

Curriculum Vitae

Yana Cen, Ph.D.

Department of Medicinal Chemistry
Virginia Commonwealth University
800 E Leigh Street, Suite 212
Richmond, VA 23219
Tel: (804)828-7405
Email: ceny2@vcu.edu

Professional Appointment

07/2024-present Associate Professor, Department of Medicinal Chemistry
Virginia Commonwealth University
07/2019-06/2024 Assistant Professor, Department of Medicinal Chemistry
Virginia Commonwealth University
03/2014-06/2019 Assistant Professor, Department of Pharmaceutical Sciences-Vermont
Albany College of Pharmacy and Health Sciences
07/2012-02/2014 Research Scientist II, Department of Pharmacology & Toxicology
University of Texas Medical Branch
05/2011-06/2012 Instructor, Department of Pharmacology, Weill Medical College of Cornell
University

Education

09/2001-05/2006 Ph.D. in Organic Chemistry, Michigan State University, East Lansing, MI
09/1998-07/2001 M.S. in Organic Chemistry, Beijing Normal University, Beijing, China
09/1994-07/1998 B.S. in Chemistry with Honors, Beijing Normal University, Beijing, China

Research Experiences

07/2019-present *Department of Medicinal Chemistry, Virginia Commonwealth University*
➤ Design and Synthesis of Chemical Probes for Epigenetic Modification Enzymes (Sirtuins, KDM)
➤ Targeting NAD⁺ metabolism for Drug Discovery
➤ Development of Chemical Tools to Study DNA Modifications

03/2014-06/2019 *Department of Pharmaceutical Sciences-Vermont, Albany College of Pharmacy and Health Sciences*
Assistant Professor
➤ Design and Development of Chemical Probes for Epigenetic Modification Enzymes
➤ Investigation of mammalian NAD⁺ metabolism
➤ Synthesis of Novel Probes for Mammalian Nucleobase Transporters

07/2012-02/2014 *Department of Pharmacology & Toxicology, University of Texas Medical Branch*
Research Scientist II
➤ Oligonucleotides Synthesis and Characterization
➤ Development of Antiviral and Antitumor Nucleoside Analogs

- 01/2006-06-2012 *Department of Pharmacology, Weill Medical College of Cornell University*
 Postdoctoral Associate and Instructor with Dr. Anthony Sauve
- Design and Synthesis of ADP-ribosyltransferase Inhibitors
 - Enzymology of NAD⁺-dependent Histone Deacetylase (Sirtuins)
 - Kinetic Isotope Effects of NAD⁺-dependent Histone Deacetylase
 - NAD⁺ Metabolism in Regulating Biological Functions
 - Development of Novel Antibiotics by Targeting Bacterial Nicotinamidases
- 09/2001-12/2005 *Department of Chemistry, Michigan State University*
 Graduate Research Assistant with Dr. Peter J. Wagner
- Structural Effects on the Behavior of Photo-induced Ketone Biradicals
- 09/1998-07/2001 *Department of Chemistry, Beijing Normal University*
 Graduate Research Assistant with Dr. Cong Zhang
- Studies on Photo-induced Intramolecular Arene Olefin *meta*-Cycloaddition
- 09/1997-06/1998 *Department of Chemistry, Beijing Normal University*
 Undergraduate Thesis Research with Dr. Cong Zhang
- Regio- and Stereoselectivity of Photo-induced Intramolecular Arene Olefin *meta*-Cycloaddition

Teaching Experience

VCU Teaching Experience

- 2023-present MEDC556 (Fundamentals of Drug Discovery II)
 2022-present MEDC591-001 (Topics in Physical and Analytical Chemistry)
 2022-present MEDC591-002 (Topics in Organic Chemistry and Biochemistry)
 2021-present PHAR619 (Women's Health and Bone)
 2020-present MEDC310 (Medicinal Chemistry and Drug Design)
 2020-present MEDC691 (Special Topics-Chemical Biology)
 2019-present PHAR 534 (Foundations III)
 2019-present MEDC527 (Basic Pharmaceutical Principles for the Practicing Pharmacist)
 (course coordinator starting in 2021)
 2019-present MEDC555 (Fundamentals of Drug Discovery I)
 2019-present MEDC533 (Pharmacognosy)

ACPHS Teaching Experience

- 2016-2019 PSC756 (Chemical Biology)
 2015-2018 PSC631 (Foundations of Pharmaceutical Sciences)
 2015-2019 PSC451 (Scientific Literature Evaluation)
 2015-2018 PHM718/719 (Independent Study)
 2014-2018 PSC311 (Biochemistry)

Teaching Experience Prior to ACPHS

- 2001-2005 Survey of Organic Chemistry, Organic Chemistry I and II, Advanced Organic Chemistry (graduate level)
 Department of Chemistry, Michigan State University
 Teaching Assistant (recitations)

1999-2000 Organic Chemistry Laboratory
 Department of Chemistry, Beijing Normal University
 Teaching Assistant (laboratory)

Honors and Awards

2024 Bertha Rolfe Teacher of the Year Award (VCU School of Pharmacy)
 2023 Blick Scholar (VCU)
 2022 Emerging Faculty Scholar Award (VCU School of Pharmacy)
 2021 Ralph E. Powe Junior Faculty Enhancement Award (ORAU)
 2018 2017 Albany College of Pharmacy and Health Sciences Researcher of the
 Year (ACPHS)
 2016 Blythe Research Award (ACPHS)
 2012 Keystone Symposium Scholarship
 2005 Harold Hart Endowed Fellowship in the Chemical Science (MSU)
 2005 Educational Merit Fellowship (MSU)
 1999 Distinguished Graduate Student Fellowship (BNU)
 1998 Excellent Undergraduate Student of Beijing
 1998 Liyun Scholarship (BNU)
 1996-1998 Sanhao Scholarship (BNU)
 1995-1998 Distinguished Undergraduate Student Fellowship (BNU)

Professional Memberships

2015-present American Heart Association
 2015-present American Association of Pharmaceutical Scientists
 2014-present American Association of Colleges of Pharmacy
 2014-2019 Vermont Cancer Center
 2010-present The New York Academy of Science
 2009-present Sigma Xi, the Scientific Research Society
 2007-present American Association for the Advancement of Science
 2001-present American Chemical Society

Services

Professional Service

2024	Proposal Reviewer	<i>NSF CREST Panel</i>
2024	Proposal Reviewer	<i>NIH ZNS1 SRB Study Section</i>
2023-present	Review Editor	<i>Frontiers in Molecular Biosciences</i>
2023	Proposal Reviewer	<i>NIH CBP Study Section</i>
2023	Proposal Reviewer	<i>NIH ZRG1 MBBC-D 55 Study Section</i>
2022	Proposal Reviewer	<i>NIH ZRG1 BCMB-G 10 Study Section</i>
2022	Proposal Reviewer	<i>Israel Science Foundation</i>
2019-2021	Proposal Reviewer	<i>Vermont Biomedical Research Network</i>
2020-present	Proposal Reviewer	<i>BARD-The US-Israel Agricultural Research & Development Fund</i>
2019, 2024	Proposal Reviewer	<i>Johnson Cancer Research Center-Kansas</i>

