

CURRICULUM VITAE

SONGON AN

EDUCATION

Ph.D. 2005 University of Minnesota - Twin Cities (Minneapolis, MN, USA), Biological Chemistry
M.S. 1999 Yonsei University (Seoul, South Korea), Organic Chemistry
B.S. 1997 Yonsei University (Seoul, South Korea), Chemistry

Experience in Higher Education

2018– present **University of Maryland Baltimore County, Baltimore, MD.**
Department of Chemistry and Biochemistry
Associate Professor, Biochemistry

2018– present **University of Maryland School of Medicine, Baltimore, MD.**
Marlene and Stewart Greenebaum Cancer Center
Program in Oncology,
Member of the Graduate Faculty, Biochemistry

2015 – present **University of Maryland Baltimore County, Baltimore, MD.**
Regular Member of the Graduate Faculty

2011– present **University of Maryland School of Medicine, Baltimore, MD.**
Department of Biochemistry and Molecular Biology
Graduate Program in Life Sciences (GPILS)
Member of the Graduate Faculty, Biochemistry

2011– 2018 **University of Maryland Baltimore County, Baltimore, MD.**
Department of Chemistry and Biochemistry
Assistant Professor, Biochemistry

2011– 2015 **University of Maryland Baltimore County, Baltimore, MD.**
Associate Member of the Graduate Faculty

2005 – 2011 **Pennsylvania State University, University Park, PA.**
Department of Chemistry
Postdoctoral Scholar, Biochemistry, Enzymology & Cell Biology

February 2002 **European Molecular Biology Laboratory, Grenoble, France.**
Visiting Graduate Research Assistant, Protein X-ray Crystallography

2000 – 2005 **University of Minnesota – Twin Cities, Minneapolis, MN.**
Department of Chemistry
Ph.D. Student, Biological Chemistry

- 1997 – 1999 **Yonsei University, Seoul, South Korea.**
Department of Chemistry
M.S. Student, Organic Chemistry
- Summer 1996 **Åbo Akademi University, Turku, Finland.**
Department of Paper Chemistry
International Undergraduate Research Assistant, Paper Chemistry
- 1993 – 1997 **Yonsei University, Seoul, South Korea.**
Department of Chemistry
B.S. Undergraduate Student, Chemistry

Experience in Other Than Higher Education

- 2002 – 2005 The Busan Ilbo (Local Newspaper, Busan, South Korea)
Guest Columnist

Honor Received

- 2021 Student Invited Lectureship by the Graduate Student Association, Graduate School – Protein Complex Assembly (PROCOMPAS), Technical University of Braunschweig, Germany (March 1, 2021)
- 2020 The 2020 Mid-Career Faculty Excellence Award, CNMS, UMBC (May 20, 2020)
- 2018 NIH/NCI R03 Award (Notice of Award: July 3, 2018)
- 2017 NIH/NIGMS R01 Award (Notice of Award: Dec 4, 2017)
- 2016 The 2016 AACR-Bayer Innovation and Discovery Award
- 2014 Student Invited Lectureship by the Graduate Student Association, Department of Biochemistry and Molecular Biology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD
- 2014 UMBC Summer Faculty Fellowship
- 2012 Semi-Finalist, The 2012 Damon Runyon-Rachleff Innovation Award
- 2012 UMBC Summer Faculty Fellowship
- 1998 Lotte Scholarship Foundation Fellowship, Seoul, South Korea
- 1995 Shell Pacific Enterprise Limited Korea Branch Fellowship, Seoul, South Korea

Research Support and/or Fellowships

- Dec. 2017 – Nov. 2023 \$1,444,888 (total cost), Source: **NIH R01-NIGMS**, “A multienzyme metabolic complex for glucose metabolism,” Role: P.I. (An)
- July 2018 – June 2020 \$127,137 (total cost), Source: **NIH R03-NCI**, “Functional contribution of metabolic complex to cancer cell metabolism,” Role: P.I. (An)
- July 2016 – June 2017 \$25,000 (direct cost), Source: **AACR-Bayer Innovation and Discovery Award**, “Cancer-specific metabolic complex for small molecule drug discovery,” Role: P.I. (An)
- Nov. 2013 – June 2014 \$1,000 (direct cost), Source: **UMBC-URAS**, “Development of a robust and unbiased computational algorithm for fluorescent cell image analysis,” Role: P.I. (An)

Summer 2014	\$6,000 (direct cost), Source: UMBC-Summer Faculty Fellowship , “Development of a high-content screening system to investigate the mechanisms of resveratrol action,” Role: P.I. (An)
July 2012 – June 2013	\$20,000 (direct cost), Source: UMBC-SRAIS , “Regulatory role of the purinosome in AMPK-mediated signaling pathways,” Role: P.I. (An)
Summer 2012	\$6,000 (direct cost), Source: UMBC-Summer Faculty Fellowship , “Regulatory role of the purinosome in AMPK-mediated signaling pathways,” Role: P.I. (An)

Mentoring Senior Research Scientists / Postdoctoral Scholars

Dr. Sonam Vinodkumar Jha, June 2023 – February 2024. Role: Co-Mentor

Dr. Deepika Jaiswal, June 2022 – November 2022. Role: Mentor

Dr. Krishna M. Chauhan, April 2019 – April 2020. Role: Mentor

Dr. Prakash Parajuli, June 2018 – Dec 2020. Role: Mentor

Dr. Minjoung Kyoung, March 2012 – August 2014. Role: Mentor

Mentoring Ph.D. Students

Bijaya B.K., Degree expected in 2028. Role: Advisor and Chair

Ashesh Sharma, Degree expected in 2026. Role: Advisor and Chair

Miji Jeon, Ph.D. Degree in Nov 2020. Role: Advisor and Chair

Danielle Schmitt, Ph.D. Degree in Nov 2017. Role: Advisor and Chair

Mentoring Master’s Students

Chen Yan, M.S. Degree in May 2022. Role: Advisor

Joseph Sparenberg, M.S. Degree in May 2019. Role: Advisor

Casey Kohnhorst, M.S. Degree in May 2015. Role: Advisor

Anand Sundaram, M.S. Degree in May 2015. Role: Advisor

Mentoring Post-Baccalaureate Researchers (*Underrepresented Minorities)

Rachel Boyd. Graduated from UMBC (January 2025 – present), Role: Research Mentor

*Augustine Obisesan. Graduated from UMBC (June 2024 – present), Role: Research Mentor

Joshua M. Camacho. Graduated from UMBC (January 2024 – May 2024), Role: Research Mentor

Alameen Yahya. Graduated from UMBC (January 2023 – March 2025), Role: Research Mentor

*Inayah Entzminger. Graduated from UMBC (January 2019 – July 2019), Role: Research Mentor

Mason Tebera. Graduated from UMBC (December 2018 – August 2019), Role: Research Mentor

Anna-Lena Keller. University of Tübingen, Germany (August 1, 2018 – October 1, 2018), Role: Research Mentor

International Mater Degree-level Summer Intern

Farhan Augustine. Graduated from UMBC (August 2017 – December 2017), Role: Research Mentor

*Nopondo Esemoto. Graduated from UMBC (June 2012 – May 2013), Role: Research Mentor

*Elizabeth Tamene. (January 2012 – May 2012), Role: Research Mentor

Mentoring Undergraduate Students (*Underrepresented Minorities)

Rachel Boyd. UMBC Undergraduate Research (June 2024 – December 2024), Role: Research Mentor

Joshua M. Camacho. UMBC Undergraduate Research (October 2023 – December 2023), Role: Research Mentor

Naafia Thangalvadi. UMBC Undergraduate Research (September 2022 – May 2024), Role: Research Mentor

*Elijah Mugabe. UMBC Undergraduate Research (September 2021 – May 2023), Role: Research Mentor

Songhyeon “Cassio” Chae. UMBC Undergraduate Research (September 2021 – May 2024), Role: Research Mentor

*Augustine Obisesan. UMBC Undergraduate Research (June 2021 – May 2024), Role: Research Mentor

*Avi M. Newman. UMBC Undergraduate Research (January 2020 – May 2023), Role: Research Mentor

Aaron A. Derby. UMBC Undergraduate Research (January 2020 – December 2020), Role: Research Mentor

Saiprasad Ravi. UMBC Undergraduate Research (December 2018 – May 2020), Role: Research Mentor

*Lauren Harris. UMBC Undergraduate Research (September 2017 – Feb 2018), Role: Research Mentor

Eunice Nam. Undergraduate Intern from University of Richmond, VA (Summer 2017), Role: Research Mentor

*Bailey Nance. UMBC Undergraduate Research (January 2017 – May 2018), Role: Research Mentor

Andrew Le. UMBC Undergraduate Research (August 2016 – May 2018), Role: Research Mentor

Farhan Augustine. UMBC Undergraduate Research (January 2016 – December 2016), Role: Research Mentor

