

# **CURRICULUM VITAE**

09/10/23

## **DR. TATIANA G. KUTATELADZE**

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[web page](#)

### **EDUCATION**

1988 Ph.D. Chemistry, Moscow State University, Moscow, Russia  
1985 B.S./M.S. Chemistry with highest honors, Moscow State University, Moscow, Russia

### **PROFESSIONAL EXPERIENCE**

2013-present Professor, Department of Pharmacology, University of Colorado Anschutz Medical Campus (UC AMC)  
2011-present Faculty member, Neuroscience Program  
2009-2013 Associate Professor with tenure, Department of Pharmacology  
2005-present Faculty member, Molecular Biology Program  
2005-present Faculty member, Medical Scientist Training Program  
2004-present Member, University of Colorado Cancer Center  
2004-present Faculty member, Biomedical Sciences Program  
2003-2009 Assistant Professor, Department of Pharmacology  
2000-present Faculty member, Program in Structural Biology and Biochemistry  
2000-2003 Instructor, Department of Pharmacology, University of Colorado Health Sciences Center (UCHSC)  
1996-2000 Research associate, Department of Pharmacology, UCHSC (Prof. Michael Overduin)  
1994-1995 Postdoctoral fellow, Department of Biochemistry, University of Wisconsin (Prof. Ronald Raines)  
1990-1992 Postdoctoral fellow, Department of Chemistry, University of Denver (Prof. John Kice),  
1988-1990 Research Scientist, Department of Chemistry, Moscow State University

### **RESEARCH INTERESTS**

- epigenetics, mechanisms of gene transcription, posttranslational histone modifications, soft inheritance, epigenetic misregulations in human diseases
- structural biology and biochemistry; NMR and crystal structures of proteins implicated in cancer, neurological disorders and ageing
- structure-based drug design

### **HONORS/AWARDS**

2019, 2015 Excellence in Research Award, Department of Pharmacology, UC AMC  
2011-2013 NARSAD/Brain and Behavior Research Foundation, Independent Investigator  
2011 Excellence in Research Award, Department of Pharmacology, UC AMC  
2008 American Heart Association Research Administration Recognition Award  
2005-2008 NARSAD/Brain and Behavior Research Foundation, Young Investigator  
2005-2006 American Cancer Society Research Scholar

2005 Excellence in Research Award, Department of Pharmacology, UCHSC  
2005 National Scientist Development Award, American Heart Association (declined)

### **NATIONAL AND INTERNATIONAL REVIEW PANELS**

2023 NIH ZRG1 MBBC-V(30) review panel, chair  
2022 NIH ZRG1 R24 review panel, member  
2022 NIH ZRG1 BCMB-V(30) review panel, chair  
2022 MRC, UK, reviewer  
2022 NIH RM1 BTDD Centers review panel, member  
2022 NIH ZRG1 BCMB-V(02)M review panel, chair  
2022 Canada Foundation for Innovation (Str Biol), committee member  
2021 NIH ZRG1 BCMB-V(30)I review panel, member and associate chair  
2021 NIH MSFC study section, member  
2021 NIH NIA (P01) review panel, member  
2021 NIH ZCA1 SRB-K (P01) review panel, member  
2021 NIH ZRG1 GGG-B (50) review panel, member  
2021 Wellcome Trust, UK, reviewer  
2020 NIH MIRA R35 ZRG1 CB-V review panel, member  
2020 NIH ZRG1 GGG-B review panel, member  
2020 NIH Cell Biol 4DN (U01) review panel, member  
2020 NIH NCI ZCA1 RPRB-L (P01) review panel, member  
2020 Genome Canada, Phase V funding for Structural Genomics Consortium, committee member  
2020 Canada Foundation for Innovation (Str Biol), committee member  
2020 NSERC, Research Council of Canada, reviewer  
2019 NIH EBIT study section, member  
2019 NIH ZRG1 BST-T (P41) review panel, member  
2019 Fondazione Telethon Research Program, Italy, reviewer  
2019 BBS Research Council, UK, reviewer  
2018 NIH MIRA EI R35 review panel, member  
2018 NIH ESI MIRA R35 review panel, member  
2018 NSERC, Research Council of Canada, reviewer  
2018-2019 MRC, UK, reviewer  
2018 French National Research Agency, reviewer  
2017 NIH MIRA EI R35 review panel, member  
2017 NSF MCB, Molecular Biophysics, reviewer  
2017 NWO, Netherlands Organization for Scientific Research, reviewer  
2016-2018 Wellcome Trust, UK, reviewer  
2016-2017 BBS Research Council, UK, reviewer  
2016 Cancer Research UK, reviewer  
2015 NIH NCI Biochem & Mol Bio site visit review panel, member  
2015 NSF, Genetic Mechanisms, reviewer  
2015 MRC, UK, reviewer  
2015 Berlin Institute of Health, TRG, Germany, reviewer  
2015 French National Research Agency, reviewer  
2015 NSF MCB, Molecular Biophysics, reviewer  
2014 Human Frontier Science Program, France, reviewer  
2013-2014 Wellcome Trust, UK, reviewer  
2013-2014 Fondazione Telethon Research Program, Italy, reviewer  
2013 NSERC, Research Council of Canada, reviewer  
2013 NWO, Netherlands Organization for Scientific Research, reviewer  
2012 MRC, UK, reviewer  
2011-2017 NIH MSFC study section, permanent member

2011	BBS Research Council, UK, reviewer
2010	NIH ZRG1 BCMB (02) M study section, member
2010	NIH ZRG1 BCMB-B study section, member
2010	NIH ZGM1 CBB-3 (MP) study section, member
2010	NSF CHE study section, reviewer
2010	Wellcome Trust, UK, reviewer
2009	NIH ZRG1 BCMB-U (P01) review panel, member
2009	NSF CHE study section, reviewer
2009	NSF MCB study section, reviewer
2009	ACS DMC study section, member
2008	NSF Cellular Systems, reviewer
2007	NSF Cellular Systems III study section, member
2007	NIH DMP study section, member
2007	ACS GMC study section, reviewer
2006	Wellcome Trust, UK, reviewer
2005-2008	AHA BCMB1 study section, member
2005-2006	NSF STCR study section, member
2005	NIH BBM study section, member
2004	NIH ZRG1 BPC-K (P01) review panel, member
2003	PRF, reviewer

## **GRANTS AND FELLOWSHIPS**

### ACTIVE

1. R01 GM125195 (Kutateladze) 09/01/17-06/30/24  
NIH/NIGMS  
Interdomain crosstalk in MORC3.
2. R01 GM135671 (Kutateladze) 01/01/20-11/30/24  
NIH/NIGMS  
Epigenetic mechanisms for regulation of p300.
3. R01 HL151334 (Kutateladze) 05/15/20-04/30/24  
NIH/NHLBI  
The role of JADE in HBO complexes.
4. R01 CA252707 (Kutateladze) 07/01/20-06/30/26  
NIH/NCI  
Molecular analysis of ASH1L.
5. R01 AG067664 (Kutateladze) 05/01/21-02/28/27  
NIH/NIA  
Targeting acetylated histone H4 by MLL4.
6. SignalRx (Durden) 12/01/17-present  
Gift to the Kutateladze lab  
Structural analysis of dual/triple activity PI3K-BRD4 inhibitors for the orthogonal inhibition of MYC.
7. R01 CA215651 (PI, Durden; Kutateladze, subcontract) 12/27/17-06/31/24  
Dual PI3K/BRD4 inhibitory chemotype for maximum inhibition of Myc and cancer.