		<i>State University</i>
2019	Early Career Reviewer	<i>NIH SBCA Study Section</i>
2018, 2022	Poster Judge	<i>Gordon Research Conference</i>
2018	Proposal Reviewer	<i>Vermont Genetics Network</i>
2018-2019	Faculty Mentor	<i>Vermont Genetics Network Undergraduate Student Summer Research Program</i>
2017-2019	Poster Abstract Screener	<i>AAPS Annual Meeting and Exposition</i>
2015-2018	Faculty Mentor	<i>“Training Interns and Partnering for Success” program sponsored by the Lake Champlain Regional Chamber of Commerce</i>
2010-present	Journal Reviewer	<i>PLoS Computational Biology Bioorganic & Medicinal Chemistry European Journal of Medicinal Chemistry Molecular and Cellular Endocrinology BBA-Proteins & Proteomics Journal of Pharmacy and Pharmacology Molecular Diversity Beilstein Journal of Organic Chemistry Current Topics in Medicinal Chemistry Scientific Report ACS Chemical Biology PLoS One Epigenetics Molecules Biomolecules ChemBioChem ChemMedChem Chemistry and Biodiversity Cancers Frontiers in Immunology Frontiers in Medicine Current Opinion in Chemical Biology Clinical and Translational Medicine International Journal of Molecular Sciences Life Nutrients Frontiers in Molecular Biosciences European Journal of Organic Chemistry Journal of International Medical Research Journal of Physiology and Biochemistry Biochemistry Journal of Agricultural and Food Chemistry Journal of Medicinal Chemistry</i>
2009-2010	Symposium Organizer	<i>The New York Academy of Science, Chemical Biology Discussion Group</i>

VCU Service

2023-present 2023	Member Member	Faculty Workload Task Force Associate Dean of Student Success Search Committee
2022-present 2022 2020-2021	Member Member Member	Promotion & Tenure Guideline Committee Faculty Search Committee (Internal Medicine) Faculty Search Committee (Med Chem and Structural Biology)
2020-2022 2020-present 2022	Member Exam Chair Chair	ACPE Self-study Subcommittee Dean's Representative on Oral Exams Research and Career Day Poster Judging
2020-2021 2020-2021 2020-present 2020-present 2019-present 2021-present 2019-2021 2019-present	Member Member Member Member Interviewer Vice Chair Member Member	Research and Career Day Poster Judging Scientific Administrative Review Committee Outcomes and Assessment Committee Academic Performance Committee PharmD Admission Interviews Graduate Affairs Committee Graduate Affairs Committee Next Generation Pharmacists Coalition
ACPHS Service		
2018-2019 2018-2019 2017-2019 2015-2019	Member Member Member Member	Research Committee College Curriculum Committee Institution Lab Safety Committee Graduate Faculty Review and Appointment Committee
2015-2019 2015-2019 2015-2019 2015-2016 2015-2016 2015-2016 2016-2019 2015-2016 2015	Mentor Interviewer Reviewer Member Member Secondary Writer Member Consultant Member	Student Summer Research Program PharmD Admission Committee Graduate Admission Committee Academic Standing Appeals Committee Medicinal Chemistry Faculty Search Committee ACPE Self-study Pharmacy Curriculum Committee Pharmacy Curriculum Committee Vermont College Graduates Recruiting Special Group
2015 2015	Member Member	Academic Programming Focus Group Pathophysiology/Immunology Faculty Search Committee
2014-2019 2014-2015 2014	Advisor Member Reviewer	Faculty Advisor to PharmD Students Medicinal Chemistry Faculty Search Committee Scholarship of Discovery Intramural Research Grants Program

Graduate Thesis/Dissertation Committee

1.	Dickson Donu (PhD)	thesis advisor: Yana Cen	2021-present
2.	Rosalie Hoyle (PhD)	thesis advisor: Jiong Li/Yana Cen	2019-present
3.	Daniel Mongeluzi (MS)	thesis advisor: Yana Cen	2019-2021
	<i>"Development of SAM-based Chemical Probes for Methyltransferases"</i>		
4.	Ally Thompson (PhD)	thesis advisor: Umesh Desai	2024-present

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| 5. | Lamya Alghanim (PhD) | thesis advisor: Martin Safo/Yan Zhang | 2023-present |
| 6. | Nichollette St. Martin (PhD) | thesis advisor: Keith Ellis | 2023-present |
| 7. | Rachael Flammia (PhD) | thesis advisor: Yan Zhang | 2023-present |
| 8. | Rawan Fayyad (PhD) | thesis advisor: Umesh Desai | 2023-present |
| 9. | Sara Walters (PhD) | thesis advisor: Brian Fuglestad | 2022-present |
| 10. | Rachel Joshi (PhD) | thesis advisor: Glen Kellogg | 2022-present |
| 11. | Savannah Biby (PhD) | thesis advisor: Shijun Zhang | 2021-present |
| 12. | Ahmed Alghamdi (MS) | thesis advisor: Martin Safo | 2021-2024 |
| | <i>“Utilizing Hemoglobin Binding Kinetics and X-ray Crystallography in Sickle Cell Disease Drug Development”</i> | | |
| 13. | Mona Alkhairi (PhD) | thesis advisor: Martin Safo | 2021-2024 |
| | <i>“Developing Novel Antiviral Agents: Targeting the N-Terminal Domain of SARS-CoV-2 Nucleocapsid Protein with Small Molecule Inhibitors”</i> | | |
| 14. | Samuel Holmes (PhD) | thesis advisor: Umesh Desai | 2020-2023 |
| | <i>“Characterizing 3-O-Sulfation-Induced Novel Compact Topologies in Heparan Sulfate and Their Interactions with Proteins”</i> | | |
| 15. | Celsey Stahlman (PhD) | thesis advisor: Yan Zhang | 2020-2023 |
| | <i>“Systematic Structure-Activity Relationship Study of Nalfurafine Towards Treatments for Substance Use Disorders and Pain Management”</i> | | |
| 16. | Noah Herrington (PhD) | thesis advisor: Glen Kellogg | 2020-2022 |
| | <i>“Structure-Based Drug Discovery and Development of Protein Structure Prediction Tools Using an Empirical Force Field”</i> | | |
| 17. | Pornprom Klongkumnuankarn | thesis advisor: Yan Zhang | 2019-2020 |
| | <i>“Design, Synthesis, and Biological Evaluation of Mu Opioid Receptor Selective Antagonists Bearing Pyrazole and Imidazole Side Chains”</i> | | |
| 18. | Machayla Donovan (MS) | thesis advisor: Christopher Cioffi | 2018-2019 |
| | <i>“Synthesis of Nonretinoid Inhibitors of RPE65 for the Potential Treatment of Dry Age-related Macular Degeneration and Stargardt Disease”</i> | | |
| 19. | Juliet Obi (MS) | thesis advisor: Karen Glass | 2018-2019 |
| | <i>“Molecular Mechanism(s) of Di-acetyllysine Recognition by the BRPF1 Bromodomain”</i> | | |
| 20. | Chiara Evans (MS) | thesis advisor: Karen Glass | 2016-2018 |
| | <i>“Coordination of Di-acetylated Histone Ligands by the ATAD2 Bromodomain”</i> | | |
| 21. | Jonathan Lloyd (MS) | thesis advisor: Karen Glass | 2016-2017 |
| | <i>“Molecular Mechanism of Di-acetyllysine Recognition by the ATAD2B Bromodomain”</i> | | |
| 22. | Shriya Mathur (MS) | thesis advisor: Martha Hass | 2014-2015 |
| | <i>“Synthesis and Evaluation of Co-drugs Derived from Methotrexate and Ibuprofen for the Treatment of Psoriasis”</i> | | |

