#### Curriculum Vitae (revised 8/17/2021)

#### G Greg Wang, Ph.D.

University of North Carolina at Chapel Hill, School of Medicine

Department of Biochemistry and Biophysics

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#### A. Personal Information

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## B. Education

•	2007 - 2011	Postdoctoral fellow (mentor: C. David Allis), Laboratory of Chromatin Biology & Epigenetics, Rockefeller University, New York, NY, USA
	2000 - 2006	Ph.D. in Biomedical Sciences (mentor: Mark P. Kamps; co-mentor: Christopher K. Glass), University of California San Diego, La Jolla, CA, USA
	1997 - 2000	M.S. in Pathogenic and Cancer Biology (mentor: Jiang-ren Gu), Fudan University Shanghai Medical College, Shanghai, China
	1993 - 1997	B.S. in Biochemistry, Fudan University School of Life Sciences, Shanghai, China

<u>Professional Experience</u>		
2018 - present	Associate Professor (tenured), Department of Biochemistry and Biophysics, Department of Pharmacology & Lineberger Comprehensive Cancer Center, University of North	
2012	Carolina at Chapel Hill, Chapel Hill, NC	
2012 - present	Member, Lineberger Comprehensive Cancer Center, University of North Carolina at Chapel Hill, NC	
2012 - present	Preceptor, T32 Cancer Epigenetics Training Program (CETP), University of North Carolina at Chapel Hill, NC	
2012 - 2018	Assistant Professor (tenure track), Department of Biochemistry and Biophysics, Lineberger Comprehensive Cancer Center, University of North Carolina at Chapel Hill, Chapel Hill, NC	

Dec 2011-April 2012 Visiting Assistant Professor, Department of Biochemistry and Biophysics, University of North Carolina, Chapel Hill, NC

#### D. Honors and Awards

2022	American Society of Biochemistry & Molecular Biol. (ASBMB) Young Investigator Award
2019	Yang Family Biomedical Scholar, UNC School of Medicine
2019	Phillip and Ruth Hettleman Prize for Artistic and Scholarly Achievement, UNC

2018	Leukemia & Lymphoma Society (LLS) Scholar
2017	Gilead Sciences Research Scholar, Gilead Inc. Scholars Program
2016	American Cancer Society (ACS) Research Scholar
2014	Janet D. Rowley Medical Research Award, Gabrielle's Angel Foundation for Cancer Res.
2014	Kimmel Scholar, Sidney Kimmel Foundation for Cancer Research
2014	Conquer Cancer Now (Concern) Award, Concern Foundation
2013	Jefferson-Pilot Fellowship in Academic Medicine, UNC
2013	American Society of Hematology (ASH) Scholar in Basic Science
2012	Martin D. Abeloff, M.D. V Scholar*, V Foundation for Cancer Research (*top rating)
2010	Howard Temin Pathway to Independence Award in Cancer Research (NCI K99/R00)
2008	Leukemia & Lymphoma Society (LLS) Fellow Award
2008	Irvington Institute & Cancer Research Institute Postdoctoral Fellowship (declined)
2007	Choh-Hao Li Memorial Fund Scholar (postdoctoral fellowship)
2000	Lian-He Scholarship (merit-based award to graduate/medical student), Fudan University
1994 - 1996	People's Scholarship (merit-based undergraduate scholarship), Fudan University
1993	Merit High School Student, Providence of Jiang-su, P.R. China

### E. Bibliography

(Reverse chronological order; #, co-correspondence; \*, co-first authors)