PAST

1. CFReT Fellowship (PI, Vann; mentor, Kutateladze) 2018-2022
2. NIH/NIA R56 AG067664 (Kutateladze) 2020-2021
3. NIH K99/R00 CA241301 (PI, Zhang; mentor, Kutateladze) 2019-2024
4. NIH/NIGMS R01 GM100907 (Kutateladze) 2015-2020
5. NIH/NIGMS R01 GM106416 (Kutateladze) 2015-2020
6. NIH/NIGMS R01 GM106416-02S1 (Kutateladze), Supplement to promote diversity 2015-2020
7. AHA Postdoctoral Fellowship 18POST33960498 (PI, Tencer; Mentor, Kutateladze) 2018-2020
8. 5610 iNEXT Structural Biology program of the EU (Kutateladze) 2018-2019
9. NIH/NIGMS R01 GM101664 (Kutateladze) 2013-2018
10. NIH/NIGMS 3R01 GM101664-02S1 (Kutateladze), Collaborative supplement (with B. Garcia) 2014-2018
11. NIH NRSA Predoctoral Fellowship F31CA189487 (PI, Gatchalian; Mentor, Kutateladze) 2014-2017, was terminated on 10/19/16
12. AHA Postdoctoral Fellowship 25A4250 (PI, Andrews; Mentor, Kutateladze) 2016-2018, was terminated on 11/18/16
13. NIH/NIGMS R01 GM100907-S1 (Kutateladze), Equipment supplement 2015-2016
14. NIH/NIGMS R01 GM096863 (Kutateladze) 2011-2015
15. NIH/NIGMS 3R01 GM096863-S1 (Kutateladze), Collaborative supplement (with K. Luger) 2012-2015
16. AHA Postdoctoral Fellowship (PI, Klein; Mentor, Kutateladze) 2013-2015
17. NARSAD Independent Investigator Award (Kutateladze) 2011-2013
18. NIH/NCI R01 CA113472 (Kutateladze) 2006-2012
19. NIH NRSA Postdoctoral Fellowship F32 HL096399 (PI, Musselman; Mentor, Kutateladze) 2009-2012
20. NIH/NIGMS R01 GM071424 (Kutateladze) 2006-2011
21. AHA 10GRNT2600175 (Kutateladze) 2010-2011
22. Cancer League of Colorado (Kutateladze) 2009-2010
23. AHA Postdoctoral Fellowship 0920097G (PI, Musselman; Mentor, Kutateladze) 2009-2011, was terminated on 07/31/09
24. NIH NRSA Postdoctoral Fellowship F32 GM083462 (PI, Champagne; Mentor, Kutateladze) 2008-2010
25. NIH NRSA Predoctoral Fellowship F31 GM081893 (PI, Pena; Mentor, Kutateladze) 2007-2009
26. Cancer League of Colorado (Kutateladze) 2008-2009
27. NARSAD Young Investigator Award (Kutateladze) 2005-2008
28. American Cancer Society Postdoctoral Fellowship PF0804901-GMC (PI, Champagne; Mentor, Kutateladze) 2008-2010, was terminated on 06/30/08
29. UC Cancer Center SPORE award (Kutateladze) 2006-2007
30. American Cancer Society RSG GMC-107816 (Kutateladze) 2005-2009, was terminated on 08/31/06
31. American Heart Association 0555561Z (Kutateladze) 2005-2008, was terminated on 08/31/06
32. NIH/NCI R01 CA095144 (Kutateladze) 2004-2006
33. NIH/NCI R01 CA085716 (Kutateladze) 2004-2006
34. UC Cancer Center (Kutateladze) 2005-2006
35. Cancer League of Colorado (Kutateladze) 2004-2005
36. American Cancer Society UCHSC (Kutateladze) 2001-2002
37. American Cancer Society UCHSC Fellowship (Kutateladze) 1997-1998
38. Russian Academy of Science grant in Fine Organic Synthesis (Kutateladze) 1990-1992
39. Young Investigator Award, MOST, Moscow (Kutateladze) 1989-1991

