo, J Zhang, **J Fei**, S Ke, (2022) Deep learning modeling m6A deposition reveals the importance of downstream cis-element sequences, *Nature Communications*, **13**:2720.
<https://www.nature.com/articles/s41467-022-30209-7>
39. MA Reyer, S Chennakesavalu[#], EM Heideman[#], X Ma, M Bujnowska, L Hong, AR Dinner, CK Vanderpool, **J Fei**, (2021) Kinetic modeling reveals additional regulation at co-transcriptional level by post-transcriptional sRNA regulators, *Cell Reports*, **36**: 109764. (# co-authorship)
<https://www.sciencedirect.com/science/article/pii/S2211124721012183?via%3Dihub>
38. D Lalaouna, K Prevost[#], S Park[#], T Chenard, M Bouchard, M Caron, CK Vanderpool, **J Fei***, E Masse*, (2021) Binding of the RNA chaperone Hfq on target mRNAs promotes the small RNA RyhB-induced degradation in Escherichia coli, *Non-Coding RNA*, **7**: 64. (* co-correspondence)

- <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8544716/>
37. Yu Y[#], Zheng Q[#], Erramilli SK[#], Pan M[#], Park S, Xie Y, Li J, **Fei J**, Kossiakoff AA*, Liu L*, Zhao M*, (2021) K29-linked ubiquitin signaling regulates proteotoxic stress response and cell cycle, *Nature Chemical Biology*, doi: 10.1038/s41589-021-00823-5. (* co-correspondence, [#] co-authorship)
<https://www.nature.com/articles/s41589-021-00823-5>
36. E Lerner[#], A Barth[#], J Hendrix[#], B Ambrose, V Birkedal, SC Blanchard, R Borner, HS Chung, T Cordes, TD Craggs, AA Deniz, J Diao, **J Fei**, RL Gonzalez, IV Gopich, T Ha, C A Hanke, G Haran, NS Hatzakis, S Hohng, S-C Hong, T Hugel, A Ingargiola, C Joo, AN Kapanidis, HD Kim, T Laurence, NK Lee, T-H Lee, EA Lemke, E Margeat, J Michaelis, X Michalet, S Myong, D Nettels, T-O Peulen, E Ploetz, Y Razvag, NC Robb, B Schuler, H Soleimaninejad, C Tang, R Vafabakhsh, DC Lamb*, CAM Seidel*, S Weiss*, (2021) FRET-based dynamic structural biology: Challenges, perspectives and an appeal for open-science practices, *eLife*, **10**:e60416. (* co-correspondence, [#] co-authorship)
<https://elifesciences.org/articles/60416>
35. S Park[#], K Prevost[#], EM Heideman[†], M-C Carrier[†], MS Azam, MA Reyer, W Liu, E Masse*, **J Fei***, (2021) Dynamic interactions between the RNA chaperone Hfq, small regulatory RNAs and mRNAs in live bacterial cells, *eLife*, **10**:e64207. (* co-correspondence, [#] [†] co-authorship)
<https://elifesciences.org/articles/64207>
34. A Poddar, MS Azam, T Kayikcioglu, M Bobrovskyy, J Zhang, X Ma, P Labhsetwar, **J Fei**, D Singh, Z Luthey-Schulten, CK Vanderpool, T Ha, (2021) Effects of individual base-pairs on in vivo target search and destruction kinetics of small RNA, *Nature Communications* **12**:1
