

# Stanford

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## Jin Billy Li

Professor of Genetics

### CONTACT INFORMATION

- **Administrative Contact**

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### Bio

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### ACADEMIC APPOINTMENTS

- Professor, Genetics
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, Maternal & Child Health Research Institute (MCHRI)
- Faculty Fellow, Sarafan ChEM-H
- Member, Stanford Cancer Institute
- Member, Wu Tsai Neurosciences Institute

### ADMINISTRATIVE APPOINTMENTS

- Director, Graduate Studies of Genetics PhD Program, (2014-2022)
- Member, Stanford Diabetes Research Center, (2020- present)

### HONORS AND AWARDS

- Chen Award of Excellence, Human Genome Organisation (HUGO) (2020)
- New Scholar Award, Ellison Medical Foundation (2012-2016)

### PROFESSIONAL EDUCATION

- Postdoctoral Fellow, Harvard Medical School , Genomics and Technology
- Ph.D., Washington University in St. Louis , Genetics and Computational Biology (2005)
- M.S., Tsinghua University , Molecular Biology (1999)
- B.S., Tsinghua University , Biology (1997)

### LINKS

- Li Lab Website: <http://lilab.stanford.edu>

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

The Li Lab is primarily interested in RNA editing mediated by ADAR enzymes. We co-discovered that the major function of RNA editing is to label endogenous dsRNAs as "self" to avoid being recognized as "non-self" by MDA5, a host innate immune dsRNA sensor, leading us to pursue therapeutic applications in cancer, autoimmune diseases, and viral infection. The other major direction of the lab is to develop technologies to harness endogenous ADAR enzymes for site-specific transcriptome engineering.

## Teaching

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### STANFORD ADVISEES

#### Doctoral Dissertation Reader (AC)

Usman Enam, Drew Galls, Abby Thurm, Angela Zhang

#### Postdoctoral Faculty Sponsor

Feng Jiang, Kenneth Osterhoudt

### GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biomedical Informatics (Phd Program)
- Biophysics (Phd Program)
- Genetics (Phd Program)

## Publications

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### PUBLICATIONS

- **RNA editing and immune control: from mechanism to therapy.** *Current opinion in genetics & development*  
Hu, S., Li, J. B.  
2024; 86: 102195
- **Multifaceted roles of RNA editing enzyme ADAR1 in innate immunity.** *RNA (New York, N.Y.)*  
Jarmoskaite, I., Li, J. B.  
2024
- **Voices: Challenges and opportunities in RNA biology** *CELL CHEMICAL BIOLOGY*  
Chen, L., Ingolia, N. T., Insko, M. L., Li, J., Oberdoerffer, S., Weeks, K. M.  
2024; 31 (1): 10-13
- **ADAR1p150 prevents MDA5 and PKR activation via distinct mechanisms to avert fatal autoinflammation.** *Molecular cell*  
Hu, S., Heraud-Farlow, J., Sun, T., Liang, Z., Goradia, A., Taylor, S., Walkley, C. R., Li, J. B.  
2023
- **A-to-I RNA editing by ADAR and its therapeutic applications: From viral infections to cancer immunotherapy.** *Wiley interdisciplinary reviews. RNA*  
Datta, R., Adamska, J. Z., Bhate, A., Li, J. B.  
2023: e1817
- **Ablation of Adar1 in myeloid cells imprints a global antiviral state in the lung and heightens early immunity against SARS-CoV-2.** *Cell reports*  
Adamska, J. Z., Verma, R., Gupta, S., Hagan, T., Wimmers, F., Floyd, K., Li, Q., Valore, E. V., Wang, Y., Trisal, M., Vilches-Moure, J. G., Subramaniam, S., Walkley, et al  
2023; 42 (1): 112038
- **Developmentally regulated alternate 3' end cleavage of nascent transcripts controls dynamic changes in protein expression in an adult stem cell lineage.** *Genes & development*