Jasmine Chaudhary. UMBC Undergraduate Research (June 2015 – December 2015), Role: Research Mentor

Bao Tran “Rose” Luu. UMBC Undergraduate Research (May 2015 – May 2016), Role: Research Mentor

*Syrena Bracey. UMBC Undergraduate Research (March 2014 – May 2017), Role: Research Mentor

Gabriella Balaa. UMBC Undergraduate Research (March 2014 – December 2016), Role: Research Mentor

Quan “Sean” Dao. UMBC Undergraduate Research (March 2014 – August 2015), Role: Research Mentor

*Julio Ramirez. UMBC Undergraduate Research (January 2014 – May 2015), Role: Research Mentor and Advisor

Bobby Kwan. UMBC Undergraduate Research (June 2013 – July 2014), Role: Research Mentor

Songe Baek. UMBC Undergraduate Research (June 2012 – May 2013), Role: Research Mentor

*Angela Koomson. UMBC Undergraduate Research (June 2012 – May 2013), Role: Research Mentor

Sarah Russell. UMBC Undergraduate Research (December 2011 – May 2013), Role: Research Mentor

*Nopondo Esemoto. UMBC Undergraduate Research (September 2011 – May 2012), Role: Research Mentor

Mentoring High-School Students (*Underrepresented Minorities)

Nicholas Cui. HCPSS, High-School Research Intern (Summer 2024), Role: Research Mentor

Raaga Katta. HCPSS, High-School Research Intern (Summer 2024), Role: Research Mentor

Abihith Velumuri. HCPSS, High-School Research Intern (November 2022 – May 2023), Role: Research Mentor

*Angel Boardley. BCPSS, High-School Research Intern (September 2016 – December 2016), Role: Research Mentor

*Afia Osei-Ntansah. HCPSS, High-School Research Intern (September 2016 – December 2016), Role: Research Mentor

Christopher Sindall. HCPSS, High-School Research Intern (July 2014 – May 2015), Role: Research Mentor

Jasmine Chaudhary. HCPSS, High-School Research Intern (February 2014 – May 2015), Role: Research Mentor

PUBLICATIONS AND PRESENTATIONS

Publications

Peer-reviewed Scientific Articles (*Corresponding Authors, †Equal Contribution)

1. Hye-won Kang*, Luan Nguyen, **Songon An**, and Minjoung Kyoung* “Mechanistic insights into condensate formation of human liver-type phosphofructokinase by stochastic modeling approaches” *Scientific Reports* (2024) 14, 19011
2. Danielle L. Schmitt, Patricia Dranchak, Prakash Parajuli, Dvir Blivis, Ty Voss, Casey L. Kohnhorst, Minjoung Kyoung, James Inglese, and **Songon An*** “High-throughput screening identifies cell cycle-associated signaling cascades that regulate a multienzyme metabolic assembly in human cells” *PLoS One* (2023) 18, e0289707
3. Miji Jeon, Danielle L. Schmitt, Minjoung Kyoung, and **Songon An*** “Size-specific modulation of a multienzyme glucosome assembly during the cell cycle” *ACS Bio & Med Chem Au* (2023) 3, 5, 461-470
4. Miji Jeon, Krishna M. Chauhan, Gregory L. Szeto, Minjoung Kyoung, and **Songon An*** “Subcellular regulation of glucose metabolism through multienzyme glucosome assemblies by EGF-ERK1/2 signaling pathways” *J Biol Chem* (2022) 298, 101675
5. **Songon An***, Prakash Parajuli, Erin L. Kennedy, and Minjoung Kyoung* “Multi-dimensional fluorescence live-cell imaging for glucosome dynamics in living human cells” *Methods in Molecular Biology* (2022) 2487, 15-26
6. **Songon An***, Miji Jeon, Erin L. Kennedy, and Minjoung Kyoung* “Phase-separated condensates of metabolic complexes in living cells: purinosome and glucosome” *Methods in Enzymology* (2019) 628, 1-17
7. Danielle L. Schmitt, Anand Sundaram, Miji Jeon, Bao Tran Luu and **Songon An*** “Spatial alterations of de novo purine biosynthetic enzymes by Akt-independent PDK1 signaling pathways” *PLoS One* (2018) 13, e0195989
8. Miji Jeon, Hye-Won Kang*, and **Songon An*** “A mathematical modeling of the enzyme clustering in glucose metabolism” *Scientific Reports* (2018) 8, 2696
9. Danielle L. Schmitt and **Songon An*** “Spatial Organization of Metabolic Enzyme Complexes in Cells” *Biochemistry* (2017) 56, 3184-3196 (Cited by 146, As of September 2025)
10. Casey L. Kohnhorst†, Minjoung Kyoung†, Miji Jeon, Danielle L. Schmitt, Erin L. Kennedy, Julio Ramirez, Sarah J. Russell, Syrena M. Bracy, and **Songon An*** “Identification of a Multienzyme Metabolic Complex for Glucose Metabolism in Living Cells” *J Biol Chem* (2017) 292, 9191-9203 (Cited by 136, As of September 2025)
11. Danielle L. Schmitt, Yun-ju Cheng, Junyong Park, and **Songon An*** “Sequestration-mediated Downregulation of de novo Purine Biosynthesis by AMPK” *ACS Chem Biol* (2016) 11, 1917-1924
12. Casey L. Kohnhorst, Danielle L. Schmitt, Anand Sundaram, and **Songon An*** “Subcellular Functions of Proteins under Fluorescence Single-cell Microscopy” *Biochim Biophys Acta - Proteins and Proteomics* (2016) 1864, 77-84
13. Minjoung Kyoung, Sarah J. Russell, Casey L. Kohnhorst, Nopondo N. Esemoto, and **Songon An*** “Dynamic Architecture of the Purinosome Involved in Human de novo Purine Biosynthesis” *Biochemistry* (2015) 54, 870-880
14. Bradley W. Davis, William M. Aumiller, Negar Hashemian, **Songon An**, Antonios Armaou, and Christine D. Keating “Colocalization and Sequential Enzyme Activity in Aqueous Biphasic Systems: Experiments and Modeling” *Biophysical J* (2015) 109, 2182-2194
15. Jarrod B French†, Hong Zhao†, **Songon An**, Sherry Niessen, Yijun Deng, Benjamin F Cravatt and Stephen J Benkovic “The Hsp70/Hsp90 Chaperone Machinery is involved in the Assembly of the Purinosome” *Proc Natl Acad Sci USA* (2013) 110, 2528-2533

16. Yijun Deng, Jongsik Gam, Jarrod B French, Hong Zhao, **Songon An** and Stephen J Benkovic “Mapping Protein-Protein Proximity in the Purinosome” *J Biol Chem* (2012) 287, 36201-36207
17. Florence Verrier[†], **Songon An**[†], Ann M Ferrie, Haiyan Sun, Minjoung Kyoung, Huayun Deng, Ye Fang and Stephen J Benkovic “GPCRs regulate the assembly of a multienzyme complex for purine biosynthesis” *Nature Chem Biol* (2011) 7, 909-915
18. Byung Ran So, **Songon An**, Sandeep Kumar, Mom Das, Daniel A Turner, Christopher M Hadad and Karin Musier-Forsyth “Substrate-mediated fidelity mechanism ensures accurate decoding of proline codons” *J Biol Chem* (2011) 286, 31810-31820
19. **Songon An**, Yijun Deng, John W Tomsho, Minjoung Kyoung and Stephen J Benkovic “Microtubule-assisted Mechanism for Functional Metabolic Macromolecular Complex Formation” *Proc Natl Acad Sci USA* (2010) 107, 12872-12876 (Cited by 125, As of September 2025)
20. **Songon An**, Minjoung Kyoung, Jasmina J Allen, Kevan M Shokat and Stephen J Benkovic “Dynamic Regulation of a Metabolic Multi-Enzyme Complex by Protein Kinase CK2” *J Biol Chem* (2010) 285, 11093-11099
21. Anjali Mascarenhas, **Songon An**, Abbey E Rogen, Susan Martinis and Karin Musier-Forsyth “Fidelity Mechanism of Aminoacyl-tRNA Synthetases” in *Protein Engineering* (2009) Eds. Uttam L. RajBhandary and Caroline Köhrer, Springer-Verlag Berlin Heidelberg, ISBN: 978-3-540-70937-4, e-ISBN: 978-3-540-70941-1, pp155-203
22. **Songon An**^{*}, Ravindra Kumar, Erin D Sheets^{*} and Stephen J Benkovic^{*} “Reversible Compartmentalization of *de novo* Purine Biosynthetic Complexes in Living Cells” *Science* (2008) 320, 103-106 (Cited by 647, As of September 2025)
23. Brian Burke, **Songon An** and Karin Musier-Forsyth “Functional Guanine-Arginine Interaction Between tRNA^{Pro} and Prolyl-tRNA Synthetase that Couples Binding and Catalysis” *Biochim Biophys Acta - Proteins and Proteomics* (2008) 1784, 1222-1225
24. **Songon An**, George Barany and Karin Musier-Forsyth “Evolution of Acceptor Stem tRNA Recognition by Class II Prolyl-tRNA Synthetase” *Nucleic Acids Res* (2008) 36, 2514-2521
25. **Songon An** and Karin Musier-Forsyth “Cys-tRNA^{Pro} Editing by *Haemophilus influenzae* YbaK via a Novel Synthetase-YbaK-tRNA Ternary Complex” *J Biol Chem* (2005) 280, 34465-34472 (Cited by 110, As of September 2025)
26. **Songon An** and Karin Musier-Forsyth “Trans-editing of Cys-tRNA^{Pro} by *Haemophilus influenzae* YbaK protein” *J Biol Chem* (2004) 279, 42359-42362 (Cited by 161, As of September 2025)