<https://www.nature.com/articles/s41467-021-21144-0>
33. Y Fan, Y Lim, LS Wyss, S Park, C Xue, H Fu, **J Fei**, Y Hong, B Wang (2021) Mechanical expansion microscopy, *Methods in Cell Biology*, **161**:125.
<https://www.sciencedirect.com/science/article/pii/S0091679X20301023>
32. M Bujnowska, J Zhang, Q Dai, EM Heideman, **J Fei**, (2020), Deoxyribozyme-based method for absolute quantification of N6-methyladenosine fraction at specific sites of RNA, *Journal of Biological Chemistry*, **295**:6992.
[https://www.jbc.org/article/S0021-9258\(17\)48202-0/fulltext](https://www.jbc.org/article/S0021-9258(17)48202-0/fulltext)
31. Y Wang*, **J Fei*** (2020) Continuous active development of super-resolution fluorescence microscopy, *Phys Biol* **17**:030401. (* co-correspondence)
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7658958/>
30. S Park, MA Reyer, EL McLean, W Liu, **J Fei**, (2019) An improved method for bacterial immunofluorescence staining to eliminate antibody exclusion from the fixed nucleoid, *Biochemistry* **58**:4457.
<https://pubs.acs.org/doi/10.1021/acs.biochem.9b00724>
29. J Zhang[#], B Chetani[#], ED Cormack, D Alonso, W Liu, A Mondragón, **J Fei**, (2018), Specific structural elements of the T-box riboswitch drive the two-step binding of the tRNA ligand, *eLife*, **7**:e39518. ([#] co-authorship).
<https://elifesciences.org/articles/39518>
28. **J Fei***, CM Sharma*. (2018) RNA Localization in Bacteria, *Microbiol Spectr*, **6**, no. 5 doi:10.1128/microbiolspec.RWR-0024-2018. (* co-correspondence)
<http://www.asmscience.org/content/journal/microbiolspec/10.1128/microbiolspec.RWR-0024-2018>
27. S Park, J Zhang, MA Reyer, J Zareba, AA Troy, **J Fei**. (2018) Conducting Multiple Imaging Modes with One Fluorescence Microscope, *JoVE*, **140**: e58320, doi:10.3791/58320.
<https://www.jove.com/video/58320/conducting-multiple-imaging-modes-with-one-fluorescence-microscope>
26. D Singh, Y Wang, J Mallon, O Yang, **J Fei**, A Poddar, D Ceylan, S Bailey, T Ha. (2018) Mechanisms of improved specificity of engineered Cas9s revealed by single-molecule FRET analysis, *Nat Struct Mol Biol*, **25**, 347.
<https://www.nature.com/articles/s41594-018-0051-7>
25. **J Fei***[#], M Jadalih[#], TS Harmon, ITS Li, B Hua, Q Hao, AS Holehouse, MA Reyer, Q Sun, SM Freier, RV Pappu, KV Prasanth*, T Ha. (2017) Quantitative analysis of multilayer organization of proteins and RNA in nuclear speckles at super resolution. *J Cell Sci*, **jcs**. 206854. (* co-correspondence, [#] co-authorship)