Publications

Prior to VCU

Peer-reviewed Journal Articles

1. Zhang, C.; **Cen, Y.**; Sun, Z.; Shen, X.; Deng, Z., "Synthesis of Sterically Hindered Enantiopure (1*S*, 2*S*, 3*R*, 5*R*)-Neoisopinocampheyl Aryl Ethers by the Mitsunobu Reactions", *Synthetic Communications*, **2002**, 32, 3127-3135.
2. Fulco, M.; **Cen, Y.**; Zhao, P.; Hoffman, E. P.; McBurney, M. W.; Sauve, A. A.; Sartorelli, V., "Glucose Restriction Inhibits Skeletal Myoblast Differentiation by Activating SirT1 through AMPK-Mediated Regulation of Namp1", *Developmental Cell*, **2008**, 14, 661-673.
3. French, J.; **Cen, Y. (co-first author)**; Sauve, A. A., "*Plasmodium falciparum* Sir2 is an NAD⁺-dependent Deacetylase and an Acetyllysine-dependent and Acetyllysine independent NAD⁺ Glycohydrolase", *Biochemistry*, **2008**, 47, 10227-10239.
4. **Cen, Y.**; Sauve, A. A., "Diastereocontrolled Electrophilic Fluorination of 2'-Deoxyribonolactone: Syntheses of All Corresponding 2-Deoxy-2-fluoro-lactones and 2'-Deoxy-2'-fluoro-NAD⁺s", *Journal of Organic Chemistry*, Featured Article, **2009**, 74, 5779-5789.
5. Frizzell, K. M.; Gamble, M. J.; Berrocal, J. G.; Zhang, T.; Krishnakumar, R.; **Cen, Y.**; Sauve, A. A.; Kraus, W. L., "Global Analysis of Transcription Regulation by Poly(ADP-ribose) Polymerase-1 and Poly(ADP-ribose) Glycohydrolase in MCF-7 Human Breast Cancer Cells", *Journal of Biological Chemistry*, **2009**, 284, 33926-33938.
6. **Cen, Y.**, "Sirtuins Inhibitors: The Approach to Affinity and Selectivity", *Biochimica et Biophysica Acta (BBA)-Proteins & Proteomics*, **2010**, 1804, 1635-1644.
7. **Cen, Y.**; Sauve, A. A., "Efficient Syntheses of Clofarabine and Gemcitabine from 2-Deoxyribonolactone", *Nucleosides, Nucleotides and Nucleic Acids*, **2010**, 29, 113-122.
8. **Cen, Y.**; Sauve, A. A., "Transition State of ADP-ribosylation of Acetyllysine Catalyzed by *Archaoglobus fulgidus* Sir2 Determined by Kinetic Isotope Effects and Computational Approaches", *Journal of the American Chemical Society*, **2010**, 132, 12286-12298.
9. French, J. B.; **Cen, Y.**; Sauve, A. A.; Ealick, S. E., "High-Resolution Crystal Structures of *Streptococcus pneumoniae* Nicotinamidase with Trapped Intermediates Provide Insights into the Catalytic Mechanism and Inhibition by Aldehyde", *Biochemistry*, **2010**, 49, 8803-8812.
10. French, J. B.; **Cen, Y.**; Vrablik, T. L.; Xu, P.; Allen, E.; Hanna-Rose, W.; Sauve, A. A., "Characterization of Nicotinamidases: Steady State Kinetic Parameters, Classwide Inhibition by Nicotinaldehydes, and Catalytic mechanism", *Biochemistry*, **2010**, 49, 10421-10439.
11. **Cen, Y.**; Falco, J. N.; Xu, P.; Youn, D. Y.; Sauve, A. A., "Mechanism-based Affinity Capture of Sirtuins", *Organic & Biomolecular Chemistry*, **2011**, 9, 987-993.
12. Bai, P.; Canto, C.; Oudart, H.; Brunyánszki, A.; **Cen, Y.**; Thomas, C.; Yamamoto, H.; Huber, A.; Kiss, B.; Houtkooper, R. H.; Schoonjans, K.; Schreiber, V.; Sauve, A. A.; Meinissier-de Murcia, J.; Auwerx, J., "PARP-1 Inhibition Increases Mitochondrial Metabolism through SIRT1 Activation", *Cell metabolism*, **2011**, 13, 461-468.
13. Bai, P.; Canto, C.; Brunyánszki, A.; Huber, A.; Szántó, M.; **Cen, Y.**; Yamamoto, H.; Houten, S. M.; Kiss, B.; Oudart, H.; Gergely, P.; Meinissier-de Murcia, J.; Schreiber, V.; Sauve, A. A.; Auwerx, J., "PARP-2 Regulates SIRT1 Expression and Whole-Body Energy Expenditure", *Cell metabolism*, **2011**, 13, 450-460.
14. **Cen, Y.**; Youn, D. Y.; Sauve, A. A., "Advances in Characterization of Human Sirtuin Isoforms: Chemistries, Targets and Therapeutic Applications", *Current Medicinal Chemistry*, **2011**, 18, 1919-1935.

