

Curriculum Vitae
Alexis C. Komor

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EDUCATION

June 2014 California Institute of Technology
Ph.D. in Chemistry; Cumulative GPA 4.00

December 2008 University of California, Berkeley
B.S. in Chemistry and Mathematics Minor; Cumulative GPA 3.98

RESEARCH INTERESTS

Research in the Komor lab is encompassed by the fields of genome editing, DNA repair, and functional genomics. By illuminating the molecular details involved in DNA damage and repair we aim to uncover genome editing mechanisms, as well as expand our knowledge of how specific DNA mutations drive various disease phenotypes. Through a deeper understanding of how DNA damage is processed within the cell, we endeavor to develop new methods for controlling genome editing outcomes, and identify new types of DNA damage that can be leveraged for genome editing applications. As we develop more specific and efficient genome editing technologies, we will use them to functionally interrogate disease-associated point mutations.

AWARDS

2022 C&EN News Talented 12
2022 Undergraduate Research Hub Outstanding Mentor Award
2021 Cottrell Scholar Award
2021 NSF CAREER Award
2020 Endpoints News 20 Under 40 in Biopharma
2020 Fortune Magazine 40 Under 40 in Healthcare Awardee
2020 Rosalind Franklin Medal Award Winner
2019 Scialog Fellow
2017 International Society for Transgenic Technologies Young Investigator
2015-2017 National Institute of Health Ruth L. Kirchstein National Research Service Award Postdoctoral Fellowship
2014 Herbert Newby McCoy Award in Chemistry
2010-2013 National Science Foundation Graduate Research Fellowship
2009-2010 Caltech Institute Fellowship
2009 Graduated with Highest Academic Honors from UC Berkeley
2009 Erich O. and Elly Saegerbarth Prize in Chemistry from UC Berkeley
2006-2009 Bruce Howard Memorial Scholarship

TRAINING

2014-2017 Postdoctoral Scholar with Prof. David R. Liu
Project: Engineering of Cas9 fusion enzymes for sequence-specific DNA editing technology

2009-2014 Graduate Researcher with Prof. Jacqueline K. Barton
Project: Development of Metalloinsertors with improved cell-selective anticancer activity

2006-2009 Undergraduate Researcher with Prof. Christopher J. Chang

Project: Design and synthesis of first-row transition metal catalysts for dioxygen activation and group transfer

POSITIONS

2017-present Assistant Professor of Chemistry and Biochemistry, UCSD

TEACHING EXPERIENCE

2018-present Chemistry 6B: Second quarter of a three-quarter sequence intended for science and engineering majors. Topics include: covalent bonding, gases, liquids, and solids, colligative properties, physical and chemical equilibria, acids and bases, solubility.
 2018-present Chemistry 116/216: Special Topics in Chemical Biology.
 2019-present Chemistry 115/215: Genome, Epigenome, and Transcriptome Editing.

MENTORING EXPERIENCE

Graduate Students			
Name	Degree	Dates	Current Position
Mallory Evanoff (A53245378)	PhD in progress	12/2017-present	N/A
Brodie Ranzau (A53246848)	PhD in progress	12/2017-present	N/A
Elizabeth Porto (A53237454)	PhD in progress	12/2017-present	N/A
Sifeng Gu (A53213885)	PhD in progress	12/2017-present	N/A
Cameron Burnett (A53240953)	PhD in progress	12/2017-present	N/A
Kartik Rallapalli (A53243334)	PhD	12/2017-08/2022	Senior Scientist, Metagenomi
Carlos Vasquez (A10141507)	PhD in progress	12/2018-present	N/A
Quinn Cowan (A53229284)	PhD in progress	12/2018-present	N/A
Sam Mawson (A59012749)	PhD in progress	12/2021-present	N/A
Rachel Anderson (A59007507)	PhD in progress	12/2021-present	N/A
Zulfiqar Mohamedshah (A59007571)	PhD in progress	12/2021-present	N/A
Postdoctoral Fellows			
Name		Dates	Current Position
P. Keolu Fox		10/2018-08/2019	Assistant Professor, UCSD
Zsolt Bodai		06/2018-05/2022	Senior Scientist, Molecular Assemblies

Mentor Trainings:

09/2021 HHMI Gilliam Culturally Aware Mentorship Training Program
 08/2020 and 08/2021 California Center for Inclusive Doctoral Education (C-CIDE) Workshop
 09/2020-09/20201 Center for the Improvement of Mentored Experiences in Research (CIMER), HHMI
 03/2020 Faculty Mentoring Training Program Jr. Faculty Training, UCSD