**PLENARY, INVITED AND CONTRIBUTED CONFERENCE TALKS**

2024 FASEB SRC conference 'Reversible acetylation in health and disease', Rome, Italy

- 2024 FASEB SRC conference 'Biological Methylation: Fundamental mechanisms in human health and disease', Porto, Portugal
- 2024 TSRC conference 'Epigenetic mechanisms', Telluride, CO (organizer)
- 2023 Tsuruoka conference 'Role of epigenetic factors in cancer', Tsuruoka, Japan
- 2023 EpiCypher 2023 conference 'Biological and Clinical Frontiers in Epigenetics', Cancun, Mexico
- 2023 Fox Chase Cancer Center Symposium, Philadelphia, PA
- 2023 Gordon Research Conference 'Histone and DNA modifications' (founder and organizer)
- 2023 FEBS Congress, 'Regulation of gene expression, chromatin architecture and their failures in disease' symposium, Moscow (keynote speaker)
- 2022 FASEB SRC conference 'Reversible acetylation in health and disease HDAC', Puerto Rico
- 2022 TSRC conference 'Epigenetic mechanisms', Telluride, CO (organizer)
- 2022 FASEB SRC conference 'Biological Methylation', Catania, Italy (+ a chair of a session)
- 2022 Tsuruoka conference 'Role of epigenetic regulators in oncogenic self-renewal', Yamagata, Japan
- 2022 Forbeck Forum, 'Dynamic histone methylation and chromatin organization in cancer', Nashville, TN (+ a chair of a session)
- 2021 Pacificchem-2021 Congress, symposium 'Epigenetic Mechanisms and Advances in Chromatin Biology', Honolulu, HI (organizer)
- 2021 UCSF/QBI symposium 'Frontiers in Epigenetics and Chromatin: from Fundamentals to the Clinic', San Francisco, CA
- 2021 EpiCypher 2021 conference 'Biological and Clinical Frontiers in Epigenetics', Clearwater Beach, FL
- 2021 EB ASIP meeting 'Epigenetic and Cancer', Indianapolis, IN
- 2021 Gordon Research Conference 'Histone and DNA modifications' (founder and organizer) (cancelled)
- 2021 FASEB SRC conference 'Reversible acetylation in health and disease HDAC', Puerto Rico (cancelled)
- 2021 TSRC conference 'Epigenetic mechanisms', Telluride, CO (organizer) (cancelled)
- 2021 Forbeck Forum, 'Dynamic histone methylation and chromatin organization in cancer', Nashville, TN (cancelled)
- 2021 San Diego Chromatin Club, Sanford Burnham Prebys Medical Discovery Institute, San Diego, CA
- 2021 Nature Cancer – SQE cancer epigenetic meeting, Chicago, IL (cancelled)
- 2020 EpiCypher 2020 conference 'Biological and Clinical Frontiers in Epigenetics', Playa del Carmen, Mexico (cancelled)
- 2020 CSHL meeting 'Epigenetics and Chromatin', Cold Spring Harbor, NY (+ a chair of a session)
- 2020 FASEB SRC conference 'Biological Methylation', Sicily, Italy (+ a chair of a session) (cancelled)
- 2020 EB ASIP meeting 'Epigenetic and Cancer', San Diego, CA (cancelled)
- 2020 Nature Cancer – SQE cancer epigenetic meeting, Chicago, IL (cancelled)
- 2020 Pacificchem-2020 Congress, symposium 'Epigenetic Mechanisms and Advances in Chromatin Biology', Honolulu, HI (organizer) (cancelled)
- 2019 ASBMB symposium "The interplay of epigenetic regulation and genome integrity", Suzhou, China
- 2019 Precision Oncology Experimental Therapeutics, Calgary, AB, Canada
- 2019 TSRC conference 'Epigenetic mechanisms', Telluride, CO (founder and organizer)
- 2019 Van Andel Epigenomics symposium, Grand Rapids, MI
- 2018 FASEB SRC conference 'Biological Methylation', Florence, Italy (+ a chair of a session)
- 2018 TSRC conference 'Chromatin structure and dynamics', Telluride, CO
- 2018 ASBMB meeting, San Diego, CA
- 2017 4<sup>th</sup> Canadian Conference on Epigenetics 'Mechanisms of Disease', Whistler, BC, Canada
- 2017 FASEB SRC conference 'Reversible acetylation on health and disease HDAC', Big Sky, MT
- 2017 Gordon Research Conference 'Cancer Genetics and Epigenetics', Lucca, Italy
- 2017 Protein-DNA Interaction: from Biophysics to Cancer Biology Conference, Houston, TX
- 2016 FASEB-2016 conference 'Biological Methylation: Fundamental mechanisms', Lisbon, Portugal (+ a chair of a session)
- 2016 ASBMB Symposium 'Transcriptional regulation by chromatin and RNA Polymerase II', Snowbird, UT (+ a chair of a session)

- 2016 Cambridge Healthtech Institute conference 'Targeting Epigenetic Readers and Chromatin Remodelers', Boston, MA (+ a chair of a session)
- 2016 Colorado Chromatin meeting, Fort Collins, CO
- 2016 TSRC conference 'Chromatin structure and dynamics', Telluride, CO
- 2015 GRASP Biomolecular NMR, Lawrence, KS
- 2015 11<sup>th</sup> Symposium of the Zurich Center for Structural Biology, "New Trends in Structural Biology", UZurich-ETH, Zurich, Switzerland
- 2015 Pacificchem-2015 Congress, symposium 'Frontiers in Chromatin Biology and Chemical Epigenetics-Epigenomics', Honolulu, HI
- 2015 Cambridge Healthtech Institute conference 'Epigenetic Inhibitor Discovery', San Diego, CA
- 2014 FASEB-2014 conference 'Biological Methylation: regulation of chromatin, epigenetics and disease', Nassau, Bahamas (organizer)
- 2014 ASBMB Symposium 'Transcriptional regulation by chromatin and RNA Polymerase II', Snowbird, UT
- 2013 Cambridge Healthtech Institute conference 'Targeting Epigenetic Readers', Boston, MA
- 2012 ASBMB Symposium 'Transcriptional regulation by chromatin and RNA Polymerase II', Snowbird, UT
- 2012 FASEB conference 'Biological Methylation', Carefree, AZ (+ a chair of a session)
- 2012 TSRC conference 'Chromatin structure and dynamics', Telluride, CO
- 2012 IBANGS meeting, 'Epigenetic inheritance: implications for complex traits', Boulder, CO
- 2012 St. Jude Symposium 'Biomolecular Structure, Dynamics and Function', Memphis, TN
- 2011 FEBS conference 'Protein Modules and Networks in Health and Disease', Seefeld, Austria
- 2011 Keystone Symposia 'Frontiers of NMR in Biology', Big Sky, MT
- 2011 Keystone Symposia 'Histone code: Fact or Fiction?' Utah in Midway, UT (+ a chair of a session)
- 2010 Pacificchem-2010 Congress, symposium 'Biomolecular Structure and Dynamics: Recent Advances in NMR', Honolulu, HI
- 2010 FASEB conference 'Biological Methylation: from DNA to histones and beyond', Carefree, AZ
- 2010 Biophysical Society meeting, symposium 'Dynamics in Epigenetic Gene Control', San Francisco, CA
- 2009 ASBMB meeting, symposium 'Chromatin Recognition and Assembly', New Orleans, LA
- 2008 ASBMB meeting, symposium 'Chromatin structure in gene activation', San Diego, CA
- 2007 Keystone Symposia 'Frontiers of NMR in molecular biology X', Snowbird, UT
- 2007 ASBMB meeting, symposium 'Chromatin structure and remodeling', Washington, DC
- 2007 20<sup>th</sup> MolBio mini-symposium 'Epigenetics: beyond the sequence', Aurora, CO
- 2006 231<sup>th</sup> ACS meeting, symposium 'Interactions of Peptides and Proteins with Membrane Surfaces', Atlanta, GA
- 2005 Pacificchem-2005 Congress, symposium 'Protein interactions with membranes and supramolecular assemblies', Honolulu, HI
- 2005 Pacificchem-2005 Congress, symposium 'Frontiers in NMR of Biological Macromolecules', Honolulu, HI
- 2005 229<sup>th</sup> ACS meeting, symposium 'Druggable Targets for Functional Lipidomics', San Diego, CA

### **SEMINARS**

- 2024 Fox Chase Cancer Center, Philadelphia, PA
- 2024 University of Minnesota, Minneapolis, MN
- 2023 NIH, NIDDK, Bethesda, MD
- 2023 University of Michigan, the Robert G. Greenberg lectureship, Ann Arbor, MI
- 2023 RIKEN Center for Biosystems Dynamics Research, Yokohama, Japan
- 2023 Institute for Quantum Life Science, Chiba, Japan
- 2023 Ludwig-Maximilians-Universität München, Munich, Germany
- 2023 Institute of Functional Epigenetics, Helmholtz Zentrum München, Munich, Germany
- 2023 International Institute of Mol Cell Biol and Institute of Biochem and Biophysics PAS, Warsaw, Poland