- Berry, C. W., Olivares, G. H., Gallicchio, L., Ramaswami, G., Glavic, A., Olguín, P., Li, J. B., Fuller, M. T.  
2022
- **RNA editing underlies genetic risk of common inflammatory diseases.** *Nature*  
Li, Q., Gloudemans, M. J., Geisinger, J. M., Fan, B., Aguet, F., Sun, T., Ramaswami, G., Li, Y. I., Ma, J. B., Pritchard, J. K., Montgomery, S. B., Li, J. B.  
2022
  - **CLUSTER guide RNAs enable precise and efficient RNA editing with endogenous ADAR enzymes in vivo.** *Nature biotechnology*  
Reautschnig, P., Wahn, N., Wettengel, J., Schulz, A. E., Latifi, N., Vogel, P., Kang, T., Pfeiffer, L. S., Zarges, C., Naumann, U., Zender, L., Li, J. B., Stafforst, et al  
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  - **RNA editing restricts hyperactive ciliary kinases.** *Science (New York, N.Y.)*  
Li, D., Liu, Y., Yi, P., Zhu, Z., Li, W., Zhang, Q. C., Li, J. B., Ou, G.  
2021; 373 (6558): 984-991
  - **Population-scale tissue transcriptomics maps long non-coding RNAs to complex disease.** *Cell*  
de Goede, O. M., Nachun, D. C., Ferraro, N. M., Gloudemans, M. J., Rao, A. S., Smail, C., Eulalio, T. Y., Aguet, F., Ng, B., Xu, J., Barbeira, A. N., Castel, S. E., Kim-Hellmuth, et al  
2021
  - **Learning cis-regulatory principles of ADAR-based RNA editing from CRISPR-mediated mutagenesis.** *Nature communications*  
Liu, X., Sun, T., Shcherbina, A., Li, Q., Jarmoskaite, I., Kappel, K., Ramaswami, G., Das, R., Kundaje, A., Li, J. B.  
2021; 12 (1): 2165
  - **The GTEx Consortium atlas of genetic regulatory effects across human tissues** *SCIENCE*  
Aguet, F., Barbeira, A. N., Bonazzola, R., Brown, A., Castel, S. E., Jo, B., Kasela, S., Kim-Hellmuth, S., Liang, Y., Parsana, P., Flynn, E., Fresard, L., Gamazon, et al  
2020; 369 (6509): 1318-+
  - **Adar RNA editing-dependent and -independent effects are required for brain and innate immune functions in Drosophila.** *Nature communications*  
Deng, P., Khan, A., Jacobson, D., Sambrani, N., McGurk, L., Li, X., Jayasree, A., Hejatko, J., Shohat-Ophir, G., O'Connell, M. A., Li, J. B., Keegan, L. P.  
2020; 11 (1): 1580
  - **A Quantitative Proteome Map of the Human Body.** *Cell*  
Jiang, L. n., Wang, M. n., Lin, S. n., Jian, R. n., Li, X. n., Chan, J. n., Dong, G. n., Fang, H. n., Robinson, A. E., Snyder, M. P.  
2020
  - **Unbiased Identification of trans Regulators of ADAR and A-to-I RNA Editing.** *Cell reports*  
Freund, E. C., Sapiro, A. L., Li, Q. n., Linder, S. n., Moresco, J. J., Yates, J. R., Li, J. B.  
2020; 31 (7): 107656
  - **Zinc Finger RNA-Binding Protein Zn72D Regulates ADAR-Mediated RNA Editing in Neurons.** *Cell reports*  
Sapiro, A. L., Freund, E. C., Restrepo, L. n., Qiao, H. H., Bhate, A. n., Li, Q. n., Ni, J. Q., Mosca, T. J., Li, J. B.  
2020; 31 (7): 107654
  - **GLOBAL LANDSCAPE AND GENETIC REGULATION OF RNA EDITING IN CORTICAL SAMPLES FROM INDIVIDUALS WITH SCHIZOPHRENIA**  
Breen, M., Dobbyn, A., Li, Q., Roussos, P., Hoffman, G., Stahl, E., Chess, A., Li, J., Devlin, B., Buxbaum, J., CommonMind Consortium  
ELSEVIER.2019: S112-S113
  - **ADAR1: A New Target for Immuno-oncology Therapy.** *Molecular cell*  
Bhate, A., Sun, T., Li, J. B.  
2019; 73 (5): 866-68
  - **Illuminating spatial A-to-I RNA editing signatures within the Drosophila brain** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Sapiro, A. L., Shmueli, A., Henry, G., Li, Q., Shalit, T., Yaron, O., Paas, Y., Li, J., Shohat-Ophir, G.  
2019; 116 (6): 2318-27
  - **Precise RNA editing by recruiting endogenous ADARs with antisense oligonucleotides.** *Nature biotechnology*  
Merkle, T., Merz, S., Reautschnig, P., Blaha, A., Li, Q., Vogel, P., Wettengel, J., Li, J. B., Stafforst, T.