15. Cantó, C.; Houtkooper, R. H.; Pirinen, E.; Youn, D. Y.; Oosterveer, M. H.; **Cen, Y.**; Fernandez-Marcos, P. J.; Yamamoto, H.; Andreux, P. A.; Cettour-Rose, P.; Gademann, K.; Rinsch, C.; Schoonjans, K.; Sauve, A. A.; Auwerx, J., "The NAD⁺ Precursor Nicotinamide Riboside Enhances Oxidative Metabolism and Protects against High-Fat Diet-Induced Obesity", *Cell Metabolism*, **2012**, *15*, 838-847.
16. Laurent, G.; de Boer, V. V.; Finley, L. W.; Sweeney, M.; Lu, H.; Schug, T. T.; **Cen, Y.**; Jeong, S. M.; Sauve, A. A.; Haigis, M. C., "SIRT4 Represses Peroxisome Proliferator-activated Receptor α Activity to Suppress Hepatic Fat Oxidation", *Molecular and Cellular Biology*, **2013**, *33*, 4552-4561.
17. Kraus, D.; Yang, Q.; Kong, D.; Banks, A. S.; Zhang, L.; Rodgers, J. T.; Pirinen, E.; Pulinilkunnil, T. C.; Gong, F.; Wang, Y. C.; **Cen, Y.**; Sauve, A. A.; Asara, J. M.; Peroni, O. D.; Monia, B. P.; Bhanot, S.; Alhonen, L.; Puigserver, P.; Kahn, B. B., "Nicotinamide N-methyltransferase Knockdown Protects against Diet-induced Obesity", *Nature*, **2014**, *508*, 258-262.
18. North, B. J.; Rosenberg, M. A.; Jeganathan, K. B.; Hafner, A. V.; Michan, S.; Dai, J.; Baker, D. J.; **Cen, Y.**; Wu, L. E.; Sauve, A. A.; van Deursen, J. M.; Rosenzweig, A.; Sinclair, D. A., "SIRT2 Induces the Checkpoint Kinase BubR1 to Increase Lifespan", *The EMBO Journal*, **2014**, *33*, 1438-1453.
19. Wood, M.; **Cen, Y.***, "Facile Synthesis of NaMN, NaAD and Derivatives", *Annals of Pharmacology & Pharmaceutics*, **2016**, *1*, 1007.
20. Subramaniam, R.; Mathew, I.; Jagadeesan, R.; **Cen, Y.**; Balaz, S., "Scalable Synthesis and Purification of Acetylated Phosphatidyl Choline Headgroup", *Organic Process Research & Development*, **2017**, *21*, 177-181.
21. Wood, M.; Rymarchyk, S.; Zheng, S.; **Cen, Y.***, "Trichostatin A inhibits deacetylation of histone H3 and p53 by SIRT6", *Archives of Biochemistry and Biophysics*, **2018**, *638*, 8-17.
22. Graham, E.; Rymarchyk, S.; Wood, M.; **Cen, Y.***, "Development of Activity-Based Chemical Probes for Human Sirtuins", *ACS Chemical Biology*, **2018**, *13*, 782-792.
23. Tran, A.; Yokose, R.; **Cen, Y.***, "Chemo-enzymatic Synthesis of Isotopically Labeled Nicotinamide Riboside", *Organic and Biomolecular Chemistry*, **2018**, *16*, 3662-3671.
24. Subranabuam, R.; Lynch, S.; **Cen, Y.**; Balaz, S., "Polarity of Hydrated Phosphatidylcholine Headgroups", *Langmuir*, **2019**, *35*, 8460-8471.

After Coming to VCU

Peer-reviewed Journal Articles

25. Zheng, S.; Wohlfahrt, J.; Cohen, I.; **Cen, Y.***, "Methods for Studying Human Sirtuins with Activity-based Chemical Probes", *Methods in Enzymology*, **2020**, *633*, 251-269.
26. Carraway, H.; Malkaram, S.; **Cen, Y.**; Fan, J.; Ali, H.; Abd Elmageed, Z.; Buttolph, T.; Shatnawi, A.; Denvir, J.; Primerano, D.; Fandy, T., "Activation of SIRT6 by DNA hypomethylating agents and clinical consequences on combination therapy", *Scientific Reports*, **2020**, *10*, 10325.
27. Hoyle, R.; Wang, H.; **Cen, Y.**; Zhang, Y.; Li, J., "IOX1 Suppresses Wnt Target Gene Transcription and Colorectal Cancer Tumorigenesis Through Inhibition of KDM3", *Molecular Cancer Therapeutics*, **2021**, *20*, 191-202.
28. Curry, A.; Barton, E.; Kang, W.; Mongeluzi, D.; **Cen, Y.***, "Development of Second

- Generation Activity-Based Chemical Probes for Sirtuins”, *Molecules*, **2021**, *26*, 11.
29. Rymarchyk, S.; Kang, W.; Cen, Y.*, “Substrate-dependent Sensitivity of SIRT1 to Nicotinamide Inhibition”, *Biomolecules*, **2021**, *11*, 312.
 30. Curry, A.; White, D.; Donu, D.; Cen, Y.*, “Human Sirtuin Regulators: the Success Stories”, *Frontiers in Physiology*, **2021**, Oct. 21, <https://doi.org/10.3389/fphys.2021.752117>.
 31. Curry, A.; Cohen, I.; Zheng, S.; Wohlfahrt, J.; White, D.; Donu, D.; Cen, Y.*, “Profiling Sirtuin Activity Using Copper-free Click Chemistry”, *Bioorganic Chemistry*, **2021**, *117*, 105413.
 32. Curry, A.; White, D.; Cen, Y.*, “Small Molecule Regulators Targeting NAD⁺ Biosynthetic Enzymes”, *Current Medicinal Chemistry*, **2022**, *10*, 1718.
 33. White, D. S.; Mongeluzi, D.; Curry, A. M.; Donu, D.; Cen, Y.*, “Facile Synthesis of Photoactivatable Adenosine Analogs”, *RSC Advances*, **2022**, *12*, 2219.
 34. Donu, D.; Sharma, C.; Cen, Y.*, “*Plasmodium falciparum* Nicotinamidase as A Novel Antimalarial Target”, *Biomolecules*, **2022**, *12*, 1109.
 35. Sharma, C.; Donu, D.; Cen, Y.*, “Emerging Role of Nicotinamide Riboside in Health and Diseases”, *Nutrients*, **2022**, *14*, 3889.
 36. Szymanski, M.; Karłowicz, A.; Herrmann, G.; Cen, Y.*; Yin, W., “Human EXOG possesses strong AP hydrolysis activity – implication on mitochondrial DNA base excision repair”, *Journal of the American Chemical Society*, **2022**, *144*, 23543-23550.
 37. Kellogg, G. E.; Cen, Y.; Dukat, M.; Ellis, K. C.; Guo, Y.; Li, J.; May, A. E.; Safo, M. K.; Zhang, S.; Zhang, Y.; Desai, U.; “Merging Cultures and Disciplines to Create a Drug Discovery Ecosystem at Virginia Commonwealth University: Medicinal Chemistry, Structural Biology, Molecular and Behavioral Pharmacology and Computational Chemistry”, *SLAS Discovery*, **2023**, *28*, 255-269.
 38. Sharma, C.; Donu, D.; Curry, A.; Barton, E.; Cen, Y.*, “Multifunctional Activity-based Chemical Probes for Sirtuins”, *RSC Advances*, **2023**, *13*, 11771-11781.
 39. Tran, A.; Gao, S.; Shek, R.; Zheng, S.; Cen, Y.*; French, J. B.*, “Dual-function Probes to Tag, Isolate and Identify Nucleobase-binding Proteins” (January 19, 2023), available at SSRN: <https://ssrn.com/abstract=4329400> or <http://dx.doi.org/10.2139/ssrn.4329400>.
 40. Curry, A.; Rymarchyk, S.; Herrington, N.; Donu, D.; Kellogg, G.; Cen, Y.*, “Nicotinamide Riboside Activates SIRT5 Deacetylation”, *The FEBS Journal*, **2023**, *290*, 4762-4776.
 41. Kang, W.; Hamza, A.; Curry, A. M.; Korade, E.; Donu, D.; Cen, Y.*, “Activation of SIRT6 Deacetylation by DNA Strand Breaks”, *ACS Omega*, **2023**, *8*, 41310-41320.
 42. Sharma, C.; Hamza, A.; Boyle, E.; Donu, D.; Cen, Y.*, “Post-translational Modifications and Diabetes”, *Biomolecules*, **2024**, *14*, 310.
 43. White, D. S.; Sharma, C.; Cen, Y.*, “Synthesis and Characterization of 2'-Halogen Substituted NR Analogs”, *ACS Medicinal Chemistry Letters*, *under review*.
 44. Hamza, A.; Donu, D.; Curry, A.; Sharma, C.; Boyle, E.; Cen, Y.*, “Differential Regulation of SIRT5 Activity by Reduced Nicotinic Acid Riboside (NARH)”, *ACS Chemical Biology*, *under review*.
 45. Sharma, C.; Hamza, A.; Cen, Y.*, “Facile Synthesis of H-L-Photo-lysine and Its Genetic Incorporation into Proteins”, *in preparation*.