Preprints

27. [Preprint] Hye-Won Kang^{*}, Luan Nguyen, **Songon An**^{*}, and Minjoung Kyoung^{*} “Mechanistic insights of glucosome condensate formation by stochastic modeling approaches” *bioRxiv* (2022) doi.org/10.1101/2022.06.27.497813
28. [Preprint] Danielle L. Schmitt, Patricia Dranchak, Prakash Parajuli, Dvir Blivis, Ty Voss, Casey L. Kohnhorst, Minjoung Kyoung, James Inglese, and **Songon An**^{*} “High-content quantitative high throughput screening identifies a cell cycle-associated signaling cascade that regulates a multienzyme metabolic assembly for glucose metabolism” *bioRxiv* (2022) doi.org/10.1101/2022.06.10.495654
29. [Preprint] Erin L. Kennedy, Miji Jeon, Farhan Augustine, Krishna M. Chauhan, **Songon An**, and Minjoung Kyoung^{*} “Functional regulation by 4D metabolic network of multienzyme glucosome assemblies and mitochondria in living cells” *bioRxiv* (2022) doi.org/10.1101/2022.05.16.491844
30. [Preprint] Miji Jeon, Danielle L. Schmitt, Minjoung Kyoung, and **Songon An**^{*} “Functional oscillation of a multienzyme glucosome assembly during cell cycle progression” *bioRxiv* (2022) [doi:10.1101/2022.01.06.475270](https://doi.org/10.1101/2022.01.06.475270)

Manuscripts under peer-review

31. Ashesh Sharma, and **Songon An*** “Phosphofructokinase in Glycolysis: Bridging Enzymology and Cell Biology” *Submitted to Experimental Cell Research (August 26, 2025)*

Patent

1. Florence Verrier, **Songon An**, Ye Fang, and Stephen J. Benkovic “Methods to identify targets and molecules regulating purinosomes and their uses” (2012) Application No.13/185018. Filing Date (7/18/2011) & Publication (07/26/2012)
2. **Songon An**, Danielle L. Schmitt, James Inglese, and Patricia Dranchak “High Content Screening Identifies the Association of the Cell Cycle with the Multienzyme Metabolic Assembly of Glucose Metabolism” (2019) Application No.16/452767. Filing Date (06/26/2019) & Publication (12/26/2019)

Other Scientific Professional Opinion Writing

32. **Songon An** and Klaus Pors “Cancer Metabolism” in AACR-CICR* Newsletter (June 2016) [*AACR-CICR: Chemistry in Cancer Research Working Group at the American Association for Cancer Research]
33. **Songon An** “F1000Prime Recommendation” in Faculty of 1000 (Total 11)
 - a. doi:10.3410/f.732899543.793558654 (April 15, 2019)
 - b. doi:10.3410/f.727533917.793551922 (October 25, 2018)
 - c. doi:10.3410/f.727620650.793541509 (January 17, 2018)
 - d. doi:10.3410/f.726984484.793527075 (January 17, 2017)
 - e. doi:10.3410/f.725442942.793512549 (December 22, 2015)
 - f. doi:10.3410/f.718892318.793507032 (June 1, 2015)
 - g. doi:10.3410/f.718251582.793494467 (May 2, 2014)
 - h. doi:10.3410/f.718182175.793488988 (January 3, 2014)
 - i. doi:10.3410/f.717991115.793485200 (October 17, 2013)
 - j. doi:10.3410/f.717963431.793477664 (June 6, 2013)
 - k. doi:10.3410/f.717955684.793474643 (April 17, 2013)

Presentations***Invited Seminars in Universities and Institutions***

1. **Songon An** “A Multienzyme Glucosome Assembly for Glucose Metabolism and Its Contribution to the Warburg Effect in Human Cancer Cells” Program in Oncology, Molecular and Structural Biology Division, University of Maryland School of Medicine, Baltimore, MD (January 23, 2025)
2. **Songon An** “The Glucosome: A Multienzyme Metabolic Assembly for Glucose Metabolism & Its Functional Contribution to Cellular Metabolism in Living Cells,” Department of Chemistry and Biochemistry, University of Wisconsin, Eau Claire (February 23, 2024)
3. **Songon An** “The Glucosome: A Multienzyme Metabolic Assembly for Glucose Metabolism & Its Functional Contribution to Cellular Metabolism in Living Cells,” Department of Chemistry and Biochemistry, Montclair State University, Montclair, NJ (November 15, 2023)
4. **Songon An** “A Whole New World of Biochemistry: Functional Metabolic Condensates in Living Human Cells” The Graduate School of “Protein Complex Assembly,” Braunschweig University of Technology, Germany (March 1, 2021)
5. **Songon An** “A Whole New World of Biochemistry: Functional Metabolic Condensates in Living Human Cells” Department of Chemistry and Biochemistry, University of Maryland, College Park (February 25, 2020)
6. **Songon An** “A Regulatory Metabolic Complex for Glucose Metabolism in Living Cells: the Glucosome” Department of Chemistry and Chemical Biology, Northeastern University, Boston, MA (October 24, 2018)

7. **Songon An** “A Regulatory Metabolic Complex for Glucose Metabolism in Living Cells: the Glucosome” Department of Chemistry and Biochemistry, The Ohio State University, Columbus, OH (September 13, 2018)
8. **Songon An** “A Regulatory Metabolic Complex for Glucose Metabolism in Living Cells: the Glucosome” Department of Chemistry and Biochemistry, University of Texas, Arlington, TX (February 23, 2018)
9. **Songon An** “A Regulatory Metabolic Complex for Glucose Metabolism in Living Cells: the Glucosome” Department of Chemistry and Biochemistry, University of Maryland Baltimore County, Baltimore, MD (September 15, 2017)
10. **Songon An** “A Regulatory Metabolic Complex for Glucose Metabolism in Living Cells: the Glucosome” Department of Pharmacology and Department of Chemistry and Biochemistry, University of California, San Diego, CA (May 16, 2017)
11. **Songon An** “A Regulatory Metabolic Complex for Glucose Metabolism in Living Cells: the Glucosome” Department of Chemistry, Pennsylvania State University, University Park, PA (April 13, 2017)
12. **Songon An** “A Regulatory Metabolic Complex for Glucose Metabolism in Living Cells: the Glucosome” Department of Biological Sciences, Marquette University, Milwaukee, WI (March 3, 2017)
13. **Songon An** “A Regulatory Metabolic Complex for Glucose Metabolism in Living Cells: the Glucosome” Department of Chemistry and Biochemistry, George Mason University, Fairfax, VA (March 2, 2017)
14. **Songon An** “A Regulatory Metabolic Complex for Glucose Metabolism in Living Cells: the Glucosome” The Institute for Structural Biology, Drug Discovery and Development, School of Pharmacy, Virginia Commonwealth University, Richmond, VA (November 2, 2016)
15. **Songon An** “A Regulatory Metabolic Complex for Glucose Metabolism in Living Cells: the Glucosome” Department of Chemistry and Biochemistry, University of Delaware, Newark, DE (September 26, 2016)
16. **Songon An** “Spatiotemporal Regulation of Metabolic Pathways in Living Cells” Department of Biochemistry and Molecular Biology, Bloomberg School of Public Health, Johns Hopkins University, Baltimore, MD (February 10, 2014)
17. **Songon An** “Spatiotemporal Regulation of Metabolic Pathways in Living Cells” Department of Chemistry, George Washington University, Washington, DC (February 8, 2013)
18. **Songon An** “Spatiotemporal Regulation of Metabolic Pathways in Living Cells” Department of Biological Sciences, University of Maryland Baltimore County, Baltimore, MD (September 19, 2012)
19. **Songon An** “Cellular Biochemistry of a Metabolic Multienzyme Complex in Cells: the Purinosome” Department of Biochemistry and Biophysics, University of Pennsylvania School of Medicine, Philadelphia, PA (February 2011) – *Faculty Candidate*
20. **Songon An** “Cellular Biochemistry of a Metabolic Multienzyme Complex in Cells: the Purinosome” Department of Biochemistry, University of Texas Southwestern Medical Center, Dallas, TX (January 2011) – *Faculty Candidate*
21. **Songon An** “Cellular Biochemistry of a Metabolic Multienzyme Complex in Cells: the Purinosome” Department of Chemistry and Biochemistry, University of Maryland Baltimore County, Baltimore, MD (January 2011) – *Faculty Candidate*
22. **Songon An** “Chemical Biology of a Metabolic Multienzyme Complex in Cells: the Purinosome” Department of Chemistry, University of Michigan, Ann Arbor, MI (December 2010) – *Faculty Candidate*
23. **Songon An** “Chemical Biology of a Metabolic Multienzyme Complex in Cells: the Purinosome” Department of Chemistry and Chemical Biology, and the Weill Institute of Molecular and Cell Biology, Cornell University, Ithaca, NY (March 2010) – *Faculty Candidate*
24. **Songon An** “Chemical Biology of a Metabolic Multienzyme Complex in Cells: the Purinosome” Rockefeller University, New York, NY (September 2009) – *Faculty Candidate*
25. **Songon An** “Chemical Biology of a Metabolic Multienzyme Complex in Cells: the Purinosome” National Institutes of Health – Chemical Genomic Center, Rockville, MD (March 2009)