EXTERNAL SERVICE AND ACTIVITIES

2023 Co-Chair, "Precise Genome Editing: One Goal, Multiple Avenues" Session, 2023 ASGCT 26th Annual Meeting
 2022 Co-Organizer, 2022 PQG Conference: Emerging challenges and opportunities in gene editing
 2022 Ad Hoc Member, NIGMS Council
 2021 Panelist, Stifel Key Opinion Leaders Virtual Panel series
 2021 Panelist, Young Presidents' Organization of Los Angeles, "The Future of Life" event
 2021-present Ad Hoc Reviewer for NIH Developmental Biology (CHHD-C), Enabling Bioanalytical and Imaging Technologies (EBIT), and Synthetic and Biological Chemistry A (SBCA) Study Sections
 2021 Guest Speaker with Minnesota Public Radio News
 2020 Co-Organizer, Synthetic Biology Approaches to Improve Human and Environmental Health Virtual Symposium

2020	Panelist, First Fridays: The Future of Medicine, Los Angeles Natural History Museum
2019-present	Co-Organizer, International Conference on Base Editing
2018-present	Mentor for the Sloan Scholar Fellowship Program
2018-present	Mentor/ Workshop Host for BEWiSE (Better Education for Women in Science and Engineering)
2018-present	Co-Organizer, International Conference on CRISPR Technologies (2018 and 2021)
2018	Panelist, Physical Sciences and Mathematics session, California Forum for Diversity in Graduate Education
2018	Panelist, "Gene Editing" panel discussion, 2 nd Annual SABPA Frontiers in Therapeutics and Diagnostics Forum
2017-present	Manuscript reviewer for Nature, Nature Biotechnology, Nature Medicine, Science Advances, Journal of the American Chemical Society, Proceedings of the National Academy of Sciences, and Cell Research
2017-2019	Consultant for Beam Therapeutics
2017-present	Consultant and Scientific Advisory Board member for Pairwise Plants

FUNDED PROJECTS

DISC0-13808	01/01/2023-12/31/2025
California Institute of Regenerative Medicine (CIRM) Discovery Stage Research Project	
"Development of a stem-cell based approach to interpret global effects of genetic variants contributing to neurodevelopmental disease risk"	
Role: Multi-PI	
T32GM146648	07/01/2022-06/30/2027
Chemistry-Biology Interfaces Training Grant at UCSD	
Role: Multi-PI	
28385	01/01/2022-12/31/2022
Scialog Collaborative Award	
"Elucidating the polygenic origins of schizophrenia: Linking protein trafficking to synapse function"	
Role: PI	
27975	09/01/2021-08/31/2022
Cottrell Fellowship Award	
"Investigations of DNA Repair Genes' Involvement in Base Editing and Development of a hands-on undergraduate course on Genome Editing at UCSD"	
Role: PI	
27502	07/01/2021-06/31/2024
Cottrell Scholar Award	
"Harnessing Precision Genome Editing tools to Study DNA Repair Proteins in Live Cells"	
Role: PI	
2048207	02/01/2021-01/31/2026
NSF Faculty Early Career Development Program Award	
"CAREER: Investigating the DNA Repair Mechanisms of Non-Traditional Genome Editing Agents"	
Role: PI	
R35GM138317	09/01/2020-08/31/2025
Maximizing Investigators' Research Award	
"Development and Application of New Genome Editing Tools for the Functional Investigation of Genetic Variants of Uncertain Significance"	
Role: PI	

GBMF9162.12 03/14/2020-05/14/2021
Scialog Collaborative Award
“Understanding the Dark Side of the Genome”
Role: PI

R21 GM135736-01 09/20/2019-08/31/2021
Exploratory Research for Technology Development
“Development of New Genome Editing Agents Using RNA Modifying Enzymes”
Role: PI

Beam Therapeutics SRA 05/30/2019-05/29/2020
“Development of a system for the comprehensive identification of DNA repair proteins involved in genome editing outcomes”
Role: PI

15-172-45-IRG 12/22/2017-12/21/2018
American Cancer Society Institutional Research Grant
“A biochemical characterization of the contributions of nucleotide excision repair to cancer and aging”
Role: PI

F32 GM112366 4/1/2015-6/30/2017
Ruth L. Kirschstein National Research Service Award
“Development and validation of a precision genome editing platform”
Role: PI

PUBLICATIONS

Burnett, C. A.; Wong, A. T.; Vasquez, C. A.; McHugh, C. A.; Yeo, G. W.; **Komor, A. C.*** “Investigations of the Cell Cycle Dependence of Cytosine and Adenine Base Editors,” *Front. Genome Ed.* **2022**, *4*, 923718.