2023 University of Tokyo, ERATO International Seminar Series, Tokyo, Japan  
2023 University of Pennsylvania, Philadelphia, PA  
2022 Wake Forest University, Winston-Salem, NC  
2022 University of North Carolina, Chapel Hill, NC  
2022 Northwestern University, Chicago, IL  
2022 University of Arizona, Tucson, AZ  
2022 Mount Sinai School of Medicine, New York, NY  
2021 Case Western Reserve University, Student-Invited Seminar Series, Cleveland, OH  
2021 St. Jude Children's research Hospital, Memphis, TN  
2020 Utrecht University, Utrecht, the Netherlands (cancelled)  
2020 University of Southern California, Los Angeles, CA (cancelled)  
2020 University of Illinois-Chicago, Chicago, IL (cancelled)  
2020 University of Arizona, Tucson, AZ (cancelled)  
2019 Tsinghua University, Frontiers in Biological Sciences Lecture Series, Beijing, China  
2019 Peking University, Beijing, China  
2019 University of California Santa Cruz, Santa Cruz, CA  
2019 Salk Institute for Biological Studies, La Jolla, CA  
2019 University of Texas Medical Branch, Galveston, TX  
2019 University of Alberta, Edmonton, Canada  
2019 University of Maryland Baltimore County, Baltimore, MD  
2019 University of Texas Southwestern Medical Center, Dallas, TX  
2019 University of Rochester Medical Center, Rochester, NY  
2019 University at Buffalo Medical School, Buffalo, NY  
2019 University of Colorado Cancer Center, MCO program, Boulder, CO  
2018 Massachusetts General Hospital, Boston, MA  
2018 Boston University, Boston, MA  
2018 The Rockefeller University, NYC, NY  
2017 University of British Columbia, Vancouver, Canada  
2017 NIH, NIDDK, Bethesda, MD  
2017 UT MD Anderson Cancer Center, Hogg Distinguished Seminar Series, Houston, TX  
2017 Leibniz Institute of Molecular Pharmacology, Berlin, Germany  
2017 University of Chicago, Chicago, IL  
2017 University of Geneva, NCCR Lecture Series Speaker, Geneva, Switzerland  
2017 The Swiss Federal Institute of Technology, Lausanne, Switzerland  
2017 University of Delaware, Newark, DE  
2017 University of Pennsylvania, Dr. G.W. Raiziss Seminar Series, Philadelphia, PA  
2017 Smurfit Institute of Genetics, Trinity College Dublin, Dublin, Ireland  
2017 University of Colorado, Department of Anesthesiology, Aurora, CO  
2016 Harvard Medical School, Boston, MA  
2016 University of California San Francisco, San Francisco, CA  
2016 NIH, NCI, Frederick, MD  
2016 University of Michigan, Ann Arbor, MI  
2016 University of Osaka, Osaka, Japan  
2016 Osaka Medical Center for Cancer and Cardiovascular Diseases, Osaka, Japan  
2016 University of Maryland, College Park, MD  
2016 Hematology, UC AMC, Aurora, CO  
2016 Laval University Cancer Research Center, Quebec City, Canada  
2016 Molecular Biology Retreat, UC AMC, Winter Park, CO  
2015 Albert Einstein College of Medicine, New York, NY  
2015 Friedrich Miescher Institute for Biomedical Research/University of Basel, Basel, Switzerland  
2015 University of Colorado Cancer Center, Aurora, CO  
2015 University of Chicago, Chicago, IL  
2015 Johns Hopkins University School of Medicine, Baltimore, MD

2015 University of California San Diego, San Diego, CA  
2015 National Jewish Health, Distinguished Seminar Speaker Series, Denver, CO  
2014 University of Virginia, Charlottesville, VA  
2014 IECB, Institut Européen de Chimie et Biologie and University of Bordeaux, Bordeaux, France  
2014 University of Colorado-Denver, Denver, CO  
2014 University of Missouri, Columbia, MO  
2014 NIH, NCI, Bethesda, MD  
2014 Mount Sinai School of Medicine, New York, NY  
2014 University of North Carolina, Lineberger Cancer Center, Chapel Hill, NC  
2014 Ohio State University, Columbus, OH  
2014 University of Colorado Cancer Center, Aurora, CO  
2013 Sanford-Burnham Medical Research Institute, Orlando, FL  
2013 Molecular Biology Retreat, UC AMC, Winter Park, CO  
2013 MD Anderson, Center for Cancer Epigenetics, Distinguished Lecture Series, Houston, TX  
2013 Cleveland Clinic, Lerner Research Institute, Cleveland, OH  
2013 University of Florida, Gainesville, FL  
2012 University of Illinois-Chicago, Chicago, IL  
2012 University of Montana, Missoula, MT  
2012 University of Colorado Cancer Center Retreat, Fort Collins, CO  
2012 Computational and Bioinformatics Program, UC AMC, Aurora, CO  
2012 NIH, Research Triangle Park, NC  
2012 Texas A&M University, College Station, TX  
2011 University of Colorado Cancer Center, Aurora, CO  
2011 Molecular Biology Retreat, UC AMC, Winter Park, CO  
2011 Neuroscience Program, UC AMC, Aurora, CO  
2011 University of Denver, Denver, CO  
2010 Department of Pharmacology, UC AMC, Aurora, CO  
2010 Program in Structural Biology and Biochemistry, UC AMC, Aurora, CO  
2009 University of Colorado Cancer Center, Aurora, CO  
2009 Molecular Biology Retreat, UC AMC, Winter Park, CO  
2008 University of Calgary, Calgary, Alberta, Canada  
2008 Department of Pharmacology, UC AMC, Aurora, CO  
2008 Molecular Biology Retreat, UC AMC, Winter Park, CO  
2008 Pharmacology Retreat, UC AMC, Copper Mountains, CO  
2008 Biomolecular Structure Program, UC AMC, Aurora, CO  
2008 University of Pennsylvania, Philadelphia, PA  
2007 Emory University, Atlanta, GA  
2007 Oregon Health & Science University, Portland, OR  
2007 University of Colorado Cancer Center, Aurora, CO  
2006 University of Colorado-Boulder, Boulder, CO  
2006 Molecular Biology Retreat, UCHSC, Winter Park, CO  
2006 Biomolecular Structure Program, UCHSC, Aurora, CO  
2005 Medical Scientist Training Program, UCHSC, Aurora, CO  
2005 Molecular Biology Retreat, UCHSC, Estes Park, CO  
2005 Molecular Biology Program, UCHSC, Aurora, CO  
2005 University of Denver, Denver, CO  
2005 University of Colorado Cancer Center, Aurora, CO  
2004 University of Utah, Salt Lake City, UT  
2003 NIH, NIDCR, Bethesda, MD  
2003 University of California-Irvine, Irvine, CA  
2003 Purdue University, West Lafayette, IN  
2003 University of Illinois-Chicago, Chicago, IL  
2003 Colorado State University, Fort Collins, CO



- 2003 University of Massachusetts Medical School, Worcester, MA  
 2003 University of Colorado Cancer Center, Denver, CO  
 2003 Department of Pharmacology, UCHSC, Denver, CO