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- 2. Zhao S, Allis CD and <u>Wang GG</u>. The language of chromatin modification in human cancers. **Nat Rev** Cancer. (2021) Jul;21(7):413-430. \* PMID: 34002060. \*With Editor's cover illustration
- 3. Xu C, Tsai YH, Galbo PM, Gong W, Storey AJ, Xu Y, Byrum SD, Xu L, Whang YE, Parker JS, Mackintosh SG, Edmondson RD, Tackett AJ, Huang J, Zheng D, Earp HS, <u>Wang GG</u>#, Cai L#. Cistrome analysis of YY1 uncovers a regulatory axis of YY1:BRD2/4-PFKP during tumorigenesis of advanced prostate cancer. **Nucleic Acids Res**. (2021) May 21;49(9):4971-4988. PMID: 33849067
- 4. Fan H\*, Guo Y\*, Tsai YH, Storey AJ, Gong W, Mackintosh SG, Edmondson RG, Byrum SD, Tackett AJ, Cai L, <u>Wang GG</u>. A conserved BAH module within mammalian BAHD1 connects H3K27me3 to Polycomb gene silencing. **Nucleic Acids Res**. (2021) May 7; 49(8):4441-4455. PMID: 33823544
- 5. Ren W\*, Fan H\*, Grimm SA, Guo Y, Kim JJ, Li L, Petell CJ, Tan XF, Zhang ZM, Coan JP, Yin J, Gao L, Cai L, Detrick B, Çetin B, Wang Y, Cui Q, Strahl BD, Miller KM, O'Leary SE, Wade PA, Patel DJ, Wang GG#, Song J#. DNMT1 reads heterochromatic H4K20me3 to reinforce DNA methylation of transposons. Nature commun. (2021) May 3; 12(1):2490. PMID: 33941775.
- Guo Y, Zhao S, and <u>Wang GG</u>. Polycomb Gene Silencing Mechanisms: PRC2 Chromatin Targeting, H3K27me3 'Readout', and Phase Separation-Based Compaction. <u>Trends Genet</u>. (2021) Jun;37(6):547-

- 7. Li J, Galbo P, Gong W, Storey AJ, Tsai YH, Mackintosh SG, Edmondson RG, Byrum SD, CaiL, Jin J, Tackett AJ, Zheng D, <u>Wang GG</u>. ZMYND11-MBTD1 induces leukemogenesis through hijacking NuA4/TIP60 acetyltransferase complex and a PWWP-mediated chromatin association mechanism. Nature commun. (2021) Feb 16; 12(1):1045. PMID:33594072
- 8. Fan H\*, Lu J\*, Guo Y, Li D, Zhang ZM, Tsai YH, Pi WC, Ahn JH, Gong W, Xiang Y, Allison DF, Geng H, He S, Diao Y, Chen WY, Strahl BD, Cai L, Song J#, <u>Wang GG#</u>. BAHCC1 binds H3K27me3 via a conserved BAH module to mediate gene silencing and oncogenesis. **Nature Genetics** (2020) Dec; 52(12):1384-1396. PMID: 33139953.
- 9. Wang J, <u>Wang GG</u>. No Easy Way Out for EZH2: Its Pleiotropic, Noncanonical Effects on Gene Regulation and Cellular Function. Int J Mol Sci. (2020) Dec 14; 21(24):9501. PMID: 33327550.
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- 11. Ren W\*, Fan H\*, Grimm SA, Guo Y, Kim JJ, Li L, Petell CJ, Tan XF, Zhang ZM, Coan JP, Yin J, Gao L, Cai L, Detrick B, Çetin B, Wang Y, Cui Q, Strahl BD, Gozani O, Miller KM, O'LearySE, Wade PA, Patel DJ, <u>Wang GG</u>#, Song J#. Direct readout of heterochromatic H3K9me3 regulates DNMT1-mediated maintenance DNA methylation. **Proc Natl Acad Sci.** (2020) Aug 4;117(31):18439-18447.
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  \*Editors' views at Blood 2005; 106(1):6-7.
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#### F. Invention & Patent

#### Approved/issued

WD40 REPEAT DOMAIN PROTEIN 5 (WDR5) DEGRADATION / DISRUPTION COMPOUNDS AND METHODS OF USE (INTERNATIONAL APPLICATION NO.PCT/US2019/038560); issued to Drs. Jin, Wang, Li, Liu, Yu

#### Pending

HETEROBIFUNCTIONAL COMPOUNDS AS DEGRADERS OF NSD3; issued to Drs. Wang, Jin, Xu, Kaniskan, Meng

#### G. Seminars & speeches (in reverse chronological order)

#### INVITED PRESENTATIONS - INTERNATIONAL & NATIONAL

12/16/2021	Speech, Epigenetic Mechanisms and Advances in Chromatin Biology, 2021 International
	Chemical Congress of Pacific Basin Societies, Honolulu, Hawaii, USA (virtual)
11/7-12/2021	Invited Speech, the 2021 EpiCypher Conference on Biological and Clinical Frontiers in
	Epigenetics, Clearwater Beach, FL, USA
11/4-6/2021	Invited Speech, the 5th International Conference on Epigenetics and Bioengineering
	(EpiBio 2021), Raleigh, North Carolina, USA (virtual)
10/8-11/2021	Invited Speech, European School of Hematology (ESH), 23rd John Goldman E-
	Conference on CML: Biology and Therapy, Mandelieu-La Napoule, France (virtual)