2019

- **Illuminating spatial A-to-I RNA editing signatures within the Drosophila brain.** *Proceedings of the National Academy of Sciences of the United States of America*  
Sapiro, A. L., Shmueli, A., Henry, G. L., Li, Q., Shalit, T., Yaron, O., Paas, Y., Billy Li, J., Shohat-Ophir, G.  
2019
- **Global landscape and genetic regulation of RNA editing in cortical samples from individuals with schizophrenia.** *Nature neuroscience*  
Breen, M. S., Dobbyn, A. n., Li, Q. n., Roussos, P. n., Hoffman, G. E., Stahl, E. n., Chess, A. n., Sklar, P. n., Li, J. B., Devlin, B. n., Buxbaum, J. D.  
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- **The THO Complex Coordinates Transcripts for Synapse Development and Dopamine Neuron Survival.** *Cell*  
Maeder, C. I., Kim, J., Liang, X., Kaganovsky, K., Shen, A., Li, Q., Li, Z., Wang, S., Xu, X. Z., Li, J. B., Xiang, Y. K., Ding, J. B., Shen, et al  
2018
- **Efficient and precise editing of endogenous transcripts with SNAP-tagged ADARs** *NATURE METHODS*  
Vogel, P., Moschref, M., Li, Q., Merkle, T., Selvasaravanan, K. D., Li, J., Stafforst, T.  
2018; 15 (7): 535+
- **Pre-reproductive stress and fluoxetine treatment in rats affect offspring A-to-I RNA editing, gene expression and social behavior** *ENVIRONMENTAL EPIGENETICS*  
Zaidan, H., Ramaswami, G., Barak, M., Li, J. B., Gaisler-Salomon, I.  
2018; 4 (2): dvy021
- **Updates to the RNA mapping database (RMDB), version 2** *NUCLEIC ACIDS RESEARCH*  
Yesselman, J. D., Tian, S., Liu, X., Shi, L., Li, J., Das, R.  
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- **Updates to the RNA mapping database (RMDB), version 2.** *Nucleic acids research*  
Yesselman, J. D., Tian, S., Liu, X., Shi, L., Li, J. B., Das, R.  
2018; 46 (D1): D375–D379
- **A-to-I RNA editing in the rat brain is age-dependent, region-specific and sensitive to environmental stress across generations.** *BMC genomics*  
Zaidan, H. n., Ramaswami, G. n., Golumbic, Y. N., Sher, N. n., Malik, A. n., Barak, M. n., Galiani, D. n., Dekel, N. n., Li, J. B., Gaisler-Salomon, I. n.  
2018; 19 (1): 28
- **Identifying cis-mediators for trans-eQTLs across many human tissues using genomic mediation analysis.** *Genome research*  
Yang, F., Wang, J., Pierce, B. L., Chen, L. S.  
2017; 27 (11): 1859–1871
- **Co-expression networks reveal the tissue-specific regulation of transcription and splicing.** *Genome research*  
Saha, A., Kim, Y., Gewirtz, A. D., Jo, B., Gao, C., McDowell, I. C., Engelhardt, B. E., Battle, A.  
2017; 27 (11): 1843–1858
- **Protein recoding by ADAR1-mediated RNA editing is not essential for normal development and homeostasis.** *Genome biology*  
Heraud-Farlow, J. E., Chalk, A. M., Linder, S. E., Li, Q., Taylor, S., White, J. M., Pang, L., Liddicoat, B. J., Gupte, A., Li, J. B., Walkley, C. R.  
2017; 18 (1): 166
- **Abnormalities in A-to-I RNA editing patterns in CNS injuries correlate with dynamic changes in cell type composition** *SCIENTIFIC REPORTS*  
Gal-Mark, N., Shallev, L., Sweetat, S., Barak, M., Li, J. B., Levanon, E. Y., Eisenberg, E., Behar, O.  
2017; 7
- **Molecular definition of a metastatic lung cancer state reveals a targetable CD109-Janus kinase-Stat axis.** *Nature medicine*  
Chuang, C., Greenside, P. G., Rogers, Z. N., Brady, J. J., Yang, D., Ma, R. K., Caswell, D. R., Chiou, S., Winters, A. F., Grüner, B. M., Ramaswami, G., Spencley, A. L., Kopecky, et al  
2017; 23 (3): 291–300
- **Deficiency of microRNA miR-34a expands cell fate potential in pluripotent stem cells** *SCIENCE*  
Choi, Y. J., Lin, C., Rizzo, D., Chen, S., Kim, T. A., Tan, M. H., Li, J. B., Wu, Y., Chen, C., Xuan, Z., Macfarlan, T., Peng, W., Lloyd, et al  
2017; 355 (6325): 596–?