Book Chapter

1. **Cen, Y.** (2020). "Natural Products as CNS Stimulants" in Zhang, Y. (Eds.), *Pharmacognosy: Current Herbal Medications and Natural Product Chemistry for a PharmD Curriculum* (pp 291-300). Cognella Academic Publishing.

Presentations

(presenter is underlined)

1. **Cen, Y.**; Wagner, P. J., "Photocyclization of 2-Alkoxy-3-alkyl Phenyl Ketones", 230th *American Chemical Society National Meeting*, Washington D. C., August 2005 (poster presentation).
2. **Cen, Y.**; Sauve, A. A., "A Switch of Mechanism for NAD⁺ Hydrolysis at Alkaline pH Featuring Pronounced Primary ¹⁴C and α -Secondary ³H Kinetic Isotope Effects", *Gordon Research Conference Isotope in Biological and Chemical Science*, Ventura, CA, February 2008 (poster presentation).
3. **Cen, Y.**; Sauve, A. A., "Mechanism for NAD⁺ Hydrolysis at pH 9 as Determined by Kinetic Isotope Effects and Computational Analysis", *The 40th American Chemical Society Middle Atlantic Regional Meeting*, New York, NY, May 2008 (oral presentation).
4. Sauve, A. A.; **French, J.**; **Cen, Y.**, "*Plasmodium falciparum* Sir2 is a Nicotinamide Adenine Dinucleotide Dependent Deacetylase with Acetyllysine-dependent and Acetyllysine-independent Nicotinamide Adenine Dinucleotide Glycohydrolase Activities", *The 17th International Symposium on Poly(ADP-ribosyl)ation*, Tucson, Arizona, May 2008 (poster presentation).
5. **Sinclair, D.**; Hafner, A. V.; Gomes, A.; Liang, J.; **Cen, Y.**; Lanza, I.; Nair, S.; Sauve, A. A.; Rozenzweig, A., "Does Declining Mitochondrial NAD⁺ and Unscheduled Opening of Mitochondrial Transition Pore Promote Mammalian Aging?", *52nd ASH Annual Meeting and Exposition*, Orlando, FL, December 2010 (oral presentation).
6. **Falco, J.**; **Cen, Y.**; Youn, D.; Xu, P.; Sauve, A. A., "Mechanism-based Affinity Capture of Sirtuins", *22nd Enzyme Mechanisms Conference*, St. Pete Beach, FL, January 2011 (poster presentation).
7. **Cen, Y.**, "Transition State of ADP-ribosylation of Acetyllysine Catalyzed by *Archeaoglobus fulgidus* Sir2 Determined by Kinetic Isotope Effects and Computational Approaches", *NYAS Chemical Biology Discussion Group Year-End Meeting*, New York, NY, June 2011 (oral presentation).
8. **Cen, Y.**, "Transition State of ADP-ribosylation of Acetyllysine Catalyzed by *Plasmodium falciparum* and *Archeaoglobus fulgidus* Sirtuins", *Keystone Symposium Sirtuins in Metabolism, Aging and Disease*, Tahoe City, CA, February 2012 (oral presentation).
9. **Cen, Y.**, "Dissecting Sirtuin Transition State Using Kinetic Isotope Effects, SIRTainly!", *Albany College of Pharmacy and Health Sciences*, Colchester, VT, August 2013 (invited talk).
10. **Cen, Y.**; Zhang, K; Lin, H., "Activity-based Photoaffinity Labeling of Sirtuins", *Fifth Annual ACPHS Research Forum*, Albany, NY, January 2015 (poster presentation).
11. **Cen, Y.**, Zhang, K., Lin, H., "Development of Activity-based Chemical Probes for Sirtuin Profiling", *Epigenomics and Novel Therapeutic Targets Conference*, Boston, MA, May 2015 (oral presentation).
12. Graham, E.; Wood, M.; Rymarchyk, S.; Zhang, K.; Lin, H.; **Cen, Y.**, "Chemical Biology