Bodai, Z.; Bishop, A. L.; Gantz, V. M.; **Komor, A. C.*** “Targeting Double Strand Break Indel Byproducts with Secondary Guide RNAs Improves Cas9 HDR-Mediated Genome Editing Efficiencies,” *Nat. Commun.* **2022**, *13*, 2351.

Bishop, A. L.; Lopez del Amo, V.; Okamoto, E.; Bodai, Z.; **Komor, A. C.**; Gantz, V. M. “Double-Tap Gene Drive: Iterative Genome Targeting Helps Overcome Resistance Alleles,” *Nat. Commun.* **2022**, *13*, 2595.

McDaniel, S.; **Komor, A. C.***; Goren, A.* “The Use of Base Editing Technology to Characterize Single Nucleotide Variants,” *Comput. Struct. Biotechnol. J.* **2022**, *20*, 1670-1680.

Rallapalli, K. L.; Ranzau, B. L.; Ganapathy, K. R.; Paesani, F.*; **Komor, A. C.*** “Combined Theoretical, Bioinformatic, and Biochemical Analyses of RNA Editing by Adenine Base Editors,” *CRISPR J.* **2022**, *5*, 294-310.

Weng, N.; Miller, M.; Pham, A. K.; **Komor, A. C.**; Broide, D. H. “Single base editing of rs12603332 on Chromosome 17q21 with a Cytosine Base Editor regulates ORMDL3 and ATF6a expression,” *Allergy* **2022**, *77*, 1139-1149.

Rees, H. A.; Minella, A. C.; Burnett, C. A.; **Komor, A. C.***; Gaudelli, N. M.* “CRISPR-derived Genome Editing Therapies: From Bench to Bedside,” *Mol. Ther.* **2021**, *29*, 1-15.

Gu, S.; Bodai, Z.; Cowan, Q. T.; **Komor, A. C.*** “Base Editors: Expanding the Types of DNA Damage Products Harnessed for Genome Editing,” *Gene and Genome Editing* **2021**, *1*, 100005.

Gaudelli, N. M.*; **Komor, A. C.*** “Celebrating Rosalind Franklin’s Centennial with a Nobel Win for Doudna and Charpentier,” *Mol. Ther.* **2020**, *28*, 2519-2520.

Vasquez, C. A.; Cowan, Q. T.; **Komor, A. C.*** “Base Editing in Human Cells to Produce Single Nucleotide Variant Clonal Cell Lines,” *Curr. Protoc. Mol. Biol.* **2020**, *133*, e129.

Porto, E. M.; **Komor, A. C.***; Slaymaker, I. M.; Yeo, G. W. “Base Editing: Advances and Therapeutic Opportunities,” *Nat. Rev. Drug Disc.* **2020**, *19*, 839.

Rallapalli, K. L.; **Komor, A. C.***; Paesani, F.* “Computer Simulations Explain Mutation-induced Effects on DNA Editing by Adenine Base Editors,” *Sci. Adv.* **2020**, *6*, eaaz2309.

Dorrestein, P. C. et al. “Global Effects of the Microbiome Include New Bile-acid Conjugations,” *Nature*, **2020**, *579*, 123-129.

Fox, K.; Rallapalli, K. L.; **Komor, A. C.*** “Rewriting Human History and Empowering Indigenous Communities with Genome Editing Tools,” *Genes*, **2020**, *11*, 88.

Evanoff, M.; **Komor, A. C.*** “Base Editors: Modular Tools for the Introduction of Point Mutations in Living Cells,” *Emerging Topics in Life Sciences*, **2019**, ETLS20190088.

Davies, K.; **Komor, A. C.**; Gaudelli, N.M. “The Beginning of Base Editing: An Interview with Alexis C. Komor and Nicole M. Gaudelli,” *The CRISPR Journal*, **2019**, *2*, 81-90.

Ranzau, B. L.; **Komor, A. C.*** “Genome, Epigenome, and Transcriptome Editing via Chemical Modification of Nucleobases in Living Cells,” *Biochemistry*, **2019**, *58*, 330-335.

Gaudelli, N. M.; **Komor, A. C.**; Rees, H. A.; Packer, M. S.; Badran, A. H.; Bryson, D. I.; Liu, D. R. “Programmable Base Editing of A•T to G•C in Genomic DNA without DNA Cleavage,” *Nature* **2017**, *551*, 464-471.