### **CONFERENCE ORGANIZING COMMITTEES**

- 2024 TSRC conference 'Epigenetic mechanisms', Telluride, CO (organizer)  
 2023 Gordon Research Conference 'Histone and DNA modifications' (founder and organizer)  
 2022 TSRC conference 'Epigenetic mechanisms', Telluride, CO (organizer)  
 2021 Pacificchem-2020 Congress, symposium 'Epigenetic Mechanisms and Advances in Chromatin Biology', Honolulu, HI (organizer)  
 2021 Gordon Research Conference 'Histone and DNA modifications' (founder and organizer) (cancelled)  
 2021 TSRC conference 'Epigenetic mechanisms', Telluride, CO (organizer) (cancelled)  
 2020 Pacificchem-2020 Congress, symposium 'Epigenetic Mechanisms and Advances in Chromatin Biology', Honolulu, HI (organizer) (cancelled)  
 2019 TSRC conference 'Epigenetic mechanisms', Telluride, CO (founder and organizer)  
 2014 FASEB conference 'Biological Methylation: regulation of chromatin, epigenetics and disease', Nassau, Bahamas (organizer)  
 2009 'Molecular Biology and the Environment: Biofuels and Bioremediation' mini-Symposium, MBP, Aurora, CO  
 2008 'Structural Biology in Cancer Drug Design' Symposium, UCCC, Aurora, CO  
 2008 'Programs of Cell Death' mini-Symposium, MBP, Aurora, CO  
 2007 'Epigenetics: beyond the sequence' mini-Symposium, MBP, Aurora, CO

### **EDITORIAL**

- 2023-present Guest Editor, *iScience*, issue "Epigenetics drug discovery, delivery, and targeting"  
 2023-present Editorial Board, *Science Progress*, member  
 2022-present Editor, *Biochem J*, issue "Epigenetics"  
 2022-present Guest Editor, *Current Opinion in Chem Biol*, issue "Chemical genetics and epigenetics"  
 2022-present Guest Editor, *J Mol Biol*, issue "Histone and DNA modifications"  
 2021-present Editorial Board, *Biochim Biophys Acta Gene Regulatory Mechanisms*, member  
 2021-present Editorial Board, *Molecular Biomedicine*, Springer Nature, member  
 2020-present Board of Reviewing Editors, *eLife*, member  
 2020-present Associate Editor, *Biochem J*, Biochemical Society, UK  
 2020-2021 Editorial Board and External Editor, *Communications Biology*, Nature Portfolio, member  
 2020-2021 Guest Editor, *iScience*, issue "Correlative structural biology: from structure to function"  
 2019-present Editorial Board, *Cell Discovery*, Nature Portfolio, member  
 2019-present Editorial Board, *iScience*, Cell Portfolio, member  
 2017-present Editorial Board, *Cancer Epigenetics*, Cancer Epigenetics Society, member  
 2017-present Editorial Board, *J Biol Chem*, ASBMB journal, member  
 2017 Guest Editor, *J Mol Biol*, issue "Deciphering the histone code in development and disease"  
 2016-present Editorial Advisory Board, *ACS Chemical Biology*, member  
 2016 Guest Editor, *ACS Chem Biol*, issue "Epigenetics"  
 2009 Guest Editor, *Curr Drug Targets*, issue "ING Family of tumor suppressors"

### **REFEREE**

Angewandte Chemie; Apoptosis; ACS Chem Biol; ACS Med Chem Lett; Chem Sci; Biochem J; Biochemistry; Biochim. Biophys. Acta; Bioorg Med Chem; Biophys J; Cancer Cell; Cancer Res; Cell; Cell Chem Biol; Cell Death Disease; Cell Reports; Cell Res; Chem Science; Communications Biol; Critical Rev Biochem Mol Biol; Curr Drug Targets; eLife; EMBO J; Epigenetics & Chromatin; Epigenomics; J Am Chem Soc; J Biol Chem; J Lipid Res; J Mol Biol; iScience; Mol Cell; Mol Cell Biol; Nature; Nature Chem Biol; Nature

Chem; Nature Communications; Nature Rev Moll Cell Biol; Nature Struct Mol Biol; Nucleic Acids Res; Oncology Res; Oncogene; PLOS Genetics; Proc Natl Acad Sci USA; Protein Sci; Science; Science Adv; Sci Reports; Stem Cell Reports; Structure; Trends Biochem Sci.

Faculty member: Faculty of 1000, Structural Biology/Cell Signaling and Trafficking

### **MEMBERSHIP IN PROFESSIONAL SOCIETIES**

2021-present Biochemical Society (UK)  
2020-present American Association for the Advancement of Science  
2016-present Cancer Epigenetics Society  
2004-present American Chemical Society  
2003-present American Society for Biochemistry and Molecular Biology

### **TEACHING EXPERIENCE**

2015-2016 Biomedical Core Course, IDPT7806  
2012-present Receptors and Cell Signaling, PHCL 7606  
2010 Structural Analysis of Biomolecules I, II, PHSC/BMST 7354 and 7454, course coordinator  
2009 Grant Proposals in Pharmacology, PHCL 7615  
2009-present Principles of Pharmacology, PHCL 7620  
2008 Medical Imaging Physics, University of Denver, PHYS 2340  
2007-2012 Pharmacology, DSBS 6600  
2007-present Protein Chemistry, PHSC/BMST 7350  
2007 MolBio Advanced Topics, MB 7800  
2006 Biophysics Program, University of Colorado-Boulder, CHEM 6601  
2004-present Frontiers in Pharmacology, PHCL 7600, + course director until 2011  
2002 Structural Analysis of Biomolecules II, BSTR 7454, PHSC 7454  
2002 Biomedical Science Core, IDPT 7801  
2001-2002 Molecular Biology techniques, PHCL 7630

### **MENTORING OF GRADUATE STUDENTS AT UC AMC**

2012-2016 Jovylyn Gatchalian, Ph.D. thesis research, received CU AMC-2016 Outstanding Dissertation Award (currently is a Scientist I at Ferring Pharmaceuticals, San Diego, CA)  
2012-2014 Hillary Allen, Ph.D. thesis research (currently is a faculty at FRCC, Boulder, CO)  
2006-2010 Robert Hom, Ph.D. thesis research (currently is a Scientist at Cytoskeleton, Inc, CO)  
2005-2009 Pedro Pena, Ph.D. thesis research (currently is an R&D Director of CTE Global, Inc., St. Paul, MN)  
2003-2007 Roman Brunecky, Ph.D. thesis research (currently is a Senior Scientist at the National Renewable Energy Laboratory, Golden, CO)

### **MENTORING OF POSTDOCTORAL FELLOWS AT UC AMC**

2023-present Brendan Freitas, Ph.D.  
2023-present Zohreh Tavaf, Ph.D.  
2023-present Soumi Biswas, Ph.D.  
2023-present Akshay Pareek, Ph.D.  
2022-present Karthik Selvam, Ph.D.  
2022-2023 Mohamed Halawa, Ph.D.  
2022-present Vikrant Sinha, Ph.D.  
2021-present Dustin Becht, Ph.D.  
2021-present Minh Chau Nguyen, Ph.D.