- **Evolutionary analysis reveals regulatory and functional landscape of coding and non-coding RNA editing.** *PLoS genetics*  
Zhang, R., Deng, P., Jacobson, D., Li, J. B.  
2017; 13 (2)
- **DDX6 Represses Aberrant Activation of Interferon-Stimulated Genes.** *Cell reports*  
Lumb, J. H., Li, Q. n., Popov, L. M., Ding, S. n., Keith, M. T., Merrill, B. D., Greenberg, H. B., Li, J. B., Carette, J. E.  
2017; 20 (4): 819–31
- **Landscape of X chromosome inactivation across human tissues.** *Nature*  
Tukiainen, T. n., Villani, A. C., Yen, A. n., Rivas, M. A., Marshall, J. L., Satija, R. n., Aguirre, M. n., Gauthier, L. n., Fleharty, M. n., Kirby, A. n., Cummings, B. B., Castel, S. E., Karczewski, et al  
2017; 550 (7675): 244–48
- **The evolution and adaptation of A-to-I RNA editing.** *PLoS genetics*  
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- **Regulation of gene expression and RNA editing in Drosophila adapting to divergent microclimates.** *Nature communications*  
Yablonovitch, A. L., Fu, J. n., Li, K. n., Mahato, S. n., Kang, L. n., Rashkovetsky, E. n., Korol, A. B., Tang, H. n., Michalak, P. n., Zelhof, A. C., Nevo, E. n., Li, J. B.  
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- **Rewriting the transcriptome: adenosine-to-inosine RNA editing by ADARs.** *Genome biology*  
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2017; 18 (1): 205
- **Enhancing GTEx by bridging the gaps between genotype, gene expression, and disease.** *Nature genetics*  
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- **The impact of rare variation on gene expression across tissues.** *Nature*  
Li, X. n., Kim, Y. n., Tsang, E. K., Davis, J. R., Damani, F. N., Chiang, C. n., Hess, G. T., Zappala, Z. n., Strober, B. J., Scott, A. J., Li, A. n., Ganna, A. n., Bassik, et al  
2017; 550 (7675): 239–43
- **Dynamic landscape and regulation of RNA editing in mammals.** *Nature*  
Tan, M. H., Li, Q. n., Shanmugam, R. n., Piskol, R. n., Kohler, J. n., Young, A. N., Liu, K. I., Zhang, R. n., Ramaswami, G. n., Ariyoshi, K. n., Gupte, A. n., Keegan, L. P., George, et al  
2017; 550 (7675): 249–54
- **Genetic effects on gene expression across human tissues.** *Nature*  
Battle, A. n., Brown, C. D., Engelhardt, B. E., Montgomery, S. B.  
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- **Adenosine-to-inosine RNA editing by ADAR1 is essential for normal murine erythropoiesis** *EXPERIMENTAL HEMATOLOGY*  
Liddicoat, B. J., Hartner, J. C., Piskol, R., Ramaswami, G., Chalk, A. M., Kingsley, P. D., Sankaran, V. G., Wall, M., Purton, L. E., Seeburg, P. H., Palis, J., Orkin, S. H., Lu, et al  
2016; 44 (10): 947-963
- **Identification of human RNA editing sites: A historical perspective.** *Methods (San Diego, Calif.)*  
Ramaswami, G., Li, J. B.  
2016; 107: 42-47
- **XenMine: A genomic interaction tool for the Xenopus community.** *Developmental biology*  
Reid, C. D., Karra, K., Chang, J., Piskol, R., Li, Q., Li, J. B., Cherry, J. M., Baker, J. C.  
2016
- **Editing of Cellular Self-RNAs by Adenosine Deaminase ADAR1 Suppresses Innate Immune Stress Responses** *JOURNAL OF BIOLOGICAL CHEMISTRY*  
George, C. X., Ramaswami, G., Li, J. B., Samuel, C. E.  
2016; 291 (12): 6158-6168