- Approach for Sirtuin Profiling”, *Sixth Annual ACPHS Research Forum*, Albany, NY, January 2016 (oral presentation).
13. Graham, E.; Rymarchyk, S.; **Cen, Y.**, “Design and Synthesis of Activity-based Chemical Probes for Specific Sirtuin Isoforms”, *Sixth Annual ACPHS Research Forum*, Albany, NY, January 2016 (poster presentation).
 14. **Cen, Y.**, “Novel Probes for Sirtuins: a Chemical Biology Approach”, *University of Vermont*, Burlington, VT, April 2016 (invited talk).
 15. Graham, E.; Rymarchyk, S.; Wood, M.; Zhang, K.; Lin, H.; **Cen, Y.**, “Activity-based Sirtuin Profiling”, *Clinical and Translational Research Symposium*, University of Vermont, Burlington, VT, April 2016 (poster presentation).
 16. **Cen, Y.**; Wood, M.; Fandy, T., “DNA Hypomethylating Agents Modulate the Activity of the Histone Deacetylase Sirtuin 6 (SIRT6)”, *2016 AAPS Annual Meeting and Exposition*, Denver, CO, November 2016 (poster presentation).
 17. Tran, A.; French, J.; **Cen, Y.**, “Design and Synthesis of Dual-functional Nucleobase Analogs for Labeling Nucleobase Transporters”, *2016 ACPHS Student Summer Research Presentation and Award Ceremony*, Albany, NY, November 2016 (poster presentation).
 18. Tran, A.; Wood, M.; Yokose, R.; French, J. B.; **Cen, Y.**, “Novel Probes for Nucleobase Transporters”, *25th Enzyme Mechanism Conference*, St. Pete Beach, FL, January 2017 (poster presentation).
 19. Graham, E.; Rymarchyk, S.; Wood, M.; Zhang, K.; Lin, H.; **Cen, Y.**, “Novel Probes for Sirtuins: A Chemical Biology Approach”, *Seventh Annual ACPHS Research Forum*, Albany, NY, January 2017 (poster presentation).
 20. Tran, A.; Wood, M.; Yokose, R.; French, J. B.; **Cen, Y.**, “Novel Probes for Nucleobase Transporters”, *Seventh Annual ACPHS Research Forum*, Albany, NY, January 2017 (poster presentation).
 21. Tran, A.; French, J.; **Cen, Y.**, “Design and Synthesis of Dual-functional Nucleobase Analogs for Labeling Nucleobase Transporters”, *Seventh Annual ACPHS Research Forum*, Albany, NY, January 2017 (poster presentation).
 22. Tran, A.; Wood, M.; Yokose, R.; French, J. B.; **Cen, Y.**, “Novel Probes for Nucleobase Transporters”, *Gordon Research Conference on High Throughput Chemistry & Chemical Biology*, Andover, NH, June 2017 (poster presentation).
 23. **Cen, Y.**, “Activity-based Chemical Probes for Sirtuins”, *FASEB Science Research Conference Reversible Acetylation in Health and Disease*, Big Sky, MO, August 2017 (short talk).
 24. **Cen, Y.**; Wood, M.; Smith, P.; Fandy, T., “Comparing the Impact of Indirect DNA Methyltransferase Inhibitors on DNA Methylation and Histone Acetylation”, *2017 AAPS Annual Meeting and Exposition*, San Diego, CA, November 2017 (poster presentation).
 25. Zheng, S.; **Cen, Y.**, “Synthesis of Cyclooctyne Containing Probes for Labeling Sirtuins”, *2017 ACPHS Student Summer Research Presentation and Award Ceremony*, Albany, NY, November 2017 (poster presentation).
 26. Rymarchyk, S.; Kisaka, S.; Urman, L.; Ayres, R.; **Cen, Y.**, “Allosteric Activation of Human SIRT6”, *Eighth Annual ACPHS Research Forum*, Albany, NY, January 2018 (poster presentation).

27. Tran, A.; Shek, R.; Yokose, R.; Wood, M.; French, J.; **Cen, Y.**, "Identification and Characterization of Nucleobase Transporters", *Eighth Annual ACPHS Research Forum*, Albany, NY, January 2018 (poster presentation).
28. Zheng, S.; **Cen, Y.**, "Synthesis of Cyclooctyne Containing Probes for Labeling Sirtuins", *Eighth Annual ACPHS Research Forum*, Albany, NY, January 2018 (poster presentation).
29. **Cen, Y.**, "Novel Activity-Based Chemical Probes for Human Sirtuins", *Spring 2018 ACS National Meeting, Early Career Investigators in Biological Chemistry session*, New Orleans, LA, March 2018 (oral presentation).
30. **Cen, Y.**, "Sirtuin and NAD⁺: It Takes Two to Tango!", *Saint Michael's College*, Colchester, VT, April 2018 (invited talk).
31. Tran, A.; Yokose, R.; **Cen, Y.**, "Chemo-enzymatic Synthesis of Isotopically Labeled Nicotinamide Riboside", *Gordon Research Conference on Enzymes, Coenzymes and Metabolic Pathways*, Waterville Valley, NH, July 2018 (poster presentation).
32. **Cen, Y.**; ElMageed, Z.; Fandy, T., "The impact of DNA hypomethylating agents on the activity of nuclear sirtuins", *2018 ACCP Annual Meeting*, Bethesda, MD, September 2018 (poster presentation).
33. Zheng, S.; Ogbonna, C.; Ebhohon, W.; **Cen, Y.**, "Synthesis of Nicotinamide Riboside Derivatives", *2018 ACPHS Student Summer Research Presentation and Award Ceremony*, Albany, NY, November 2018 (poster presentation).
34. Tran, A.; Zheng, S.; Yokose, R.; Rymarchyk, S.; **Cen, Y.**, "Nicotinamide Riboside (NR), A Multifaceted Molecule", *26th Enzyme Mechanism Conference*, New Orleans, LA, January 2019 (poster presentation).
35. Zheng, S.; Ogbonna, C.; Ebhohon, W.; **Cen, Y.**, "Synthesis of Nicotinamide Riboside Derivatives", *Ninth Annual ACPHS Research Forum*, Albany, NY, January 2019 (poster presentation).
36. Tran, A.; Yokose, R.; **Cen, Y.**, "Chemo-enzymatic Synthesis of Isotopically Labeled Nicotinamide Riboside", *Ninth Annual ACPHS Research Forum*, Albany, NY, January 2019 (poster presentation).
37. **Cen, Y.**, "Sirtuin and NAD⁺: It Takes Two to Tango!", *University of Missouri*, Columbia, MO, January 2019 (invited talk).
38. **Cen, Y.**, "Sirtuin and NAD⁺: It Takes Two to Tango!", *Virginia Commonwealth University*, Richmond, VA, February 2019 (invited talk).
39. **Cen, Y.**, "Sirtuin and NAD⁺: It Takes Two to Tango!", *Wayne State University*, Detroit, MI, February 2019 (invited talk).
40. Tran, A.; Zheng, S.; Yokose, R.; Rymarchyk, S.; **Cen, Y.**, "Nicotinamide Riboside (NR), A Multifaceted Molecule", *Gordon Research Conference on High Throughput Chemistry & Chemical Biology*, New London, NH, June 2019 (poster presentation).
41. Barton, E.; Curry, A. M.; **Cen, Y.**, "Development of Second Generation Activity-based Probes for Human Sirtuins", *VCU School of Pharmacy PharmD-PhD Summer Research Fellow Presentation*, virtual, August 2020 (oral presentation).
42. **Cen, Y.**, "Chemical Biology Approach to Study Human Sirtuins", *University of Massachusetts-Dartmouth*, October 2020 (invited talk).
43. Barton, E.; Curry, A. M.; Kang, W.; Mongeluzi, D.; **Cen, Y.**, "Development of Second