2021-present	Nitika Gaurav, Ph.D.
2021-2022	Tina Holt, Ph.D. (currently is a Scientist at Latigo Biotherapeutics, Thousand Oaks, CA)
2020-2022	Mohamad Zandian, Ph.D. (currently is a Scientific Developer at Emerald Cloud Lab, San Francisco, CA)
2020-2021	Rohit Kumar, Ph.D. (currently is a Research Associate at the University of Colorado School of Medicine, Aurora, CO)
2020	Gopinath Samykannu, Ph.D. (currently is a Researcher at Bharathiar University, India)
2018-2020	Jiuyang Liu, Ph.D. (currently is a Senior Research Investigator at BeiGene, Beijing, China)
2018-2019	Michael Holden, Ph.D. (currently is a Senior Scientist at Regeneron, New York, NY)
2016-2022	Kendra Vann, Ph.D. (currently is an Advisor at Eli Lilly, Indianapolis, IN)
2016-2022	Adam Tencer, Ph.D. (currently is a Scientist at Evive Biotech, San Francisco, CA)
2015-2021	Yi Zhang, Ph.D. (currently is an Assistant Professor at the Case Western Reserve University, Cleveland, OH)
2015-2017	Jae-Woo Ahn, Ph.D. (currently is a Scientist at Pohang University of Science & Technology, Pohang, Korea)
2015-2016	Jinyong Zhang, Ph.D. (currently is a Research Scientist at the Third Military Medical University, Chongqing, China)
2014-2016	Forest Andrews, Ph.D. (currently is a Senior Advisor at Eli Lilly, Indianapolis, IN)
2011-2022	Brianna Klein, Ph.D. (currently is a Senior Scientist at Evotec, Princeton, NJ)
2011-2015	Qiong Tong, Ph.D. (currently is a Research Scientist at the Wuhan Institute of Physics and Math, China)
2011-2015	Muzaffar Ali, Ph.D. (currently is a Senior Principal Investigator-Discovery Biology, Syngene, Bangalore, India)
2007-2013	Catherine Musselman, Ph.D. (currently is an Associate Professor at the University of Colorado School of Medicine, Aurora, CO)
2007-2011	Ju He, Ph.D. (currently is a Research Scientist at Siemens, Newark, DE)
2008-2010	Siddhartha Roy, Ph.D. (currently is a Professor at the Indian Institute of Chemical Biology, Bangalore, India)
2006-2010	Karen Champagne/Glass, Ph.D. (currently is an Associate Professor at the University of Vermont, Burlington, VT)

### **VISITING SCIENTISTS**

2016	Brian Miller, Ph.D., Professor, Florida State University
2013-2014	Ruben Rosas Ospina (B.S., Universidad del Valle)

### **MENTORING OF ROTATION AND UNDERGRADUATE STUDENTS AT UC AMC**

2021-2022	Lorena Alamillo, Pharmacology graduate student
2021	Mark Connolly, STBB graduate student
2018	Becka Warfield, Pharmaceutical Science graduate student
2016	Susana Restrepo, Pharmacology graduate student
2016	Jayce Breig, Biomed Sci Biotech graduate student
2015	Cassandra Smith, STBB graduate student
2015	Devon Trahan, Pharmacology graduate student
2014	Tenzin Dolkar, undergraduate student, Williams College
2013	Alex Barrett, STBB graduate student
2013	Molly Kingsley, BSP graduate student
2012-2013	Stacey Moslet, STBB graduate student
2012-2013	Erik Hartwick, STBB graduate student
2012	Anthony Mangan, BSP graduate student
2012	Progress Asoluka, undergraduate student, Metro State College
2012	Michael Cortazar, BSP graduate student

2012	Dong Nguyen, undergraduate student, Colorado College
2011	Hillary Allen, Neuroscience graduate student
2011	Jessica Spiltoir, Pharmacology graduate student
2011	Jovylyn Gatchalian, Pharmacology graduate student
2011	Scott Goulding, Neuroscience graduate student
2011	Valerie Olson, undergraduate student, Colorado State University
2011	Theresa Ten Eyck, undergraduate student, New York University
2011-2012	Desmond Ogbedeagu, undergraduate student, Metro State College
2010-2011	Agnieszka Kendrick, STBB graduate student
2010-2011	Ryan Walsh, STBB graduate student
2010	Michael Holliday, Molecular Biology graduate student
2010	Weston Blakeslee, Pharmacology graduate student
2010	Vanessa Diaz, undergraduate student, California State University
2010-2011	James Nunez, undergraduate student, University of Colorado Denver
2010-2011	Yantnew Gete, undergraduate student, Metro State College
2010	Wallace Liu, Pharmacology graduate student
2009	Christina Wysoczynski, Pharmacology graduate student
2009	Faven Habte, undergraduate student, University of Denver
2009	Nikita Patel, undergraduate student, University of Colorado, Boulder
2009	Suraj Aryal, undergraduate student, Metro State College
2009	Tweodros Belachew, undergraduate student, Metro State College
2008	Allison Cherry, Pharmacology graduate student
2008	Heather OLeary, Pharmacology graduate student
2007	Taylor Juergens, Pharmacology graduate student
2006-2007	Kyle Johnson, Pharmacology graduate student
2006-2007	Jennifer Schlegel, Biochemistry/BMSP graduate student
2005-2006	Robert Hom, Pharmacology graduate student
2005	James Kovacs, BMSP graduate student
2004-2005	Pedro Pena, BSP graduate student

### ***THESIS ADVISORY AND DEFENSE COMMITTEES***

2022-2023	Anna Stroynowska-Czerwinska, Ph.D. thesis research, Int Inst Mol Cell Biol, Warsaw, Poland, external referee
2022	Michelle Foreman, M.S. thesis research, chair
2021-2022	Christophe Langouet-Astrie, Ph.D. thesis research, chair
2020-2021	Becka Warfield, Ph.D. thesis research
2020-present	Harrison Fuchs, Ph.D. thesis research
2019-2022	Philip Tatman, Ph.D. thesis research, chair
2018-2021	Andrew Riching, Ph.D. thesis research
2017	Stephanie Garcia, Ph.D. thesis research
2014-2016	Rachel Fickes, Ph.D. thesis research, chair
2014-2019	Molly Kingsley, Ph.D. thesis research, chair
2014-2016	Abena Watson-Siriboe, Ph.D. thesis research
2013-2015	Sarah Martin, Ph.D. thesis research, chair
2012-2015	Scott Goulding, Ph.D. thesis research
2012-2016	Christina Wysoczynski, Ph.D. thesis research, chair
2012	Prince Tiekou, M.S. thesis research, chair
2010-2013	Sarah Moore, Ph.D. thesis research
2010-2012	Wallace Helton, Ph.D. thesis research
2010-2013	Brandi Chong, PhD. thesis research
2010-2014	Darin Brown, PhD. thesis research
2010	Douglas Donham, Ph.D. thesis research