26. **Songon An** “Chemical Biology of a Metabolic Multienzyme Complex in Cells: the Purinosome” Cardiovascular Research Institute, University of California, San Francisco, CA (February 2009) – *Faculty Candidate*
27. **Songon An** “Chemical Biology of a Metabolic Multienzyme Complex in Cells: the Purinosome” Department of Chemistry and Department of Molecular and Cell Biology, University of California, Berkeley, CA (January 2009) – *Faculty Candidate*
28. **Songon An** “Reversible Compartmentalization of de novo Purine Biosynthetic Complexes in Living Cells” Department of Chemistry, Yonsei University, Seoul, South Korea (July 2007)
29. **Songon An** “Reversible Compartmentalization of de novo Purine Biosynthetic Complexes in Living Cells” Department of Chemistry, Pohang University of Science and Technology, Pohang, South Korea (July 2007)
30. **Songon An** “Reversible Compartmentalization of de novo Purine Biosynthetic Complexes in Living Cells” Department of Chemistry, Pusan National University, Pusan, South Korea (July 2007)
31. **Songon An** “Mechanistic Studies of tRNA Recognition and Amino Acid Editing by Class II Prolyl-tRNA Synthetase and the YbaK Protein Paralog” Department of Biological Chemistry and Molecular Pharmacology, Harvard Medical School, Boston, MA (January 2005)
32. **Songon An** “Mechanistic Studies of tRNA Recognition and Amino Acid Editing by Class II Prolyl-tRNA Synthetase and the YbaK Protein Paralog” Department of Chemistry, Pennsylvania State University, University Park, PA (December 2004)
33. **Songon An** “Evolution of Acceptor Stem tRNA Recognition by Class II Prolyl-tRNA Synthetase” The Center for Medicinal Protein Network and System Biology, Seoul National University, Seoul, South Korea (January 2003)

Oral Presentations at National/International Conferences

34. **Songon An** “Real-time Visualization of Glucose Metabolism through Multienzyme ‘*Glucosome*’ Assemblies in Living Cells” The 2024 Gordon Research Conference: Enzymes, Coenzymes and Metabolic Pathways, Waterville Valley, NH (July 28 - August 2, 2024)
35. (Minjoung Kyoung), Erin L. Kennedy, Miji Jeon, Farhan Augustine, Krishna M. Chauhan, **Songon An** “Functional Regulation of 4D Metabolic Network between Multienzyme Glucosome Condensates and Mitochondria” The 2022 Annual Meeting of the American Society for Cell Biology (CELL BIO 2022 – ASCB/EMBO Meeting), Washington, DC (December 3-7, 2022)
36. **Songon An** “Spatiofunctional Regulation of Glucosomes by EGF-ERK Signaling Cascade” InSiDE Seminar Series – Signaling Dynamics and Encoding, Virtual (July 15, 2021)
37. **Songon An** “Membraneless Metabolic Granules and Their Functional Contributions to Glucose Metabolism in Living Human Cells: the Glucosome” Keystone Symposia – Biomolecular Condensates: Phase-Separated Organizers of Cellular Biochemistry (D5), Snowbird, UT (April 10-14, 2019)
38. **Songon An** “A Regulatory Metabolic Complex for Glucose Metabolism in Living Cells: the Glucosome” Winter Q-Bio: Quantitative Biology on the Hawaiian Islands, Oahu, HI (February 19-22, 2019)
39. **Songon An** “A Regulatory Multienzyme Complex for Glucose Metabolism and Its Contributions to the Warburg Effect in Single Cancer Cells” The AACR Metabolism and Cancer (Plenary Session 5), New York City, NY (Sept 28-Oct 1, 2018)
40. (Hye-Won Kang), Miji Jeon and **Songon An** “A Mathematical Model for Enzyme Clustering in Glucose Metabolism” Winter Q-BIO: Quantitative Biology on the Hawaiian Islands, Maui – Grand Wailea, HI (February 22-25, 2018)
41. (Danielle Schmitt), Patricia Dranchak, James Inglese and **Songon An** “Spatial Regulation of Glycolytic and Gluconeogenic Enzyme Compartmentalization by Small Molecules in Human Cells” The 2017 ACS National Meeting, Washington, DC (August 20-24, 2017)

42. (Hye-Won Kang) and **Songon An** “A Mathematical Modeling of the Enzyme Clustering in Glucose Metabolism” Winter Q-BIO: Quantitative Biology on the Hawaiian Islands, Kauai, HI (February 21-24, 2017)
43. **Songon An** “A Regulatory Metabolic Complex for Glucose Metabolism in Living Cells: the Glucosome” The US-Korea Conference 2016 on Sciences, Engineering and Entrepreneurship, Hyatt Regency DFW international Airport, Dallas, TX (August 10-13, 2016)
44. **Songon An** “A Regulatory Metabolic Complex for Glucose Metabolism in Living Cells: the Glucosome” The 2016 Gordon Research Conference: Enzymes, Coenzymes and Metabolic Pathways, Waterville Valley, NH (July 24-29, 2016)
45. (Danielle L. Schmitt), Yun-ju Cheng, Junyong Park and **Songon An** “Sequestration-mediated downregulation of de novo purine biosynthesis by AMPK” The 2016 ASBMB National Meeting, San Diego, CA (April 2-6, 2016)
46. **Songon An** “Coupled Networks between the Purinosome and Signaling Pathways” Special Interests Subgroup – Cytophidia, Snakes within the Cell: Compartmentalization and Filamentation of Metabolic Pathways, The Annual Meeting of the American Society for Cell Biology, Philadelphia, PA (December 6-9, 2014)
47. **Songon An** “Reversible Metabolic Complexes for Novel Drug Discovery” The 5th World Congress on Bioavailability and Bioequivalence: Pharmaceutical R&D Summit, Baltimore, MD (September 2014)
48. **Songon An** “Transient Metabolic Complex, the Purinosome, for Metabolic Adaptation in Cancer Cells” The Cancer and Metabolism, the US-Korea Conference 2013, Sheraton Meadowlands Hotel and Conference Center, NJ (August 7-11, 2013)
49. **Songon An** and Stephen J. Benkovic “Spatiotemporal Regulation of Metabolic Pathways in Living Cells” Special Interests Subgroup - Cell Biology of Metabolic Pathways, The 50th Annual Meeting of the American Society for Cell Biology, Philadelphia, PA (December 2010)
50. **Songon An** and Karin Musier-Forsyth “Trans-editing of Cys-tRNA^{Pro} by *Haemophilus influenzae* YbaK protein” The International Conference on Aminoacyl-tRNA Synthetases, Seoul National University, Seoul, South Korea (January 2003)