- Generation Activity-based Chemical Probes for Sirtuins”, *VCU School of Pharmacy, Virtual Research and Career Day*, February 2021 (poster presentation).
44. Mongeluzi, D.; White, D. S.; **Cen, Y.**, “Progress Towards the Development of SAM-based Chemical Probes for the Profiling of Methyltransferase Activity”, *VCU School of Pharmacy, Virtual Research and Career Day*, February 2021 (poster presentation).
 45. Hoyle, R.; Wang, H.; **Cen, Y.**; Zhang, Y.; Li, J., “IOX1 Suppresses Wnt Target Gene Transcription and Colorectal Cancer Tumorigenesis Through Inhibition of KDM3 Histone Demethylases”, *VCU School of Pharmacy, Virtual Research and Career Day*, March 2021 (poster presentation).
 46. Curry, A.; Barton, E.; Kang, W.; Mongeluzi, D.; **Cen, Y.**, “Development of Diazirine-containing Activity-based Chemical Probes for Sirtuins”, *Spring 2021 ACS National Meeting*, virtual, April 2021 (poster presentation).
 47. Hoyle, R.; Wang, H.; **Cen, Y.**; Zhang, Y.; Li, J., “IOX1 Suppresses Wnt Target Gene Transcription and Colorectal Cancer Tumorigenesis Through Inhibition of KDM3 Histone Demethylases”, *VirginiaDrugDiscoveryRx Virtual Poster Session*, May 2021 (poster presentation).
 48. **Cen, Y.**, “Unlock the Secrets of Longevity Genes, SIRTainly!”, *Pharmaceutical Research and Drug Development (PharmD-2021)*, virtual, September 2021 (invited talk).
 49. **Cen, Y.**, “Small Molecule Approach to Study Longevity Proteins, SIRTainly!”, *University of Georgia, School of Pharmacy*, virtual, October 2021 (invited talk).
 50. Curry, A.; Rymarchyk, S.; Zheng, S.; **Cen, Y.**, “Differential Regulation of SIRT5 Activity by Small Molecules”, *27th Enzyme Mechanism Conference*, Tucson, AZ, January 2022 (poster presentation).
 51. Curry, A.; Cohen, I.; Zheng, S.; Wohlfahrt, J.; White, D. S.; Donu, D.; **Cen, Y.**, “Profiling Sirtuin Activity Using Copper-free Click Chemistry”, *Spring 2022 ACS National Meeting*, virtual, March 2022 (poster presentation).
 52. Kang, W.; Curry, A.; Korade, E.; **Cen, Y.**, “Allosteric Activation of Human SIRT6 by DNA Strand Breaks”, *Spring 2022 ACS National Meeting*, virtual, March 2022 (poster presentation).
 53. **Cen, Y.**, “Small Molecule Approach to Study Human Sirtuins”, *Virginia Commonwealth University, Department of Chemistry*, virtual, March 2022 (invited talk).
 54. Curry, A.; Cohen, I.; Zheng, S.; Wohlfahrt, J.; White, D. S.; Donu, D.; **Cen, Y.**, “Profiling Sirtuin Activity Using Copper-free Click Chemistry”, *VirginiaDrugDiscoveryRx Poster Session*, Richmond, VA, May 2022 (poster presentation).
 55. White, D. S.; Mongeluzi, D.; Curry, A. M.; Donu, D.; Cen, Y., “Facile Synthesis of Photoactivatable Adenosine Analogs”, *VirginiaDrugDiscoveryRx Poster Session*, Richmond, VA, May 2022 (poster presentation).
 56. **Cen, Y.**, “Small Molecule Approach to Study Human Sirtuins”, *Gordon Research Conference on Bioorganic Chemistry*, Andover, NH, June 2022 (invited talk).
 57. Curry, A.; Rymarchyk, S.; Herrington, N.; Donu, D.; Kellogg, G.; **Cen, Y.**, “Nicotinamide Riboside Activates SIRT5 Deacetylation”, *Gordon Research Conference on Enzymes, Coenzymes and Metabolic Pathways*, Waterville Valley, NH, July 2022 (poster presentation).
 58. Donu, D.; Sharma, C.; **Cen, Y.**, “*Plasmodium falciparum* Nicotinamidase as A Novel

- Antimalarial Target”, *Spring 2023 ACS National Meeting*, virtual, March 2023 (poster presentation).
59. **Cen, Y.**, “Differential Regulation of SIRT5 Activity by Nicotinamide Riboside”, *Gordon Research Conference on Nucleosides, Nucleotides and Oligonucleotides*, Newport, RI, June 2023 (invited talk).
 60. **Cen, Y.**, ““Differential regulation of SIRT5 activity by small molecules””, *2023 Southeastern Regional ACS Meeting*, Durham, NC, October 2023 (invited talk).
 61. **Sharma, C.**; Donu, D.; Curry, A. M.; Barton, E.; **Cen, Y.**, “Multifunctional Activity-based Chemical Probes for Sirtuins”, *VCU School of Pharmacy Research Day*, Richmond, VA, October 2023 (poster presentation).
 62. **Hamza, A.**; Kang, W.; Donu, D.; Curry, A. M.; Korade, E.; **Cen, Y.**, “Activation of SIRT6 Deacetylation by DNA Strand Breaks”, *VCU School of Pharmacy Research Day*, Richmond, VA, October 2023 (poster presentation).
 63. Curry, A. M.; Rymarchyk, S.; Herrington, N.; **Donu, D.**; Kellogg, G.; **Cen, Y.**, “Nicotinamide Riboside Activates SIRT5 Deacetylation”, *28th Enzyme Mechanism Conference*, Naples, FL, January 2024 (poster presentation).
 64. Hamza, A.; Kang, W.; Donu, D.; Curry, A. M.; Korade, E.; **Cen, Y.**, “Activation of SIRT6 Deacetylation by DNA Strand Breaks”, *28th Enzyme Mechanism Conference*, Naples, FL, January 2024 (poster presentation).
 65. **Donu, D.**; Boyle, E.; **Cen, Y.**, “Targeting *Plasmodium falciparum* Sir2 for the Development of Novel Antimalarials”, *VirginiaDrugDiscoveryRx2024*, Virginia Beach, VA, May 2024 (short talk).
 66. **Sharma, C.**; Hamza, A.; **Cen, Y.**, “Facile Synthesis of H-L-Photo-lysine and Its Genetic Incorporation into Proteins”, *VirginiaDrugDiscoveryRx2024*, Virginia Beach, VA, May 2024 ((poster presentation).
 67. **Cen, Y.**, “SIRT6 Activation by DNA Strand Breaks”, *Gordon Research Conference on Bioorganic Chemistry*, Andover, NH, June 2024 (short talk).

Patents

1. Sauve, A. A.; **Cen, Y.**, “Synthesis of Halogenated 2-Deoxy-lactones, 2'-Deoxy-nucleosides, and Derivatives Thereof”, Provisional U.S. Patent No. 61/222,424, July 1, 2009.
2. Sauve, A. A.; **Cen, Y.**, “Reagents and Methods for Sirtuin Capture”, Provisional U.S. Patent No. 61/345,970, May 18, 2010.
3. Sauve, A. A.; **Cen, Y.**, “Halogenated 2-Deoxy-lactones, 2'-Deoxy-nucleosides, and Derivatives Thereof”, International Patent Application No. PCT/US2010/040816, July 1, 2010.
4. Sauve, A. A.; **Cen, Y.**, “2-Fluorinated Riboses and Arabinoses and Methods of Use and Synthesis”, U.S. Patent Application No. 13/381,587, December 29, 2011.
5. Sauve, A. A.; **Cen, Y.**, “Reagents and Methods for Sirtuin Capture”, U.S. Patent Application No. 13/698,561, November 16, 2012.
6. Sauve, A. A.; **Cen, Y.**, “Reagents and Methods for Sirtuin Capture”, U.S. Patent No. 9,290,791, March 22, 2016.