Komor, A. C.*; Badran, A. H.*; Liu, D. R.* “Editing the Genome Without Double-Stranded DNA Breaks,” *ACS Chem. Biol.* **2018**, *13*, 383-388.

Komor, A. C.; Zhao, K. T.; Packer, M. S.; Gaudelli, N. M.; Waterbury, A. L.; Koblan, L. W.; Badran, A. H.; Liu, D. R. “Improved Base Excision Repair Inhibition and Bacteriophage Mu Gam Protein Yields C:G-to-T:A Base Editors with Higher Efficiency and Product Purity,” *Sci. Adv.* **2017**, *3*, eaao4774.

Rees, H. A.; **Komor, A. C.**; Yeh, W. H.; Caetano-Lopes, J.; Warman, M.; Edge, A. S. B.; Liu, D. R. “Improving the DNA specificity and applicability of base editing through protein engineering and protein delivery,” *Nat. Commun.* **2017**, *8*, 15790.

Kim, Y. B.; **Komor, A. C.**; Levy, J. M.; Packer, M. S.; Zhao, K. T.; Liu, D. R. “Increasing the genome-targeting scope of base editing with engineered Cas9-cytidine deaminase fusions,” *Nat. Biotechnol.* **2017**, *35*, 371-376.

Komor, A. C.; Badran, A. H.; Liu, D. R. “CRISPR-based technologies for the manipulation of eukaryotic genomes,” *Cell* **2017**, *168*, 20-36.

Komor, A. C.; Kim, Y. B.; Packer, M. S.; Liu, D. R. "Programmable editing of a target base in genomic DNA without double-stranded DNA cleavage," *Nature* **2016**, *533*, 420-424.

Komor, A. C.; Barton, J. K. "An Unusual Ligand Coordination Gives Rise to a New Family of Rhodium Metalloinsertors with Improved Selectivity and Potency," *J. Am. Chem. Soc.* **2014**, *136*, 14160-14172.

Weidmann, A. G.; **Komor, A. C.;** Barton, J. K. "Targeted Therapy with Metal Complexes," *Comment. Inorg. Chem.* **2014**, *34*, 1-10.

Bailis, J. M.; Gordon, M. L.; Gurgel, J. L.; **Komor, A. C.;** Barton, J. K.; Kirsch, I. R. "An Inducible, Isogenic Cancer Cell Line System for Targeting the State of Mismatch Repair Deficiency," *PLOS ONE*, **2013**, *10*, e78726.

Weidmann, A. G.; **Komor, A. C.;** Barton, J. K. "Biological Effects of Simple Changes in Functionality on Rhodium Metalloinsertors," *Philos. Trans. R. Soc. A.*, **2013**, *371*, 20120117.

Komor, A. C.; Barton, J. K. "The Path for Metal Complexes to a DNA Target," *Chem. Commun.* **2013**, *49*, 3617-3630. (Cover Article)

Komor, A. C.; Schneider, C. J.; Weidmann, A. G.; Barton, J. K. "Cell-Selective Activity of Rhodium Metalloinsertors Correlates with Subcellular Localization," *J. Am. Chem. Soc.* **2012**, *134*, 19223-19233.

Ernst, R. J.; **Komor, A. C.;** Barton, J. K. "Selective Cytotoxicity of Rhodium Metalloinsertors in Mismatch Repair-Deficient Cells," *Biochemistry* **2011**, *50*, 10919-10928.

Soo, H. S.; **Komor, A. C.;** Iavarone, A. T.; Chang, C. J. "A Hydrogen-Bond Facilitated Cycle for Oxygen Reduction by an Acid- and Base-Compatible Iron Platform," *Inorg. Chem.* **2009**, *48*, 10024-10035.

*Indicates corresponding author

INVITED TALKS

"Understanding Human Genetic Variation with Precision Genome Editing Tools," *The 6th International Conference on Disability and Rehabilitation* **December 4, 2022**, Riyadh, Saudi Arabia.

"Development and Application of Precision Genome Editing Tools to Study Human Genetic Variants," *Wellcome Genome Campus Genetic Engineering of Mammalian Stem Cells Course* **November 3, 2022**, remote presentation.

"Understanding Human Genetic Variation with Precision Genome Editing Tools," *Caltech Organic Seminar Series* **October 12, 2022**, Pasadena, CA.