- **The Genomic Landscape and Clinical Relevance of A-to-I RNA Editing in Human Cancers** *CANCER CELL*  
Han, L., Diao, L., Yu, S., Xu, X., Li, J., Zhang, R., Yang, Y., Werner, H. M., Eterovic, A. K., Yuan, Y., Li, J., Nair, N., Minelli, et al  
2015; 28 (4)
- **RNA editing by ADAR1 prevents MDA5 sensing of endogenous dsRNA as nonself.** *Science*  
Liddicoat, B. J., Piskol, R., Chalk, A. M., Ramaswami, G., Higuchi, M., Hartner, J. C., Li, J. B., Seeburg, P. H., Walkley, C. R.  
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- **The landscape of genomic imprinting across diverse adult human tissues** *GENOME RESEARCH*  
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2015; 25 (7): 927-936
- **Effect of predicted protein-truncating genetic variants on the human transcriptome** *SCIENCE*  
Rivas, M. A., Pirinen, M., Conrad, D. F., Lek, M., Tsang, E. K., Karczewski, K. J., Maller, J. B., Kukurba, K. R., DeLuca, D. S., Fromer, M., Ferreira, P. G., Smith, K. S., Zhang, et al  
2015; 348 (6235): 666-669
- **Cis Regulatory Effects on A-to-I RNA Editing in Related Drosophila Species** *CELL REPORTS*  
Sapiro, A. L., Deng, P., Zhang, R., Li, J. B.  
2015; 11 (5): 697-703
- **Genetic conflict reflected in tissue-specific maps of genomic imprinting in human and mouse.** *Nature genetics*  
Babak, T., Deveale, B., Tsang, E. K., Zhou, Y., Li, X., Smith, K. S., Kukurba, K. R., Zhang, R., Li, J. B., van der Kooy, D., Montgomery, S. B., Fraser, H. B.  
2015; 47 (5): 544-549
- **The role of Abcb5 alleles in susceptibility to haloperidol-induced toxicity in mice and humans.** *PLoS medicine*  
Zheng, M., Zhang, H., Dill, D. L., Clark, J. D., Tu, S., Yablonovitch, A. L., Tan, M. H., Zhang, R., Rujescu, D., Wu, M., Tessarollo, L., Vieira, W., Gottesman, et al  
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- **Novel RNA Modifications in the Nervous System: Form and Function** *JOURNAL OF NEUROSCIENCE*  
Satterlee, J. S., Basanta-Sanchez, M., Blanco, S., Li, J. B., Meyer, K., Pollock, J., Sadri-Vakili, G., Rybak-Wolf, A.  
2014; 34 (46): 15170-15177
- **Novel RNA modifications in the nervous system: form and function.** *The Journal of neuroscience : the official journal of the Society for Neuroscience*  
Satterlee, J. S., Basanta-Sanchez, M., Blanco, S., Li, J. B., Meyer, K., Pollock, J., Sadri-Vakili, G., Rybak-Wolf, A.  
2014; 34 (46): 15170-7
- **Enhanced Specificity and Efficiency of the CRISPR/Cas9 System with Optimized sgRNA Parameters in Drosophila** *CELL REPORTS*  
Ren, X., Yang, Z., Xu, J., Sun, J., Mao, D., Hu, Y., Yang, S., Qiao, H., Wang, X., Hu, Q., Deng, P., Liu, L., Ji, et al  
2014; 9 (3): 1151-1162
- **Allelic Expression of Deleterious Protein-Coding Variants across Human Tissues** *PLOS GENETICS*  
Kukurba, K. R., Zhang, R., Li, X., Smith, K. S., Knowles, D. A., Tan, M. H., Piskol, R., Lek, M., Snyder, M., MacArthur, D. G., Li, J. B., Montgomery, S. B.  
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Bazak, L., Haviv, A., Barak, M., Jacob-Hirsch, J., Deng, P., Zhang, R., Isaacs, F. J., Rechavi, G., Li, J. B., Eisenberg, E., Levanon, E. Y.  
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Zhang, R., Li, X., Ramaswami, G., Smith, K. S., Turecki, G., Montgomery, S. B., Li, J. B.  
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- **RADAR: a rigorously annotated database of A-to-I RNA editing** *NUCLEIC ACIDS RESEARCH*  
Ramaswami, G., Li, J. B.