Oral Presentations at Regional Conferences/Symposia

51. **Songon An** “The Era of Multidisciplinary Sciences! Where to Start?” The Annual Research in Science and Engineer (RISE) Conference at Centennial High School, HCPSS, Ellicott City, MD (April 5, 2024)
52. **Songon An** “Spatial Organizations of Metabolic Enzymes in Living Human Cells” A Lighting Talk at the Army Research Laboratory Open Campus Program, UMBC, Baltimore, MD (February 18, 2020)
53. **Songon An** “A Regulatory Metabolic Complex for Glucose Metabolism: the Glucosome” The Annual Biochemistry and Molecular Biology Retreat 2018, University of Maryland School of Medicine, Baltimore, MD (January 19, 2018)
54. (Danielle Schmitt), Patricia Dranchak, James Inglese, and **Songon An** “Spatial Regulation of Enzyme Compartmentalization by Small Molecules in Live Cells” The 2017 Biotech Symposium, University of Maryland Baltimore County, Baltimore MD (January 27, 2017)
55. **Songon An** “A Regulatory Metabolic Complex for Glucose Metabolism in Living Cells: the Glucosome” The Biology, Chemistry and Physics of Non-membranous Organelle, Johns Hopkins University School of Medicine, Baltimore, MD (September 7, 2016)
56. (Danielle Schmitt), Yun-ju Cheng, Junyong Park and **Songon An** “Sequestration-mediated downregulation of de novo purine biosynthesis by AMPK” The 9th Annual Frontiers at the Chemistry and Biology Interface Symposium, Johns Hopkins University, Baltimore, MD (May 2016)
57. (Danielle Schmitt), Yun-ju Cheng, Junyong Park and **Songon An** “Sequestration-mediated downregulation of de novo purine biosynthesis by AMPK” The Annual Graduate Research Conference, University of Maryland Baltimore County, Baltimore, MD (March 2016)

58. (Danielle Schmitt), Julio Ramirez and **Songon An** “Real-time Dynamics of the Purinosome Governed by AMPK-associated Signaling Network” The Annual Graduate Research Conference, University of Maryland Baltimore County, Baltimore, MD (March 2015)
59. **Songon An** “Spatiotemporal Compartmentalization of Metabolic Pathways in Living Cells” The 2015 Protein Meet-Up Symposium, The Protein Society, University of Maryland Baltimore County (UMBC), Baltimore, MD (January 14, 2015)
60. **Songon An** “Spatiotemporal Regulation of Metabolic Pathways in Living Cells” The 3rd Annual Biochemistry and Molecular Biology Retreat 2014, University of Maryland School of Medicine, Baltimore, MD (January 10, 2014)
61. **Songon An** “Spatiotemporal Regulation of Metabolic Pathways in Living Cells” The Baltimore Life Scientists Association, Baltimore, MD (October 29, 2013)
62. **Songon An** “Spatiotemporal Regulation of Metabolic Pathways in Living Cells” The 5th Annual Frontiers at the Chemistry-Biology Interface Symposium, University of Pennsylvania, Philadelphia, PA (April 28, 2012)
63. **Songon An**, Karin Musier-Forsyth “Mechanistic Studies of tRNA Recognition and Amino Acid Editing by Class II Prolyl-tRNA Synthetase and the YbaK Protein Paralog” The Structural Biology Meeting, University of Minnesota, Minneapolis, MN (March 2005)

Poster Presentations at National/International Conferences

64. Miji Jeon, Minjoung Kyoung and **Songon An** “Dynamic Association of Multienzyme Glucosome Assemblies with the Cell Cycle in Human Cells” The 2024 Gordon Research Conference: Enzymes, Coenzymes and Metabolic Pathways, Waterville Valley, NH (July 28 - August 2, 2024)
65. Miji Jeon, Erin Kennedy, Krishna Chauhan, Prakash Parajuli, Minjoung Kyoung and **Songon An** "Spatial Biochemistry of Glucose Flux Regulation by Multienzyme Glucosome Assemblies in Human Cells" The 2023 Gordon Research Conference: Enzymes, Metabolic Pathways, Waterville Valley, NH (July 16-21, 2023)
66. **Songon An** “Membraneless Metabolic Granules and Their Functional Contributions to Glucose Metabolism in Living Human Cells: the Glucosome” Keystone Symposia – Biomolecular Condensates: Phase-Separated Organizers of Cellular Biochemistry (D5), Snowbird, UT (April 10-14, 2019)
67. Miji Jeon, Danielle L. Schmitt, Minjoung Kyoung and **Songon An** "Size-Dependent Functional Oscillation of Glucosomes during the Cell Cycle Progression," The 2019 Gordon Research Conference – Enzymes, Coenzymes and Metabolic Pathways, Waterville Valley, NH. (July 22, 2019).
68. (Miji Jeon), Krishna M. Chauhan, Gregory L. Szeto and **Songon An** “Functional Regulation of a Multienzyme Metabolic Complex in Glucose Metabolism by the EGF-ERK1/2 Signaling Cascade” Nature Conference: Functional Dynamics-Visualizing Molecules in Action, Arizona State University, AZ (November 6-8, 2019)
69. (Erin L. Kennedy), Miji Jeon, Farhan Augustine, **Songon An** and Minjoung Kyoung “Spatiofunctional Enzyme Droplets in Cellular Metabolism” The 63rd Annual Meeting of the Biophysical Society, Baltimore, MD (March 6, 2019).
70. (Miji Jeon), Casey Kohnhorst, Minjoung Kyoung and **Songon An** “The Glucosome: A Metabolic Compartment for Glucose Metabolism in Living Cells” The 63rd Annual Meeting of the Biophysical Society, Baltimore, MD (March 2, 2019)
71. (Miji Jeon), Casey Kohnhorst, Minjoung Kyoung and **Songon An** “The Glucosome: A Metabolic Compartment for Glucose Metabolism in Living Cells” The Annual Biochemistry and Molecular Biology Retreat 2019, University of Maryland School of Medicine, Baltimore, MD (January 11, 2019)
72. **Songon An** “A Regulatory Multienzyme Complex for Glucose Metabolism and Its Contributions to the Warburg Effect in Single Cancer Cells” The AACR Metabolism and Cancer, New York City, NY (September 30, 2018)
73. **Songon An** “Sequestration of de novo Purine Biosynthetic Enzymes by Signaling Pathways” The Gordon Research Conference: Enzymes, Coenzymes and Metabolic Pathways, Waterville Valley, NH (July 22, 2018)

74. (Miji Jeon), Casey Kohnhorst, Minjoung Kyoung and **Songon An** "The Glucosome: A Metabolic Compartment for Glucose Metabolism in Living Cells" The 2018 ASBMB National Meeting, San Diego, CA (April 22, 2018)
75. **Songon An** and Minjoung Kyoung "A Regulatory Metabolic Complex for Glucose Metabolism in Living Cells: the Glucosome" NCI and ASCB-Cosponsored Strategic Workshop on Imaging Subcellular to Cellular Cancer Biology, Bethesda, MD (April 6, 2018).
76. (Erin L. Kennedy), **Songon An** and Minjoung Kyoung "Transient protein-protein interactions within Hs578T breast cancer cells," The 2017 ACS National Meeting, Washington, DC (August 20-24, 2017)
77. (Danielle Schmitt), Patricia Dranchak, James Inglese and **Songon An** "Spatial Regulation of Glycolytic and Gluconeogenic Enzyme Compartmentalization by Small Molecules in Human Cells" The 2017 ACS National Meeting, Washington, DC (August 20-24, 2017)
78. (Miji Jeon), Casey Kohnhorst, Minjoung Kyoung, Danielle Schmitt, Erin Kennedy, Julio Ramirez, Syrena Bracey, Bao Tran Luu, Sarah Russell and **Songon An** "Identification of a Multienzyme Complex for Glucose Metabolism in Living Cells: the Glucosome" The 2017 ACS National Meeting, Washington, DC (August 20-24, 2017)
79. (Danielle Schmitt), Patricia Dranchak, James Inglese and **Songon An** "Spatial Regulation of Glycolytic and Gluconeogenic Enzyme Compartmentalization by Small Molecules in Human Cells" Gordon Research Conference: Bioorganic Chemistry, proctor Academy, Andover, NH (June 16, 2017)
80. Casey Kohnhorst, Minjoung Kyoung, Miji Jeon, Danielle Schmitt, Erin Kennedy, Julio Ramirez, Syrena Bracey, Bao Tran Luu, Sarah Russell and **Songon An** "A Regulatory Metabolic Complex for Glucose Metabolism in Living Cells" The 2017 Enzyme Mechanisms Conference, St. Pete Beach, FL (January 2017)
81. Casey Kohnhorst, Minjoung Kyoung, Miji Jeon, Danielle Schmitt, Erin Kennedy, Julio Ramirez, Syrena Bracey, Bao Tran Luu, Sarah Russell and **Songon An** "A Regulatory Metabolic Complex for Glucose Metabolism in Living Cells" The 2016 Gordon Research Conference: Enzymes, Coenzymes, and Metabolic Pathways, Waterville Valley, NH (July 2016)
82. **Songon An** and Anand Sundaram "Akt-independent PDK1 Signaling in the Regulation of Purine Biosynthesis" The American Association for Cancer Research: Metabolism and Cancer, Hyatt Regency Bellevue, Bellevue, WA (June 7-10, 2015)
83. (Danielle Schmitt), Yun-ju Cheng, Junyong Park and **Songon An** "Sequestration-mediated downregulation of de novo purine biosynthesis by AMPK" The 2016 ASBMB National Meeting, San Diego, CA (April 2015)
84. (Syrena Bracey), Casey Kohnhorst, Danielle Schmitt and **Songon An** "Subcellular Localization of Glucose-6-Phosphatase Toward Understanding Spatiotemporal Regulation of Glucose Metabolism" The 250th ACS Annual Meeting, Boston, MA (August 2015)
85. (Gabriella Balaa), Danielle Schmitt and **Songon An** "Quantitative Analysis of Purine Nucleotide Pools Involved in AMPK Regulatory Loop" The 250th ACS Annual Meeting, Boston, MA (August 2015)
86. Danielle Schmitt, Anand Sundaram and **Songon An** "Sequestration of de novo Purine Biosynthetic Enzyme by Signaling Pathways" The 2015 Gordon Research Conference Enzymes, Coenzymes, and Metabolic Pathways, Waterville Valley, NH (July 2015)
87. (Anand Sundaram), Julio Ramirez and **Songon An** "Investigating the Role of 3-Phosphoinositide-dependent Protein Kinase 1 (PDK1) in the Spatiotemporal Regulation of the Purinosome" The 2015 ASBMB Annual Meeting, Boston, MA (March 28-April 1, 2015)
88. (Danielle Schmitt), Julio Ramirez and **Songon An** "Real-time Dynamics of the Purinosome Governed by AMPK-associated Signaling Network" The 59th Annual Meeting of Biophysical Society, Baltimore, MD (February 2015)
89. (Danielle Schmitt), Julio Ramirez and **Songon An** "Real-time Dynamics of the Purinosome Governed by AMPK-associated Signaling Network" The 2014 Annual Meeting of American Society for Cell Biology, Philadelphia, PA (December 2014)