2009-2010 Jenny Parvani, PhD. thesis research  
 2009 Henrick Horita, Ph.D. thesis research  
 2009 Kelli Kline, Ph.D. thesis research  
 2009 Jamie Booth, M.S. thesis research  
 2008-2011 Tressa Allington, Ph.D. thesis research  
 2008-2009 Krista Hill, Ph.D. thesis research  
 2008 Jacqueline Hartley, Ph.D. thesis research  
 2007-2010 Brian Ziemba, Ph.D. thesis research  
 2006-2010 James Kovacs, Ph.D. thesis research, chair  
 2006-2009 Michael Guarnieri, Ph.D. thesis research  
 2006-2008 Adele Blackler, Ph.D. thesis research  
 2006-2011 Clifton Hackbarth, Ph.D. thesis research, chair  
 2005-2008 Glenn Simon, Ph.D. thesis research  
 2003-2007 Daniel Kao, Ph.D. thesis research  
 2003-2004 Matthew Cheever, Ph.D. thesis research

### ***UC AMC COMPREHENSIVE EXAMINATION COMMITTEES***

2022 Michelle Foreman  
 2020 Becka Warfield; Harrison Fuchs  
 2017 Stephanie Garcia; Philip Tatman; Greg Wright  
 2016 Andrew Riching  
 2015 Sarah Haeger; Abena Watson-Siriboe; Molly Kingsley  
 2014 Brent Fitzwalter  
 2013 Hillary Allen  
 2012 Sarah Martin; Hannah Edlin; Scott Goulding  
 2011 Wallace Liu; Christina Wysoczynski  
 2010 Brandi Chong; Darin Brown  
 2007 Clifton Hackbarth; Kelli Kline; Henrick Horita; James Kovacs  
 2006 Douglas Donham; Kelly Grant; Michael Guarnieri  
 2005 Glenn Simon; Adele Blackler

### ***UC AMC/UC CANCER CENTER COMMITTEES***

2023-present Pharmacology Promotions Committee, member  
 2023-2024 Pharmacology 2024 retreat Committee, member  
 2022-present Pharmacology Faculty Recruitment Search Committee, member  
 2017-2021 UC SOM Promotions Committee, member  
 2016-2019 UC AMC Faculty Senate, member  
 2016-2017 Pharmacology Faculty Recruitment Search Committee, member  
 2016 School of Medicine Committee on Department of Surgery Divisions, member  
 2015-2017 Pharmacology Promotions Committee, chair  
 2015 UC AMC Dean's Review Committee, Skaggs School of Pharmacy and Pharmaceutical Sciences, member  
 2014-2017 School of Medicine Dean's Advisory Committee, member  
 2012-2014 ASPET Summer Undergraduate Research Fellowship for Underrepresented Populations (SURF) Program, director  
 2012-2015 Curriculum Committee, STBB, chair  
 2012-2015 Graduate Training Committee, STBB, member  
 2011-2015 Pharmacology Admissions Committee, member  
 2011-2013 Pharmacology Admissions Committee, chair  
 2011 Department of Pharmacology 2011 retreat, chair  
 2010-2011 Admissions Committee, STBB, chair

- 2010-present Membership Committee, MBP, member  
2010-2011 Pharmacology Faculty Recruitment Search Committee, member  
2010-2014 Pharmacology SURF students Admissions Committee, member  
2010-2015 Pharmacology Seminar Committee, chair  
2009-2010 Curriculum Committee, STBB, chair  
2009-2010 Steering Committee, STBB, member  
2008-2009 Curriculum Committee, MBP, chair  
2008 Department of Pharmacology 2008 retreat, chair  
2006-2008 Curriculum Committee, MBP, member and co-chair  
2005-present Graduate Training Committee, Department of Pharmacology, member  
2005-2008 UC Cancer Center/ACS, Grant reviewer  
2005-2007 STBB Seminar Committee, chair  
2004-2005 STBB Seminar Committee, member

## **PUBLICATIONS**

209. Gaurav, N., Kanai, A., Lachance, C., Cox, K.L., Liu, J., Grzybowski, A.T., Saksouk, N., Klein, B.J., Komata, Y., Asada, S., Ruthenburg, A.J., Poirier, M.G., Côté, J., Yokoyama, A. and Kutateladze, T.G. Guiding the HBO1 complex function through the JADE subunit, **Nature Str Mol Biol**, 2023, accepted in principle
208. Sinha, V.K., Zhang, Y., Xu, L., Chen, Y-W., Picaud, S., Zandian, M., Biswas, S., Filippakopoulos, P., Wang, S-P., Shi, X. and Kutateladze, T.G. Histone H4K16ac binding function of the triple PHD finger cassette of MLL4, **J. Mol. Biol.**, 2023, online
207. Smith, A.L., Pal, D., Martinez-Rico, R., Eiken, A.P., Durden, D.L., Kutateladze, T.G. and ElGamal, D. Preclinical activity of a novel multi-axis inhibitor in aggressive and indolent B-cell malignancies, **Leuk Lymphoma**, online
206. Brown, K., Chew, P.Y., Ingersoll, S., Espinosa, J.R., Aguirre, A., Kutateladze, T.G., Guevara, R.C., and Ren, X. Principles of assembly and regulation of condensates of Polycomb repressive complex 1 through phase separation, **Cell Reports**, 2023, 42(10):113136.
205. Tencer, A.H., Yu, Y., Causse, S., Campbell, G.R., Klein, B.J., Xuan, H., Cartier, J., Miles, M.A., Gaurav, N., Zadoroznyj, A., Holt, T.A., Wen, H., Hawkins, C.J., Spector, S.A., Dubrez, L., Shi, X. and Kutateladze, T.G. Molecular basis for nuclear accumulation and targeting of the inhibitor of apoptosis BIRC, **Nature Str Mol Biol**, 2023, 30(9):1265-74.
204. Nguyen, M.C., Wang, D., Klein, B.J., Chen, Y. and Kutateladze, T.G. Differences and similarities in recognition of co-factors by Taf1., **Biochim. Biophys. Acta**, 2023, 1866(3):194961.
203. Gaurav, N. and Kutateladze, T.G. Non-histone binding functions of PHD fingers, **Trends in Biochem. Sci.**, 2023, 48(7):610-617.
202. Liu, J., Chaves-Arquero, B., Wei, P., Tencer, A.H., Ruiz-Albor, A., Zhang, G., Blanco, F.J. and Kutateladze, T.G. Molecular insight into the PCNA-binding mode of FBH1, **Structure**, 2023, 31(5):511-517.e3.
201. Black, J.C. and Kutateladze, T.G. Atypical histone targets of PHD fingers, **J. Biol. Chem.**, 2023, 299(4):104601.
200. Ortiz, G., Kutateladze, T.G. and Galonic Fujimori, D., Chemical tools targeting readers of lysine methylation, **Curr. Opin. Chem. Biol.**, 2023, 74:102286.
199. Becht, D.C., Klein, B.J., Kanai, A., Jang, S.M., Cox, K.L., Zhou, B.R., Phanor, S.K., Zhang, Y., Chen, R.W., Ebmeier, C.C., Lachance, C., Galloy, M., Fradet-Turcotte, A., Bulyk, M.L., Bai, Y., Poirier, M.G., Côté, J., Yokoyama, A. and Kutateladze, T.G. MORF and MOZ acetyltransferases target unmethylated CpG islands through the winged helix domain, **Nature Commun.**, 2023, 14(1):697.
198. Nguyen, M.C., Strahl, B.D. and Kutateladze, T.G. Engaging with benzoyllysine through a  $\pi$ - $\pi$  mechanism, **Curr. Opin. Chem. Biol.**, 2023, 72:102252.
197. Lee, E, Redzic, J., Saviola, A., Li, X., Kutateladze, T., Hansen, K.C., Zhao, R., Ahn, N., Sluchanko, N.N. and Eisenmesser, E. Molecular insight into the specific interactions of the SARS-CoV-2 Nucleocapsid with RNA and host protein, **Protein Sci.**, 2023, 32(4):e4603.