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- **Comparative RNA editing in autistic and neurotypical cerebella** *MOLECULAR PSYCHIATRY*  
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Ramaswami, G., Zhang, R., Piskol, R., Keegan, L. P., Deng, P., O'Connell, M. A., Li, J. B.  
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- **RNA sequencing reveals a diverse and dynamic repertoire of the *Xenopus tropicalis* transcriptome over development** *GENOME RESEARCH*  
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- **Lack of evidence for existence of noncanonical RNA editing** *NATURE BIOTECHNOLOGY*  
Piskol, R., Peng, Z., Wang, J., Li, J. B.  
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- **Versatile design and synthesis platform for visualizing genomes with Oligopaint FISH probes** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Beliveau, B. J., Joyce, E. F., Apostolopoulos, N., Yilmaz, F., Fonseka, C. Y., Mccole, R. B., Chang, Y., Li, J. B., Senaratne, T. N., Williams, B. R., Rouillard, J., Wu, C.  
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Bass, B., Hundley, H., Li, J. B., Peng, Z., Pickrell, J., Xiao, X. G., Yang, L.  
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- **Activity-Dependent A-to-I RNA Editing in Rat Cortical Neurons** *GENETICS*  
Sanjana, N. E., Levanon, E. Y., Hueske, E. A., Ambrose, J. M., Li, J. B.  
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- **Accurate identification of human Alu and non-Alu RNA editing sites** *NATURE METHODS*  
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Lin, W., Piskol, R., Tan, M. H., Li, J. B.  
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- **Scalable gene synthesis by selective amplification of DNA pools from high-fidelity microchips** *NATURE BIOTECHNOLOGY*  
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Eisenberg, E., Li, J. B., Levanon, E. Y.

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Li, J. B., Gao, Y., Aach, J., Zhang, K., Kryukov, G. V., Xie, B., Ahlford, A., Yoon, J., Rosenbaum, A. M., Zaranek, A. W., LeProust, E., Sunyaev, S. R., Church, et al  
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