90. **Songon An** “Transient Metabolic Complex, the Purinosome, for Metabolic Adaptation in Cancer Cells” The American Association for Cancer Research (AACR): International Conference - Frontiers in Basic Cancer Research, National Harbor, MD (September 18-22, 2013)
91. Minjoung Kyoung, Sarah Russell, Nopondo Esemoto and **Songon An** “Assembly Mechanism of a Transient Metabolic Complex, the Purinosome, in Living Cells” The 2013 Gordon Research Conference: Enzymes, Coenzymes and Metabolic Pathways, Waterville Valley, NH (July 14-19, 2013)
92. (Minjoung Kyoung), Sarah Russell, Nopondo Esemoto and **Songon An** “Kinetic Organization of a Transient Metabolic Complex, the Purinosome, in Cancer Cells” The Cancer and Metabolism – 2013, Amsterdam, Netherlands (June 24-25, 2013)
93. **Songon An** “Transient Metabolic Complex, the Purinosome, for Metabolic Adaptation in Cancer Cells” The Cancer and Metabolism – 2013, Amsterdam, Netherlands (June 24-25, 2013)
94. (William Aumiller), Bradley Davis, Jacqueline Keighron, **Songon An**, Stephen Benkovic and Christine Keating “Bottom-up assembly and characterization of artificial multienzyme complexes” The 241st ACS National Meeting, Anaheim, CA, USA (March 27-31, 2011)
95. **Songon An**, Ravindra Kumar, Erin Sheets and Stephen Benkovic “Reversible Compartmentalization of de novo Purine Biosynthetic Complexes in Living Cells” The 2009 Gordon Research Conference: Enzymes, Coenzymes and Metabolic Pathways, Waterville Valley, NH, USA (July 2009)
96. **Songon An** and Karin Musier-Forsyth “Trans-editing of Cys-tRNA^{Pro} by *Haemophilus influenzae* YbaK protein” The 2005 Gordon Research Conference: Enzymes, Coenzymes and Metabolic Pathways, Biddeford, ME, USA (July 2005)
97. **Songon An** and Karin Musier-Forsyth “Mechanistic Studies of tRNA Recognition and Amino Acid Editing by Class II Prolyl-tRNA Synthetase” The 20th International tRNA Workshop, Banz, Germany (October 2003)
98. **Songon An** and Karin Musier-Forsyth “Probing human tRNA^{Pro} recognition by human prolyl-tRNA synthetase via site-specific atomic group backbone substitutions” The 224th ACS National Meeting, Boston, MA, USA (August 18-22, 2002)
99. (Cuong Pham), **Songon An**, Brian Burke and Karin Musier-Forsyth “Elucidating species-specific differences in aminoacyl-tRNA synthetases by using x-ray crystallography” The 223rd ACS National Meeting, Orlando, FL, USA (April 7-11, 2002)
100. **Songon An** and Karin Musier-Forsyth “Evolution of Acceptor Stem tRNA Recognition by Class II Prolyl-tRNA Synthetase” The Aminoacyl-tRNA Synthetases in Biology, Medicine, and Evolution, Asilomar, CA, USA (January 2002)

Poster Presentations at Regional Conferences/Symposia

101. (Ashesh Sharma), Minjoung Kyoung and **Songon An** “Modulating Size Distribution of Glucosomes to Understand Their Size-Dependent Functional Contributions to Cellular Redox Homeostasis” The Annual Frontiers at the Chemistry-Biology Interface Symposium (FCBIS), Johns Hopkins University, Baltimore, MD (May 9, 2025)
102. (Ashesh Sharma), Minjoung Kyoung and **Songon An** “Modulating Size Distribution of Glucosomes to Understand Their Size-Dependent Functional Contributions to Cellular Redox Homeostasis” The Graduate Research Day, Department of Chemistry and Biochemistry, UMBC, Baltimore, MD (March 14, 2025)
103. (Augustine Obisesan), Ashesh Sharma and **Songon An** “Decoding Glucosome: Revealing the Function-Dependent Composition of Glucosome” The 2024 SURF (Summer Undergraduate Research Fest), UMBC, MD (August 7, 2024)
104. (Ashesh Sharma), Minjoung Kyoung and **Songon An** “Modulating Size Distribution of Glucosomes to Understand Their Size-Dependent Functional Contributions to Cellular Redox Homeostasis” The Annual Frontiers at the Chemistry-Biology Interface Symposium (FCBIS), University of Maryland Baltimore County (UMBC), Baltimore, MD (May 4, 2024)

105. (Ashesh Sharma), Minjoung Kyoung and **Songon An** "Modulating Size Distribution of Glucosomes to Understand Their Size-Dependent Functional Contributions to Cellular Redox Homeostasis" The Graduate Research Festival, College of Natural and Mathematical Sciences, UMBC, Baltimore, MD (April 12, 2024)
106. (Augustine Obisesan), Ashesh Sharma and **Songon An** "Decoding Glucosome: Revealing the Function-Dependent Composition of Glucosome" The Annual Undergraduate Research and Creative Achievement Day (URCAD), University of Maryland Baltimore County, Baltimore, MD (April 10, 2024)
107. (Ashesh Sharma), Minjoung Kyoung and **Songon An** "Modulating Size Distribution of Glucosomes to Understand Their Size-Dependent Functional Contributions to Cellular Redox Homeostasis" The Graduate Experience, Achievements & Research Symposium, UMBC, Baltimore, MD (April 4, 2024)
108. (Ashesh Sharma), Minjoung Kyoung and **Songon An** "Modulating Size Distribution of Glucosomes to Understand Their Size-Dependent Functional Contributions to Cellular Redox Homeostasis" The Graduate Research Day, Department of Chemistry and Biochemistry, UMBC, Baltimore, MD (March 1, 2024)
109. (Augustine Obisesan), Ashesh Sharma and **Songon An** "Decoding Glucosome: Revealing the Function-Dependent Composition of Glucosome" 2023 The 2023 USM LSAMP Research Symposium, University of Maryland, College Park, MD (December 2, 2023)
110. (Augustine Obisesan), Ashesh Sharma and **Songon An** "Decoding Glucosome: Revealing the Function-Dependent Composition of Glucosome" The 2023 SURF (Summer Undergraduate Research Fest), UMBC, MD (August 9, 2023)
111. (Ashesh Sharma), Minjoung Kyoung and **Songon An** "Modulating Size Distribution of Glucosomes to Understand Their Size-Dependent Functional Contributions to Cellular Redox Homeostasis" The Annual Frontiers at the Chemistry-Biology Interface Symposium (FCBIS), University of Maryland, School of Pharmacy, Baltimore, MD (May 20, 2023)
112. (Ashesh Sharma), Minjoung Kyoung and **Songon An** "Modulating Size Distribution of Glucosomes to Understand Their Size-Dependent Functional Contributions to Cellular Redox Homeostasis" The Chesapeake Bay Area Single Molecule Biology Meeting, Johns Hopkins University, Baltimore, MD (May 13, 2023)
113. (Ashesh Sharma), Minjoung Kyoung and **Songon An** "Modulating Size Distribution of Glucosomes to Understand Their Size-Dependent Functional Contributions to Cellular Redox Homeostasis" The Graduate Research Day, Department of Chemistry and Biochemistry, UMBC, Baltimore, MD (March 3, 2023)
114. (Ashesh Sharma), Minjoung Kyoung and **Songon An** "Modulating Size Distribution of Glucosomes to Understand Their Size-Dependent Functional Contributions to Cellular Redox Homeostasis" The Annual Biochemistry and Molecular Biology Retreat 2023, University of Maryland School of Medicine, Baltimore, MD (January 13, 2023)
115. (Ashesh Sharma), Minjoung Kyoung and **Songon An** "Modulating Size Distribution of Glucosomes to Understand Their Size-Dependent Functional Contributions to Cellular Redox Homeostasis" The Graduate Research Day, Department of Chemistry and Biochemistry, UMBC, Baltimore, MD (March 4, 2022)
116. (Erin L. Kennedy), **Songon An** and Minjoung Kyoung The Annual Frontiers at the Chemistry and Biology Interface Symposium, Department of Chemistry and Biochemistry, UMCP, College Park, MD (May 7, 2021).
117. (Erin L. Kennedy), **Songon An** and Minjoung Kyoung The Chemistry/Biochemistry Graduate Research Day, Department of Chemistry and Biochemistry, UMBC, Baltimore, MD (March 5, 2021).
118. (Miji Jeon), Krishna M. Chauhan, Gregory L. Szeto and **Songon An** "Functional Regulation of a Multienzyme Metabolic Complex in Glucose Metabolism by the EGF-ERK1/2 Signaling Cascade" The Chemistry/Biochemistry Graduate Research Day, UMBC, Baltimore, MD (March 6, 2020).
119. (Miji Jeon), Krishna M. Chauhan, Gregory L. Szeto and **Songon An** " Functional Regulation of a Multienzyme Metabolic Complex in Glucose Metabolism by the EGF-ERK1/2 Signaling Cascade" The 2020 Annual Biochemistry and Molecular Biology Retreat, University of Maryland School of Medicine, Baltimore, MD (January 10, 2020).