10/31/2020	Invited Speech, 7th International Conference in Laboratory Medicine organized by
7/8-12/2019	Wenzhou Medical University, Wenzhou, China (virtual) Invited Talk, 2019 Telluride Symposium on Epigenetic Mechanisms, Telluride, CO, USA
4/28-29/2019	Talk (as symposium co-organizer), 43rd Annual Lineberger Symposium on Dysregulated
4/20 27/2017	Signaling Pathways in Cancer, Chapel Hill, NC, USA
11/7/2018	Invited Talk, the 2018 EpiCypher Conference on Biological and Clinical Frontiers in
11,7,2010	Epigenetics, Nassau, Bahamas
6/20/2018	Talk, the 2018 FASEB Conference on Biological Methylation: Fundamental Mechanisms
, ,	in Human Health and Disease, Florence, Italy
5/7/2018	Invited Talk (Lightning round), the 12th International Workshop on "Molecular Aspects
	of Myeloid Stem Cell Development and Leukemia", Cincinnati, OH, USA
4/23/2017	Invited Talk (Spotlight Session), the 17th Annual Meeting of the American Society for
	Biochemistry and Molecular Biology (ASBMB), Chicago, IL, USA
11/15/2016	Invited Talk, the 7th Annual Medical Symposium of Gabrielle's Angel Foundation for
	Cancer Research, New York City, NY, USA
4/21-22/2016	Invited Talk (as symposium organizer), the 2016 Epicypher Conference on Biological and
	Clinical Frontiers in Epigenetics, San Juan, Puerto Rico
2/9/2015	Invited Talk, the 2015 Workshop on Epigenetic Inhibitors-Target Validation through
	Chemical Biology, Toronto, Canada
7/7/2014	Invited Talk, the 2014 FASEB meeting on Methylation and Epigenetics, Nassau, Bahamas
4/21/2014	Invited Talk, the 38th Annual Lineberger Symposium on Epigenetics and Cancer, Chapel
	Hill, NC, USA
9/24/2013	Invited Talk, the 2nd Annual Conference on Targeting Histone Methyltransferases,
	Boston, MA, USA
9/26/2011	Invited Talk, Annual symposium of Starr Foundation Cancer Consortium, Cold Spring
< 14 < 10 000	Harbor, NY, USA
6/16/2009	Talk Selected from Abstracts, the 2009 FASEB Conference on "Epigenetics, Chromatin
1 // 10000	and Transcription", Snowmass, CO, USA
1/6/2008	Invited Talk, the 2nd Genetic Society of America (GSA) Meeting on Model Organisms &
12/12/2005	Human Biology, San Diego, CA, USA
12/12/2005	Talk Selected from Abstracts, the 47th Annual Meeting of the American Society of
	Hematology (ASH), Atlanta, GA, USA

# INVITED PRESENTATIONS - REGIONAL AND OTHER INVITED PRESENTATIONS

4/27/2022	Invited Seminar, Cancer Biology Seminar Series, University of Chicago, Chicago, IL
2/7/2022	Invited Seminar, Department of Pathology, University of California San Diego, La Jolla, CA
11/29/2021	Invited Seminar, MRC Weatherall Institute of Molecular Medicine and John Radcliffe
	Hospital, University of Oxford, Oxford, UK (virtual)
9/22/2021	Invited Seminar, Van Andel Institute, Grand Rapids, MI (virtual)
7/29/2021	Invited Seminar, Sylvester Comprehensive Cancer Center, University of Miami Miller
	School of Medicine, Miami, FL (virtual)
3/24/2021	Seminar, Dept. of Biochemistry & Biophysics and Dept. of Pharmacology, UNC, Chapel
	Hill, NC
3/17/2021	Distinguished Scientists Seminar Series, Dept. of Molecular & Cellular Oncology, M.D.
	Anderson Cancer Center, Houston, TX (virtual)
3/9/2021	Invited Seminar, Department of Biochemistry, Purdue University, West Lafayette, IN
	(virtual)