"Base Editing in Practice," *Lab Meetings Live: CRISPR methods, techniques & advice (BiteSize Bio virtual conference)* **September 21, 2022**, remote presentation.

"Understanding Human Genetic Variation with Precision Genome Editing Tools," *13th International Conference on Environmental Mutagens* **September 1, 2022**, Ottawa, Canada.

"Understanding Human Genetic Variation with Precision Genome Editing Tools," *Genome Writers Guild Conference 2022* **July 28, 2022**, remote presentation.

"Understanding Human Genetic Variation with Precision Genome Editing Tools," *University of California, Santa Barbara Molecular, Cellular, and Developmental Biology Departmental Seminar Series* **June 8, 2022**, Santa Barbara, CA.

“Understanding Human Genetic Variation with Precision Genome Editing Tools,” *University of California, Irvine Department of Pharmaceutical Sciences Seminar Series* **May 18, 2022**, Irvine, CA.

“Cellular Processing of Base Editor Intermediates,” *Keystone Symposia, Precision Genome Engineering* **April 28, 2022**, Keystone, CO.

“Understanding How Cells Process Base Editor Intermediates,” *3rd International Conference on Base Editing – Enzymes and Applications* **January 25, 2022**, Palm Springs, CA.

“Investigations of the Enzymatic and Cellular Mechanisms of Base Editors,” *Pacificchem 2021* **December 18, 2021**, remote presentation.

“Enhancing Genome Editing Precision Using Secondary gRNAs,” *Penn Center for Genome Integrity Seminar Series (University of Pennsylvania)* **December 6, 2021**, remote presentation.

“Genome Editing with Alternative DNA Damage Intermediates,” *Inserm Workshop CRISPR-Cas9: yet more breakthroughs and challenges* **October 20, 2021**, Bordeaux, France.

“Understanding the Impact of Genetic Variation on Human Health,” *Claremont Colleges Chemistry Seminar Series* **October 12, 2021**, remote presentation.

“Enabling Functional Genomics with DNA Base Editors,” *University of California, San Francisco Genomic Immunology Seminar Series* **September 27, 2021**, remote presentation.

“Investigating the Enzymatic and Cellular Mechanisms of Base Editing,” *Genome Engineering and Synthetic Biology Conference* **September 23, 2021**, remote presentation.

“Understanding Human Genetic Variation with Precision Genome Editing Tools,” *University of Michigan RNA, CRISPR, and Genome Editing Thematic Virtual Seminar Series* **September 21, 2021**, remote presentation.

“Investigations of the Cellular Mechanisms of Base Editing,” *American Chemical Society Fall 2021 Meeting* **August 22, 2021**, remote presentation.

“Investigating the Enzymatic and Cellular Mechanisms of Base Editing,” *Cold Spring Harbor Laboratory Meeting Genome Engineering: CRISPR Frontiers* **August 18, 2021**, remote presentation.

“Mechanistic Insights into Adenine Base Editors,” *Genome Writers Guild Conference 2021* **July 30, 2021**, remote presentation.

“Enabling the Functional Genomics Field with Base Editors,” *MIT Bioinformatics Seminar* **April 7, 2021**, remote presentation.

“Mechanistic Insights into Cytosine and Adenine Base Editors,” *ELRIG CRISPR in Drug Discovery* **March 24, 2021**, remote presentation.

“Understanding the Impact of Genetic Variation on Human Health,” *CaliBaja Webinars* **March 17, 2021**, remote presentation.

“Mechanistic Insights into Adenine Base Editors,” *2nd International Conference on Base Editing – Enzymes and Applications* **January 22, 2021**, remote presentation.

“Investigating the Enzymatic Mechanisms of Base Editing,” *The International CRISPR and Gene Editing Symposium* **September 23, 2020**, remote presentation; Keynote speaker.

“Investigating the Enzymatic and Cellular Mechanisms of Base Editing,” *University of Pennsylvania Chemistry-Biology Interfaces Summer Retreat* **July 24, 2020**, remote presentation.

“Investigating the Chemical and Cellular Mechanisms of Base Editing,” *World Congress on In Vitro Biology* **June 10, 2020**, remote presentation.

“Base Editing: Performing Chemistry on the Genome,” *Genome Editing: Sequencing and Innovation* Cell Press Webinars, **December 4, 2019**.

“Investigating the Chemical and Cellular Mechanisms of Base Editing,” *Frontiers in Genome Engineering* **November 25, 2019**, Kobe, Japan.