120. (Miji Jeon), Krishna M. Chauhan, Gregory L. Szeto and **Songon An** "Functional Regulation of a Multienzyme Metabolic Complex in Glucose Metabolism by the EGF-ERK1/2 Signaling Cascade" The 6th Chesapeake Bay Area Single Molecule Biology Meeting, UMBC, Baltimore, MD (November 9, 2019).
121. (Miji Jeon), Casey L. Kohnhorst, Minjoung Kyoung and **Songon An** "The Glucosome: A Metabolic Compartment for Glucose Metabolism in Living Cells" The 2019 Middle Atlantic Regional Meeting, The American Chemical Society, Baltimore, MD (May 30, 2019).
122. (Patricia Boyd), Erin L. Kennedy, **Songon An** and Minjoung Kyoung The 5th Chesapeake Bay Area Single Molecule Biology Meeting, HHMI Janelia Research Campus, Ashburn, VA (May 11, 2019).
123. (Erin L. Kennedy), Miji Jeon, Farhan Augustine, **Songon An** and Minjoung Kyoung The 5th Chesapeake Bay Area Single Molecule Biology Meeting, HHMI Janelia Research Campus, Ashburn, VA (May 11, 2019).
124. (Miji Jeon), Casey L. Kohnhorst, Minjoung Kyoung and **Songon An** "The Glucosome: A Metabolic Compartment for Glucose Metabolism in Living Cells" The Annual Frontiers at the Chemistry and Biology Symposium, NIH, Bethesda, MD (May 3, 2019).
125. (Miji Jeon), Casey L. Kohnhorst, Minjoung Kyoung and **Songon An** "The Glucosome: A Metabolic Compartment for Glucose Metabolism in Living Cells" The Chemistry/Biochemistry Graduate Research Day, Department of Chemistry and Biochemistry, UMBC, Baltimore, MD (March 8, 2019).
126. (Erin L. Kennedy), Miji Jeon, Farhan Augustine, **Songon An** and Minjoung Kyoung The Chemistry/Biochemistry Graduate Research Day, Department of Chemistry and Biochemistry, UMBC, Baltimore, MD (March 8, 2019).
127. (Miji Jeon), Minjoung Kyoung and **Songon An** "The Glucosome: A Metabolic Compartment for Glucose Metabolism in Living Cells" The 3rd Chesapeake Bay Area Single Molecule Biology Meeting, Johns Hopkins University, Baltimore, MD (May 12, 2018).
128. (Miji Jeon), Minjoung Kyoung and **Songon An** "The Glucosome: A Metabolic Compartment for Glucose Metabolism in Living Cells" The Annual Frontiers at the Chemistry-Biology Interface Symposium, UPenn, Pennsylvania, PA (May 5, 2018).
129. (Miji Jeon) and **Songon An** "The Glucosome: A Metabolic Compartment for Glucose Metabolism in Living Cells" The 9th Annual Cancer Biology Research Retreat, University of Maryland School of Medicine, Baltimore, MD (April 30, 2018).
130. (Miji Jeon), Minjoung Kyoung and **Songon An** "The Glucosome: A Metabolic Compartment for Glucose Metabolism in Living Cells" Annual Graduate Research Conference, UMBC Graduate School, UMBC, Baltimore, MD (March 28, 2018).
131. (Miji Jeon), Minjoung Kyoung and **Songon An** "The Glucosome: A Metabolic Compartment for Glucose Metabolism in Living Cells" Graduate Research Day, Department of Chemistry and Biochemistry, UMBC, Baltimore, MD (March 16, 2018).
132. (Erin L. Kennedy), Minjoung Kyoung and **Songon An** "4D Spatial Analysis of Protein Assemblies in Metabolism with Lattice Light Sheet Microscopy," Graduate Research Day, Department of Chemistry and Biochemistry, UMBC, Baltimore, MD (March 16, 2018).
133. (Joseph Sparenberg), Mohini S. Ghatge, Martin K. Safo and **Songon An** "Subcellular Interaction of Pyridoxine 5'-Phosphate Oxidase and Serine Hydroxymethyltransferase 2" The 2018 Annual Biochemistry and Molecular Biology Retreat, University of Maryland School of Medicine, Baltimore, MD. (January 19, 2018).
134. (Miji Jeon), Minjoung Kyoung and **Songon An** "Identification of a Multienzyme Complex for Glucose Metabolism in Living Cells: the Glucosome" The 2018 Annual Biochemistry and Molecular Biology Retreat, University of Maryland School of Medicine, Baltimore, MD. (January 19, 2018).
135. **Songon An** "A Regulatory Metabolic Complex for Glucose Metabolism in Living Cells: the Glucosome" The 2018 Annual Biochemistry and Molecular Biology Retreat, University of Maryland School of Medicine, Baltimore, MD (January 19, 2018).