3/3/2021	Invited Seminar, Department of Biomedical Sciences, School of Medicine and Health
12/9/2020	Sciences, University of North Dakota, Grand Forks, ND (virtual) Invited Speech, the 2020 Korea Research Institute of Bioscience and Biotechnology
0/14/0000	(KRIBB) Annual Conference, Daejeon, Republic of Korea (virtual)
2/14/2020	Award Seminar, the 2019 UNC Yang Biomedicine Scholar Awardees Presentations, UNC School of Medicine, Chapel Hill, NC
11/4/2019	Award Seminar, the 2019 Hettleman Prize Awardees Presentations, UNC University Research Week, Chapel Hill, NC
5/14/2019	Invited Seminar, Department of Biochemistry and Molecular Medicine & Program in Epigenetics and Regulation, USC Norris Comprehensive Cancer Center, University of Southern California, Los Angeles, CA
5/7/2019	Invited Seminar, Department of Biochemistry, Albert Einstein College of Medicine, Bronx, NY
4/12/2019	Invited Seminar, Distinguished Scholars Seminar Series, Hackensack Meridian Health Center for Discovery and Innovation & HMH Cancer Center, Nutley, NJ
4/1/2019	Invited Seminar, Winthrop P. Rockefeller Cancer Institute and Department of
	Biochemistry & Molecular Biology, University of Arkansas for Medical Sciences (UAMS),
	Little Rock, AR
3/7/2019	Interest Group Talk, Carolina Chromatin Consortium (C3), Chapel Hill, NC
2/19/2019	Invited Seminar, Hematologic Malignancies and Cellular Therapies Program, Duke Cancer Institute, Duke University Medical Center, Durham, NC
3/19/2018	Invited Seminar, Laboratory of Chromatin and Gene Expression, NIH/NIEHS, Research Triangle Park, NC
11/13/2017	Invited Seminar, Divisions of Experimental Hematology and Cancer Biology, Cincinnati
	Children's Hospital Medical Center, Cincinnati, OH
10/10/2017	Annual Retreat Talk, UNC Lineberger Comprehensive Cancer Center, Chapel Hill, NC
6/26/2017	Invited Seminar, Departments of Pharmacological Sciences and Oncological Sciences,
	Icahn School of Medicine at Mount Sinai, New York City, NY
5/22/2017	Invited Seminar, Cancer Research UK Edinburgh Centre, MRC Centre for Regenerative Medicine & MRC Centre for Reproductive Health, University of Edinburgh, Edinburgh,
5/15/2017	Scotland, UK Invited Seminar Series in Epigenetics, Dept. of Pathology & Yale Cancer Center, Yale
3/13/2017	Medical School, New Heaven, CT
4/12/2017	Invited Seminar, Dept. of Molecular Medicine, University of Texas Health Science Center at San Antonio, San Antonio, TX
12/1/2016	Interest Group Talk, Carolina Chromatin Consortium (C3), Chapel Hill, NC
11/7/2016	Invited Seminar, Dept. of Biochemistry & Molecular Genetics (BMG) Red Banner Seminar
	Series, University of Alabama at Birmingham (UAB), Birmingham, AL
5/7/2015	Interest Group Talk, Carolina Chromatin Consortium (C3), Chapel Hill, NC
12/1/2014	Annual Retreat Talk, combined Programs in Cell Biology and Molecular Therapeutics, UNC Lineberger Cancer Center Cancer, Chapel Hill, NC
6/13/2014	Invited Seminar, Moffitt Cancer Center and University of South Florida (USF), Tampa, FL
2/19/2014	Invited Seminar, Institute of Experimental Cancer Research, University of Ulm, Ulm,
_, _, <b>_</b> _, _	Germany
9/16/2013	Invited seminar, Peking-Tsinghua Center for Life Sciences, Peking University, Beijing,
11/8/2012	China Invited Seminar, Section on Chromatin and Gene Expression, National Institute of
11/0/2012	Environmental Health Sciences (NIEHS), Research Triangle Park, NC
10/28/2012	Annual Retreat Talk, UNC Dept. of Biochemistry & Biophysics, Wilmington, NC