“Repurposing Viral Defense Enzymes for Genome Editing,” *The American Society for Virology 38th Annual Meeting Satellite Symposia* **July 20, 2019**, Minneapolis, MN.

“Engineering and Evolving Base Editors for the Chemical Modification of DNA Nucleobases,” *Synthetic Biology Gordon Research Conference* **July 15, 2019**, Waterville Valley, NH.

“Base Editing: Performing Chemistry on the Genome,” *DIA Global Annual Meeting* **June 25, 2019**, San Diego, CA.

“Functionally Characterizing Variant of Uncertain Significance Using Base Editors,” *7th Annual Coffey-Holden Prostate Cancer Academy Meeting* **June 22, 2019**, Los Angeles, CA.

“Expanding the Genome Editing Toolbox with Base Editors,” *Janelia Conference, Chemical Tools for Complex Biological Systems II* **May 1, 2019**, Ashburn, VA.

“Base Editing: Using Uracil and Inosine as Genome Editing Intermediates,” *UC Irvine Department of Biological Chemistry Lecture Series* **April 24, 2019**, Irvine, CA.

“Base Editing: Performing Chemistry on the Genome,” *Pathology Research Lecture Series, UCSD Department of Pathology* **April 8, 2019**, San Diego, CA.

“Expanding the Genome Editing Toolbox with Base Editors,” *Wellcome Genome Campus Advanced Courses: Genetic Engineering of Mammalian Stem Cells* **March 21, 2019**, Wellcome Genome Campus, Cambridge, UK.

“Using Uracil as a Genome Editing Intermediate,” *Keystone Symposia, Genome Engineering: From Mechanisms to Therapies* **February 20, 2019**, Victoria, British Columbia Canada.

“Beyond Double Stranded DNA Breaks: Using Uracil and Inosine as Genome Editing Intermediates,” *2nd International Conference on CRISPR Technologies* **December 10, 2018**, San Diego, CA.

“Base Editing: Performing Chemistry on the Genome,” *Genome and Transcriptome Engineering Conference* **October 15, 2018**, La Jolla, CA.

“Base Editing: Performing Chemistry on the Genome,” *California State University, Los Angeles Minority Opportunities in Research (MORE) Seminar Series* **September 28, 2018**, Los Angeles, CA.

“Base Editing: Performing Chemistry on the Genome,” *3rd Annual BNMC Translational Genomics and Epigenomics Symposium* **September 18, 2018**, Buffalo, NY; Keynote Talk.

“Programmable editing of a target base in genomic DNA without double-stranded DNA cleavage,” *Yale School of Medicine Rare Disease Seminar* **June 1, 2018**, New Haven, CT (remote presentation).

“Base Editing: Performing Chemistry on the Genome,” *21st Annual ASGCT Meeting* **May 15, 2018**, Chicago, IL.

“Base Editing Workshop,” *Max Planck Institute for Infection Biology* **April 2018**, Berlin, Germany.

“Base Editing: Performing Chemistry on the Genome,” *Innovative Genomics Institute* **April 2018**, Berkeley, CA.

“A New Approach to Genome Editing,” *Mass Spectrometry: Applications to the Clinical Lab 10th Annual Conference & Exhibit* **January 25, 2018**, Palm Springs, CA; Plenary Talk.

“A New Approach to Genome Editing,” *International Society of Transgenic Technologies Conference* **October 4, 2017**, Snowbird, CO; Young Investigator Awardee.

“A New Approach to Genome Editing,” *Genome Engineering 4.0* **May 2016**, Cambridge, MA.

PATENTS

“Nucleobase editors comprising nucleic acid programmable DNA binding proteins” Liu, D. R.; Komor, A. C.; Chen, L.; Rees, H. A. US Patent 11,268,082

“Nucleobase editors and uses thereof” Liu, D. R.; Komor, A. C.; Rees, H. A.; Kim, Y. US Patent 11,214,780

“Cas variants for gene editing” Liu, D. R.; Komor, A. C. US Patent 11,124,782

“Fusions of Cas9 domains and nucleic acid-editing domains” Liu, D. R.; Komor, A. C. US Patent 11,053,481

“Methods for nucleic acid editing” Liu, D. R.; Komor, A. C. US Patent 9,840,699

“Methods for correcting presenilin point mutations” Liu, D. R.; Komor, A. C. US Patent 9,068,179

“Metalloinsertor complexes targeted to DNA mismatches” Barton, J. K.; Komor, A.C.; Schneider, C. J.; Weidmann, A. G.; Ernst, R. J. US Patent 9,051,345