<http://jcs.biologists.org/content/early/2017/11/08/jcs.206854>

24. MA Reyer, EL McLean, S Chennakesavalu, **J Fei**. (2017) An Automated Image Analysis Method for Segmenting Fluorescent Bacteria in 3D. *Biochemistry*, **57**, 209.
<https://pubs.acs.org/doi/10.1021/acs.biochem.7b00839>
23. S Jiang, S Park, SD Challapalli, **J Fei**, Y Wang (2017) Robust nonparametric quantification of clustering density of molecules in single-molecule localization microscopy. *PLoS One*, **12**, e0179975
<https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0179975>
22. CR Lloyd, S Park, **J Fei**, CK Vanderpool (2017) The small protein SgrT controls transport activity of the glucose-specific phosphotransferase system. *J Bacteriol*, **199**, e00869-16.
<https://jb.asm.org/content/199/11/e00869-16>

Publications Prior to UChicago

21. D Singh, SH Sternberg, **J Fei**, JA Doudna, T Ha (2016) Real-time observation of DNA recognition and rejection by the RNA-guided endonuclease Cas9. *Nat Commun*, **7**, 12778.
<https://www.nature.com/articles/ncomms12778>
20. D Balasubramanian, PT Ragonathan, **J Fei**, CK Vanderpool (2016) A Prophage-Encoded Small RNA Controls Metabolism and Cell Division in Escherichia coli. *mSystems*, **1**, e00021-15.
<https://msystems.asm.org/content/1/1/e00021-15>
19. X Zong, S Nakagawa, SM Freier, **J Fei**, T Ha, SG Prasanth, KV Prasanth (2016) Natural Antisense RNA promotes 3' end processing and maturation of MALAT1 lncRNA. *Nucleic Acids Res*, **44**, 2898-2908.
<https://academic.oup.com/nar/article/44/6/2898/2499457>
18. JR Peterson, JA Cole, **J Fei**, T Ha, ZA Luthey-Schulten (2015) Effects of DNA replication on mRNA noise. *Proc Natl Acad Sci USA*, **112**: 15886-15891
<https://www.pnas.org/content/112/52/15886>
17. J Zhang, **J Fei**, BJ Leslie, KY Han, TE Kuhlman, T Ha (2015) Tandem Spinach Array for mRNA Imaging in Living Bacterial Cells. *Sci Rep*, **5**: 17295.
<https://www.nature.com/articles/srep17295>
16. **J Fei**, D Singh, Q Zhang, S Park, D Balasubramanian, I Golding, CK Vanderpool, T Ha (2015) Determination of in vivo target search kinetics of regulatory non-coding RNA. *Science*, **347**: 1371-1374.
<http://science.sciencemag.org/content/347/6228/1371>
15. W Ning, **J Fei**, RL Gonzalez (2014) The ribosome uses cooperative conformational changes to maximize and regulate the efficiency of translation. *Proc Natl Acad Sci USA*, **111**: 12073–12078.
<https://www.pnas.org/content/111/33/12073.long>
14. HK Kim, F Liu, **J Fei**, C Bustamante, RL Gonzalez, I Tinoco (2014) A frameshifting stimulatory stem loop destabilizes the hybrid state and impedes ribosomal translocation. *Proc Natl Acad Sci USA*, **111**: 5538-5543.
<https://www.pnas.org/content/111/15/5538.long>
13. B Chen, G Boël, Y Hashem, W Ning, **J Fei**, C Wang, RL Gonzalez Jr, JF Hunt, J Frank (2014) EttA binds at ribosomal E site and regulates translation by restricting ribosome dynamics. *Nat Struct Mol Biol*, **21**: 152–159.
<https://www.nature.com/articles/nsmb.2741>
12. KY Han, BJ Leslie, **J Fei**, J Zhang, T Ha (2013) Understanding the photophysics of the Spinach-DFHBI RNA aptamer-fluorogen complex to improve live cell RNA imaging. *J Am Chem Soc*, **135**: 19033–19038.
<https://pubs.acs.org/doi/abs/10.1021/ja411060p>
11. **J Fei** and T Ha. (2013). Watching DNA breath one molecule at a time. *Proc Natl Acad Sci, USA*, **110**: 17173-17174.
<https://www.pnas.org/content/110/43/17173>
10. **J Fei**, AC Richard, JE Bronson, RL Gonzalez Jr (2011). Transfer RNA-mediated control of ribosome dynamics during translation. *Nat Struct Mol Biol*, **18**:1043-51.
<https://www.nature.com/articles/nsmb.2098>
9. B Wang, J Ho, **J Fei**, RL Gonzalez Jr, Q Lin. (2011) A microfluidic approach for investigating the temperature dependence of biomolecular activity with single-molecule resolution. *Lab Chip*, **11**: 274-81.
<https://pubs.rsc.org/en/Content/ArticleLanding/2011/LC/c0lc00157k#!divAbstract>