7. Sauve, A. A.; **Cen, Y.**, “2-Fluorinated Riboses and Arabinoses and Methods of Use and Synthesis”, U.S. Patent No. 9,790,252, October 17, 2017.

Grants

Ongoing

1. **Cen, Yana** (PI)
05/01/2022-01/31/2026
1R01GM143176-01A1
NIH/NIGMS
“Small Molecule Approach to Activate Human SIRT5”
Amounts: \$1,454,952
2. **Cen, Yana** (PI)
09/01/2019-08/31/2025
CHE-1846785
NSF
“CAREER: Allosteric Activation of SIRT6 by DNA”
Amount: \$463,995

Completed

1. **Cen, Yana** (PI)
02/01/2023-01/31/2024
3R01GM143176-02S1
NIH/NIGMS
“Administrative Supplements for Equipment Purchases for NIGMS Awardees”
Amounts: \$199,933
2. Hass, Martha (PI); **Cen, Yana** (Co-I)
04/01/2020-08/31/2022
1R15GM123393
NIH/NIGMS
“Novel Probes for Sirtuins: A Chemical Biology Approach”
Amount: \$50,000
3. **Cen, Yana** (PI)
01/15/2020-07/31/2022
CCTR Endowment Fund, Virginia Commonwealth University
“Small Molecule Activator of Human SIRT5”
Amount: \$50,000
4. **Cen, Yana** (PI)
07/01/2020-06/30/2022
VCU Presidential Research Quest Fund
“Transition State Analysis of *Plasmodium falciparum* Sir2”
Amount: \$50,000
5. **Cen, Yana** (PI)
06/01/2021-05/31/2022
Ralph E. Powe Junior Faculty Enhancement Award, Oak Ridge Associated Universities

- “Targeted Protein Degradation Using Bifunctional Small Molecules”
Amount: \$10,000
6. **Cen, Yana** (PI)
06/30/2020-03/29/2022
Jeffress Trust Awards Program in Interdisciplinary Research
“Determining Enzyme Transition State Using Kinetic Isotope Effects and Computational Analysis”
Amount: \$104,500
7. **Cen, Yana** (PI)
(Dr. Yana Cen was replaced by Dr. Martha Hass as the PI of this grant upon her departure from ACPHS)
04/01/2017-06/28/2019
1R15GM123393
NIH/NIGMS
“Novel Probes for Sirtuins: A Chemical Biology Approach”
Amount: \$480,000
8. Stevens, Stanley (PI); **Cen, Yana** (Co-I)
05/01/2017-10/31/2020
7R21AA025183
NIH/NIAAA
“Role of Methylation in Ethanol-induced Microglial Activation”
Amount: \$467,368
9. **Cen, Yana** (PI)
02/01/2016-01/31/2018
Rudolph and Dorothy Blythe Research Award, Albany College of Pharmacy and Health Sciences
“Identification and Characterization of Nucleobase Transport Proteins”
Amount: \$26,000
10. **Cen, Yana** (PI)
05/23/2016-06/09/2017
Scholarship of Discovery Intramural Research Grant Program, Albany College of Pharmacy and Health Sciences
“Allosteric Activation of Human SIRT6”
Amount: \$5,000
11. **Cen, Yana** (PI)
06/01/2015-05/31/2016
Scholarship of Discovery Intramural Research Grant Program, Albany College of Pharmacy and Health Sciences
“Development of Activity-based Chemical Probes for Sirtuin Profiling”
Amount: \$5,000

Lab Personnel

Current Lab Members

Rasajna Madhusudhana	2023-present	1 st year PhD student
Dickson Donu	2021-present	4 th year PhD student
Rosalie Hoyle	2019-present	5 th year PhD student
Abu Hamza	2022-present	postdoctoral fellow
Chiranjeev Sharma	2021-present	postdoctoral fellow
Emily Boyle	2023-present	research technician
Sneha Gatuku	2024-present	honors summer undergraduate research fellow

Lab Alumni at VCU

Dawanna White	2019-2021	postdoctoral fellow (current: Assistant Professor at Hampton University)
Wenjia Kang	2020-2021	postdoctoral fellow (current: deceased)
Daniel Mongeluzi	2019-2021	MS student (current: scientist I at Frontage Lab)
Alyson Curry	2019-2021	research technician (current: PhD program in neurosciences at Wake Forest University)
Elizabeth Barton	2019-2020	PharmD research intern and summer research fellow
Jeankyong So	2019-2020	PharmD research intern
Pauline Tran	2019-2020	PharmD research intern
Orod Motevalli	2023	PharmD research intern (independent study)
Tamia Bryant	2019-2020	federal work study
Destiny Cryer	2021	undergraduate research intern
Harlean Bajwa	2021	undergraduate research intern
Evan Korade	2021	undergraduate research intern and independent study (current: technician at Glen Research)
Layne Talbott	2022	undergraduate research intern (current: graduate student at University of Florida)
Deepa Rao	2022	honors summer undergraduate research fellow
Kennedy Miranda	2023	undergraduate research intern (CHEM392)
Jenay Hutt	2023	honors summer undergraduate research fellow

Lab Alumni at ACPHS

Ian Cohen	2018-2019	research technician (current: EQUITAS Life Sciences, LLC)
Stacia Rymarchyk	2015-2018	research technician (current: researcher at Medigen, Inc)
Sarah Abdalla	2019	APPE research rotation (current: pharmacist at Edge Pharma, LLC)
Cameron Montgomery	2018-2019	PharmD research intern
Jaclyn Morasutti	2018	independent study
David Channell	2018	APPE research rotation (current: perfusionist at Keystone perfusion services)
Wilson Ebhohon	2018	APPE research Rotation
Chinomso Ogbonna	2018	APPE research Rotation
Rebecca Betts	2017-2018	PharmD research intern and research assistant
Michael Mandrino	2017-2018	PharmD research intern

Ashley Ten Eyck	2017-2018	PharmD research intern
Bao Ly	2017	independent study
Ryan Ayres	2017	APPE research rotation
Steven Kisaka	2017	APPE research rotation
Opoku Krapah	2017	PharmD research intern
Lawrence Urman	2017	federal work study and APPE research rotation
Song Zheng	2016-2019	ACPHS student summer research award and research assistant (current: clinical scientist at Luye Pharma USA Ltd)
Ai Tran	2016	ACPHS student summer research award and independent study
Ryota Yokose	2016	independent study
Elysian Graham	2015	summer volunteer and independent study (current: pharmacist at Asante Rogue Regional Medical Center)
Marci Wood	2014-2016	federal work study (current: ambulatory pharmacist clinician at The University of Vermont Medical Center)
Jessica Wohlfahrt	2018-2019	graduate research assistant (current: PhD student at University of South Florida)
Michael McLane	2016	graduate student research rotation
Sabrina Hardy	2018	VGN summer undergraduate research intern
Kenan Paliv	2017	high school research intern
Margaret Chase	2016-2017	high school research intern (current: MSAT scientist at Lonza)
Brendan Li	2016	high school research intern