196. Hatazawa, S., Liu, J., Takizawa, Y., Zandian, M., Negishi, L., Kutateladze, T.G. and Kurumizaka, H. Structural basis for acetyltransferase p300 binding to the nucleosome, **iScience**, 2022, 25(7):104563.
195. Liu, J. and Kutateladze, T.G. Dietary polyphenols link extracellular histones and non-histone proteins, **J. Biol. Chem.**, 2022, 298(12):102651.
194. Zandian, M., Chen, I.P., Byraredy, S.N., Fujimori, D.G., Ott, M. and Kutateladze, T.G. Catching BETs by viruses, **Biochim. Biophys. Acta**, 2022, 1865(7), 194859.
193. Vann, K.R., Acharya, A., Jang, S.M., Lachance, C., Zandian, M., Tina A. Holt, Smith, A.L., Pandey, K., Durden, D.L., ElGamal, D., Côté, J., Byraredy, S.N. and Kutateladze, T.G. Binding of the SARS-CoV-2 envelope E protein to human BRD4 is essential for infection, **Structure**, 2022, 30(9):1224-32.e5.
192. Zandian, M., Jang, S.M., Lachance, C., Acharya, A., Byraredy, S.N., Côté, J. and Kutateladze, T.G. Characterization of multiple interactions between the envelope E protein of SARS-CoV-2 and human BRD4, **STAR Protoc.**, 2022, 3:101853.
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189. Klein, B.J., Feigerle, J.T., Zhang, J., Ebmeier, C.C., Fan, L., Singh, R.K., Wang, W.W., Schmitt, L.R., Lee, T., Hansen, K.C., Liu, W.R., Wang, Y.X., Strahl, B.D., Weil, P.A. and Kutateladze, T.G. Taf2 mediates DNA binding of Taf14. **Nature Commun.**, 2022, 13(1):3177.
188. Zhang, Y., Towers, C.G., Singh, U.K., Liu, J., Håkansson, M., Logan, D.T., Donini, O. and Kutateladze, T.G. Dusquetide modulates innate immune response through binding to p62. **Structure**, 2022, 30(8):1055-61.e7.
187. Acharya, A., Kutateladze, T.G. and Byraredy, S.N. Combining antiviral drugs with BET inhibitors is beneficial in combatting SARS-CoV-2 infection. **Clin. Transl. Discov.**, 2022, 2(2):e66.
186. Acharya, A., Pathania, A.S., Pandey, C., Thurman, M., Vann, K.R., Kutateladze, T.G., Challagundala, K.B., Durden, D.L., Byraredy, S.N. PI3K- $\alpha$ /mTOR/BRD4 inhibitor alone or in combination with other anti-virals blocks replication of SARS-CoV-2 and its variant of concerns including Delta and Omicron. **Clin. Transl. Med.**, 2022, 12(4):e806.
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184. Vann, K.R., Pal, D., Smith, A.L., Sahar, N., Krishnaian, M., El-Gamal, D. and Kutateladze, T.G. Combinatorial inhibition of BTK, PI3K-AKT and BRD4-MYC as a strategy for treatment of mantle cell lymphoma. **Mol. Biomed.**, 2022, 3(1):2.
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182. Zhang, Y., Brown, K., Yucong, Y., Ibrahim, Z., Zandian, M., Ingersoll, S., Lee, T., Ebmeier C.C., Liu, J., Panne D., Shi, X., Ren, X. and Kutateladze, T.G. Nuclear condensates of p300 formed though the structured catalytic core can act as a storage pool of p300 with reduced HAT activity. **Nature Commun.**, 2021, 12(1):4618.
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175. Le Paige, U.B., Xiang, S., Hendrix, M.M., Zhang, Y., Weingarth, M., Bonvin, A.M., Kutateladze, T.G., Voets, I.K., Baldus, M., van Ingen, H. Characterization of nucleosome sediments for protein interaction studies by solid-state NMR spectroscopy, **Magn. Reson.**, 2021, 2, 187-202.
174. Engelberg, I.A., Liu, J., Norris-Drouin, J.L., Cholensky, S.H, Ottavi, S.A., Frye, S.V., Kutateladze, T.G. and James, L.I. Discovery of an H3K36me3-derived peptidomimetic ligand with enhanced affinity for plant homeodomain finger protein 1 (PHF1). **J. Med. Chem.**, 2021, 64(12):8510-22.
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171. Klionsky, D.J., .... Kutateladze, T.G. et al. Guidelines for the use and interpretation of assays for monitoring autophagy, **Autophagy**, 2021, 17(1):1-382.
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168. Zhang, Y., Guo, Y., Gough, S.M., Zhang, J., Vann, K.R., Li, K., Cai, L., Shi, X., Aplan, P.D., Wang, G.G. and Kutateladze, T.G. Mechanistic insights into chromatin targeting by leukemic NUP98-PHF23 fusion. **Nature Commun.**, 2020,11(1):3339 (featured on Editor's Highlights).
167. Liu, J., Xue, Z., Vann, K.R., Shi, X. and Kutateladze, T.G. Protocol for biochemical analysis and structure determination of the ZZ domain of the E3 ubiquitin ligase HERC2. **STAR Protoc.**, 2020, 1(3):100155.
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164. Vann, K.R., Pal, D., Morales, G.A., Burgoyne, A.M., Durden, D.L. and Kutateladze, T.G. Design of thienopyranone-based BET inhibitors that bind multiple synthetic lethality targets. **Sci. Reports**, 2020, 10(1):12027.
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162. Vann, K.R., Tencer, A.H. and Kutateladze, T.G. Inhibition of translation and immune responses by the virulence factor Nsp1 of SARS-CoV-2. **Signal Transduct. Target Ther.**, 2020, 5(1):234.
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