8. X Ye, **J Fei**, K Xu, R Bai (2010) Effect of polystyrene-b-poly(ethylene oxide) on self-assembly of polystyrene-b-poly(N-isopropylacrylamide) in aqueous solution. *J Polym Sci B: Polym Phys*, **48**: 1168-74.
<https://onlinelibrary.wiley.com/doi/abs/10.1002/polb.22006>
7. X Ye, **J Fei**, J Guan, X Zhou, G Zhang (2010) Dispersion of polystyrene inside polystyrene-b-poly(N-isopropylacrylamide) micelles in water. *J Polym Sci B: Polym Phys*, **48**: 749-55.
<https://onlinelibrary.wiley.com/doi/abs/10.1002/polb.21948>
6. **J Fei**, J Wang, SH Sternberg, DD MacDougall, MM Elvekrog, D Pulukkunat, RL Gonzalez Jr (2010) A highly-purified, fluorescently-labeled in vitro translation system for single molecule studies of protein synthesis. *Methods Enzymol*, **472**: 221-259.
<https://www.sciencedirect.com/science/article/pii/S0076687910720085>
5. JE Bronson, JM Hofman, **J Fei**, RL Gonzalez, CH Wiggins (2010) Graphical models for inferring single molecule dynamics. *BMC Bioinformatics*, **Suppl 8**: S2.
<https://bmcbioinformatics.biomedcentral.com/articles/10.1186/1471-2105-11-S8-S2>
4. JE Bronson, **J Fei**, JM Hofman, RL Gonzalez, CH Wiggins (2009). Learning rates and states from biophysical time series: A Bayesian approach to model selection and single-molecule FRET data. *Biophys J*, **97**: 3196-3205.
[https://www.cell.com/biophysj/fulltext/S0006-3495\(09\)01513-6](https://www.cell.com/biophysj/fulltext/S0006-3495(09)01513-6)
Evaluated by Faculty of 1000 (<http://www.f1000biology.com/article/id/2278956>).
3. **J Fei**, JE Bronson, JM Hofman, RL Srinivas, CH Wiggins, RL Gonzalez (2009). Allosteric collaboration between elongation factor G and the ribosomal L1 stalk directs tRNA movements during translation. *Proc Natl Acad Sci, USA*, **106**:15702-15707.
<https://www.pnas.org/content/106/37/15702>
Featured as a Science and Technology News Item in Chem Eng News 87, 29
2. SH Sternberg, **J Fei**, N Prywes, KA McGrath, RL Gonzalez (2009). Translation factors direct intrinsic ribosome dynamics during termination and ribosome recycling. *Nat Struct Mol Biol*, **16**: 861-868.
<https://www.nature.com/articles/nsmb.1622>
Featured as a Research Highlight in Nat Chem Biol 5, 540
Featured as a Science and Technology News Item in Chem Eng News 87, 29.
1. **J Fei**, P Kosuri, DD MacDougall, RL Gonzalez (2008). Coupling of ribosomal L1 stalk and tRNA dynamics during translation elongation. *Mol Cell*, **30**: 348-359.
[https://www.cell.com/molecular-cell/fulltext/S1097-2765\(08\)00212-8?_returnURL=https%3A%2F%2Flinkinghub.elsevier.com%2Fretrieve%2Fpii%2FS1097276508002128%3Fshowall%3Dtrue](https://www.cell.com/molecular-cell/fulltext/S1097-2765(08)00212-8?_returnURL=https%3A%2F%2Flinkinghub.elsevier.com%2Fretrieve%2Fpii%2FS1097276508002128%3Fshowall%3Dtrue)

(b) Book chapters

1. S Park, M Bujnowska, EL McLean, **J Fei**, (2018) Quantitative Super-Resolution Imaging of Small RNAs in Bacterial Cells, Pages 199-212 in *Bacterial Regulatory RNA: Methods and Protocols* (Editor: Véronique Arluison and Claudio Valverde), Springer New York.
2. V Tripathi, **J Fei**, T Ha, KV Prasanth (2015) RNA Fluorescence In Situ Hybridization in Cultured Mammalian Cells. Pages 123-136 in: *Regulatory Non-Coding RNAs* (Editor: Gordon G. Carmichael), Springer New York.
3. DD MacDougall, **J Fei**, RL Gonzalez Jr (2011). Single-molecule fluorescence resonance energy transfer investigations of ribosome-catalyzed protein synthesis. Pages 93-116 in: *Molecular Machines in Biology: Workshop of the Cell* (Editor: Joachim Frank), Cambridge University Press.