10/23/2012	Invited Seminar, Dept. of Environmental and Molecular Toxicology, North Carolina State University, Raleigh, NC
6/14/2011	Invited Seminar, Dept. of Biochemistry & Molecular Medicine, University of California at Davis School of Medicine, Sacramento, CA
4/6/2011	Invited Seminar, Division of Hematology & Oncology, Children's Hospital Boston, Boston, MA
3/3/2011	Invited Seminar, Lineberger Comprehensive Cancer Center, University of North Carolina at Chapel Hill, Chapel Hill, NC
2/22/2011	Invited Seminar, Dept. of Molecular & Cellular Biology, UC Berkeley, CA
2/14/2011	Invited Seminar, Dept. of Pharmacology & Cancer Biology, Duke University, Durham, NC
2/8/2011	Invited Seminar, Dept. of Biological Chemistry, University of Michigan at Ann Arbor, MI
1/27/2011	Invited Seminar, Skirball Institute, Developmental Genetics Program, New York University, NY
1/24/2011	Invited Seminar, Cancer Biology & Genetics Program, Memorial Sloan-Kettering Cancer Center, NY, NY
1/19/2011	Invited Seminar, Department of Molecular Biology and Green Center of Reproductive Biology, UT Southwestern Medical Center, Dallas, TX
1/11/2011	Invited Seminar, Dept. of Developmental Biology, Washington University, St Louis, MO
12/6/2010	Invited Seminar, Dept. of Cell Biology & Anatomy, University of California at Davis, Davis, CA
11/18/2010	Invited Seminar, Dept. of Biomolecular Chemistry and Wisconsin Institute for Discovery, University of Wisconsin-Madison, Madison, WI
11/9/2010	Invited Seminar, Dept. of Molecular & Cellular Oncology, M.D. Anderson Cancer Center, Houston, TX
9/29/2010	Invited Seminar, Dept. of Therapeutic Radiology, Yale School of Medicine, New Haven, CT
9/16/2010	Invited Seminar, Ontario Cancer Institute & University of Toronto, Toronto, Canada
2/19/2010	Invited Seminar, Wells Center for Pediatric Research, Indiana University-Purdue
	University at Indianapolis (IUPUI) School of Medicine, Indianapolis, IN

# H. Memberships

2012 - present	American Society of Biochemistry & Molecular Biology (ASBMB)
2007 - present	American Association of Cancer Research (AACR)
2003 - present	American Society of Hematology (ASH)

# I. Services

# **Grant review panel**

Regular member, NIH Cancer Molecular Pathobiology (CAMP) study section
Regular member, American Cancer Society (ACS) Peer Review Committee on DNA
Mechanisms in Cancer
Ad hoc review panel for funding agents in USA:
NIH Special Emphasis Panel ZRG1 OBT-H (02) M (2019 April);
NIH Cancer Molecular Pathobiology (CAMP) study section (2017-2018);
UNC's University Cancer Research Fund Stimulus Grants review panel (2016, 2017);
NIH Cancer Genetics (CG) study section (2015 Oct)

2011 - present Ad hoc review panel for funding agents outside of USA:

French National Cancer Institute/Institut National du Cancer (INCa), France (2021; 2019;

2018);

Swiss National Science Foundation (SNSF) (2021)

Worldwide Cancer Research, UK (2019);

Medical Research Council (MRC), UK (2018, 2015);

Natural Sciences & Engineering Research Council of Canada, Canada (2018, 2017);

Cancer Research Wales, UK (2016); European Research Council (ERC) (2013); Kay Kendall Leukemia Fund, UK (2009)

#### Symposium organizer

April 28-30, 2019 co-organizer, the 43rd Annual Lineberger Symposium on "Dysregulated Signaling

Pathways in Cancer: Insights into Novel Mechanisms and Therapeutic Approaches",

Chapel Hill, NC

Feb 16, 2018 co-organizer, Abcam Symposium on "Epigenetics, Chromatin Structure and Epi-

transcriptomics", research triangle park (RTP), NC

Sept 14, 2015 co-organizer, Abcam Symposium on "The Epigenetics in development, aging and

disease", Chapel Hill, NC

April 28-30, 2014 co-organizer, The 38th Annual Lineberger Symposium on "Epigenetics and Cancer",

Chapel Hill, NC

## Services to professional publications

Ad hoc referee for peer-reviewed manuscripts:

ACS Chemical Biology, Biochemistry, Blood, British Journal of Cancer, Cancer Research, Cell, Cell Chemical Biology, Cell Reports, Cell Research, Current Biology, eLife, Genome Biology, Haematologica, Leukemia, Journal of Cell Biology, Journal of Clinical Investigation, Molecular Cell, PNAS, Nature, Nature Chemical Biology, Nature Communications, Nucleic Acid Research, PLOS Biology, PLOS Genetics, Science, Science Advances, Scientific Reports, Structure

#### **Services to School**

UNC at Chapel Hill:

1. UNC Campus:

Admissions Committee, Biological and Biomedical Sciences Program (BBSP) (2012-16) School of Medicine Conflict of Interest Committee (SOM COIC; 2019-2021)

2. Lineberger Comprehensive Cancer Center:

Overall Strategic Planning Committee (2018)

3. Dept. of Biochemistry and Biophysics:

Committee of PHD qualifying comprehensive examination (2014; 2015; 2021);

Organizer, faculty roundtable (2015 - 2019);

Co-chair, committee of annual retreat (2016; 2017);

## J. Teaching activities

2019 - present	Cancer Epigenetics Training Program (CETP) Colloquium; 1 lecture on cancer epigenetics
2018 - present	Biochemistry 702: Advanced Topics on Chromatin and Epigenetics; 1 lecture on cancer
	epigenetics or chromatin
2017 - present	Pathology 725: Cancer Pathobiology; 1 lecture on cancer epigenetics or chromatin

Biochemistry 706: Biochemistry of Human Disease; 1 lecture and 1 discussion session on cancer unit
BBSP 902: Faculty Co-mentor for 1st-year Graduate Students; Meet twice monthly, 2 hrs
per mtg Biochemistry 107: Introduction to Biochemistry; 5 lectures and 1 review session on molecular biology unit
Biochemistry 108: Introduction to Biochemistry; 5 lectures and 1 review session on molecular biology & gene expression unit
MTEC103.MSK (Medical Science Course 3. Musculo-skeletal Block); 1 small group lecture on case conference
Mentoring Committee on Junior Faculty:
Dr. Shenghui He, Assistant Professor (research track), Dept. of Genetics, UNC (2019 –
present); Dr. Motoki Takaku, Assistant Professor (tenure track), Dept. of Biomedical
Sciences, University of North Dakota (2019 - present)
Informal teaching, serving on Thesis Advisory Committee for PHD students:
Yani Zhao (mentor: Dr. Nate Hathaway; 2021 – present),
Michael Kelly (mentor: Dr. Hector Franco; 2019 - present),
Gabrielle Dardis (mentor: Dr. Albert Baldwin; 2019 - present),
Keean Braceros (mentor: Dr. Mauro Calabrese; Chair, 2019 – present),
Nathaniel Wesley (mentor: Dr. Robert McGinty; 2019 – present),
Cyril Anyetei-Anum (mentor: Dr. Daniel McKay; 2019 – present),
Meng Cheng (mentor: Dr. Albert Baldwin & Dr. Yue Xiong; 2018 – present),
Cathy J. Anderson (mentor: Dr. Robert McGinty; Chair, 2018 – present),
Jibo (Dylan) Zhang (mentor: Dr. Brian Strahl; 2018 – present),
Tamara Vital (mentor: Dr. Ian Davis; 2017 – present),
Yifei Sun (mentor: Dr. Martin Walsh, Icahn School of Medicine at Mount Sinai; 2017 –19),
Kathryn M. Headley (mentor: Dr. Nate Hathaway; 2016 - 2019),
Astor Ankney (mentor: Dr. Xian Chen; 2016 - 2019),
Hashem Meriesh (mentor: Dr. Brian Strahl; 2016 - 2019),
Andrew Lerner (mentor: Drs. Brian Kuhlman and Brian Strahl; Chair, 2015 - 2019),
Patricia Vignaux (mentor: Dr. Nate Hathaway; 2015 - 2019),
Lauren Waldron (mentor: Dr. Frank Conlon; 2013 - 2015),
Kyle Konze (mentor: Dr. Jian Jin; 2012 - 2015),
Michael Perfetti (mentor: Dr. Stephen Frye; 2012 - 2015),
Yunus Annayev (mentor: Dr. Aziz Sancar; Chair, 2012 - 2014)