136. (Bailey Nance), Minjoung Kyoung and **Songon An** “Cellular Localization and Association of Glucosome with Serine Biosynthetic Enzymes” The 2017 Summer Undergraduate Research Fest, University of Maryland Baltimore County, Baltimore, MD (August 9, 2017)
137. (Eunice Nam) and **Songon An** “Reconstitution of a Multienzyme Complex: the Glucosome” The 2017 Summer Undergraduate Research Fest, University of Maryland Baltimore County, Baltimore, MD (August 9, 2017)
138. (Danielle Schmitt), Patricia Dranchak, James Inglese and **Songon An** “Spatial Regulation of Enzyme Compartmentalization by Small Molecules in Live Cells” The 10th Annual Frontiers at the Chemistry and Biology Interface Symposium, University of Delaware, Newark, DE (May 6, 2017)
139. (Miji Jeon), Casey Kohnhorst, Minjoung Kyoung, Danielle Schmitt, Erin Kennedy, Julio Ramirez, Syrena Bracey, Bao Tran Luu, Sarah Russell and **Songon An** “Identification of a Multienzyme Complex for Glucose Metabolism in Living Cells: the Glucosome” The 10th Annual Frontiers at the Chemistry and Biology Interface Symposium, University of Delaware, Newark, DE (May 6, 2017)
140. (Andrew Le) and **Songon An** “One Step at a Time: Subcellular Localizations of Enzymes Involved in Human Glucose Metabolism” The Annual Undergraduate Research and Creative Achievement Day, University of Maryland Baltimore County, Baltimore, MD (April 26, 2017)
141. (Bailey Nance), Danielle Schmitt and **Songon An** “Effect of Antibiotics on HeLa Cell Proliferation and Clustering of PFKL-mEGFP” The Annual Undergraduate Research and Creative Achievement Day, University of Maryland Baltimore County, Baltimore, MD (April 26, 2017)
142. (Danielle Schmitt), Anand Sundaram and **Songon An** “Sequestration of de novo Purine Biosynthetic Enzyme by Signaling Pathways” The 1st Chesapeake Bay Area Single Molecule Biology Meeting, Johns Hopkins University, Baltimore, MD (April 18, 2017)
143. (Miji Jeon), Casey Kohnhorst, Minjoung Kyoung, Danielle Schmitt, Erin Kennedy, Julio Ramirez, Syrena Bracey, Bao Tran Luu, Sarah Russell and **Songon An** “A Regulatory Metabolic Complex for Glucose Metabolism in Living Cells” The 1st Chesapeake Bay Area Single Molecule Biology Meeting, Johns Hopkins University, Baltimore, MD (April 18, 2017)
144. (Danielle Schmitt), Patricia Dranchak, James Inglese and **Songon An** “Spatial Regulation of Enzyme Compartmentalization by Small Molecules in Live Cells” The 39th Annual Graduate Research Conference, University of Maryland, Baltimore County, Baltimore, MD (March 29, 2017)
145. (Miji Jeon), Casey Kohnhorst, Minjoung Kyoung, Danielle Schmitt, Erin Kennedy, Julio Ramirez, Syrena Bracey, Bao Tran Luu, Sarah Russell and **Songon An** “Subcellular Compartmentalization of Glucose-regulating Enzymes in Human Cancer Cells” The 39th Annual Graduate Research Conference, University of Maryland, Baltimore County, Baltimore, MD (March 29, 2017)
146. (Miji Jeon), Casey Kohnhorst, Minjoung Kyoung, Danielle Schmitt, Erin Kennedy, Julio Ramirez, Syrena Bracey, Bao Tran Luu, Sarah Russell and **Songon An** “Subcellular Compartmentalization of Glucose-regulating Enzymes in Human Cancer Cells” The 2017 Biotech Symposium, University of Maryland Baltimore County, Baltimore MD (January 27, 2017)
147. (Danielle Schmitt), Patricia Dranchak, James Inglese and **Songon An** “Spatial Regulation of Enzyme Compartmentalization by Small Molecules in Live Cells” The 6th Annual Biochemistry and Molecular Biology Retreat, University of Maryland School of Medicine, Baltimore, MD (January 20, 2017)
148. (Miji Jeon), Casey Kohnhorst, Minjoung Kyoung, Danielle Schmitt, Erin Kennedy, Julio Ramirez, Syrena Bracey, Bao Tran Luu, Sarah Russell and **Songon An** “Subcellular Compartmentalization of Glucose-regulating Enzymes in Human Cancer Cells” The 6th Annual Biochemistry and Molecular Biology Retreat, University of Maryland School of Medicine, Baltimore, MD (January 20, 2017)
149. (Farhan Augustine) and **Songon An** “Fluorescence Image Analysis via Threshold Enhanced Alternative Morphology Guided Image Segmentation” The Annual Undergraduate Research Symposium in the Chemical and Biological Sciences, University of Maryland Baltimore County, Baltimore, MD (October 22, 2016)

150. (Danielle Schmitt), Yun-ju Cheng, Junyong Park and **Songon An** “Sequestration-mediated downregulation of de novo purine biosynthesis by AMPK” The 9th Annual Frontiers at the Chemistry and Biology Interface Symposium, Johns Hopkins University, Baltimore, MD (May 14, 2016)
151. (Farhan Augustine) and **Songon An** “Fluorescence Image Analysis via Threshold Enhanced Alternative Morphology Guided Image Segmentation” The Annual Undergraduate Research and Creative Achievement Day, University of Maryland Baltimore County, Baltimore, MD (April 27, 2016)
152. (Jane Pan), **Songon An** and Hye-Won Kang “Mathematical Modeling of Cancer using ODEs and Stochastic Processes” The Annual Undergraduate Research and Creative Achievement Day, University of Maryland Baltimore County, Baltimore, MD (April 27, 2016)
153. (Danielle Schmitt), Yun-ju Cheng, Junyong Park and **Songon An** “Sequestration-mediated downregulation of de novo purine biosynthesis by AMPK” The 5th Annual Biochemistry and Molecular Biology Retreat, University of Maryland School of Medicine, Baltimore, MD (January 2016)
154. (Sarah Pollock), Danielle Schmitt, **Songon An** and Minjoung Kyoung “Molecular-Level Alteration of Signaling and Metabolic Pathways in Cancer Immunotherapy” The Annual Undergraduate Research Symposium in the Chemical and Biological Sciences, University of Maryland Baltimore County, Baltimore, MD (October 15, 2015)
155. (Sarah Pollock), Danielle Schmitt, **Songon An** and Minjoung Kyoung “Molecular-Level Alteration of Signaling and Metabolic Pathways in Cancer Immunotherapy” The 2015 Summer Undergraduate Research Fest, University of Maryland Baltimore County, Baltimore, MD (August 5, 2015)
156. (Danielle Schmitt), Julio Ramirez and **Songon An** “Real-time Dynamics of FGAMS Governed by AMPK-associated Signaling Network” The 8th Annual Frontiers at the Chemistry and Biology Interface Symposium, University of Maryland Baltimore County, Baltimore, MD (May 2015)
157. (Syrena Bracey), Casey Kohnhorst, Danielle Schmitt and **Songon An** “Subcellular Localization of Glucose-6-Phosphatase Toward Understanding Spatiotemporal Regulation of Glucose Metabolism” The 19th Annual Undergraduate Research and Creative Achievement Day, University of Maryland Baltimore County, Baltimore, MD (April 2015)
158. (Gabriella Balaa), Danielle Schmitt and **Songon An** “Quantitative Analysis of Purine Nucleotide Pools Involved in AMPK Regulatory Loop” The 19th Annual Undergraduate Research and Creative Achievement Day, University of Maryland Baltimore County, Baltimore, MD (April 2015)
159. (Casey Kohnhorst), Minjoung Kyoung, Sarah Russell and **Songon An** “Resveratrol Induces Spatial Colocalization of Phosphofructokinase and Other Glycolytic/Gluconeogenic Enzymes in Living Cells” The 2015 Protein Meet-Up Symposium, The Protein Society, University of Maryland Baltimore County (UMBC), Baltimore, MD (January 14, 2015)
160. (Anand Sundaram) and **Songon An** “Investigating the Role of 3-Phosphoinositide-dependent Protein Kinase 1 (PDK1) in Human de novo Purine Biosynthesis” The 2015 Protein Meet-Up Symposium, The Protein Society, University of Maryland Baltimore County (UMBC), Baltimore, MD (January 14, 2015)
161. (Casey Kohnhorst), Minjoung Kyoung, Sarah Russell and **Songon An** “Resveratrol Induces Spatial Colocalization of Phosphofructokinase and Other Glycolytic/Gluconeogenic Enzymes in Living Cells” The 7th Annual Frontiers at the Chemistry-Biology Interface Symposium, University of Maryland School of Pharmacy, Baltimore, MD (May 10, 2014)
162. (Anand Sundaram) and **Songon An** “Investigating the Role of 3-Phosphoinositide-dependent Protein Kinase 1 (PDK1) in Human de novo Purine Biosynthesis” The 7th Annual Frontiers at the Chemistry-Biology Interface Symposium, University of Maryland School of Pharmacy, Baltimore, MD (May 10, 2014)
163. (Casey Kohnhorst), Minjoung Kyoung, Sarah Russell and **Songon An** “Resveratrol Induces Spatial Colocalization of Phosphofructokinase and Fructose 1,6-bisphosphatase in Living Cells” The 36th Annual Graduate Research Conference, University of Maryland, Baltimore County, Baltimore, MD (March 26, 2014)
164. (Anand Sundaram) and **Songon An** “3-Phosphoinositide-dependent Protein Kinase 1 (PDK1) and Its Role in the de novo Purine Biosynthesis” The 36th Annual Graduate Research Conference, University of Maryland, Baltimore County, Baltimore, MD (March 26, 2014)

165. (Danielle Schmitt) and **Songon An** “Activation of AMPK by Small Molecule Activators Leads to Purinosome Formation” The 36th Annual Graduate Research Conference, University of Maryland, Baltimore County, Baltimore, MD (March 26, 2014)
166. (Casey Kohnhorst), Minjoung Kyoung, Sarah Russell and **Songon An** “Resveratrol Induces Spatial Colocalization of Phosphofructokinase and Fructose 1,6-bisphosphatase in Living Cells” The 3rd Annual Biochemistry and Molecular Biology Retreat, University of Maryland School of Medicine, Baltimore, MD (January 2014)
167. (Anand Sundaram) and **Songon An** “3-Phosphoinositide-dependent Protein Kinase 1 (PDK1) and Its Role in the de novo Purine Biosynthesis” The 3rd Annual Biochemistry and Molecular Biology Retreat, University of Maryland School of Medicine, Baltimore, MD (January 10, 2014)
168. (Danielle Schmitt) and **Songon An** “Activation of AMPK by Small Molecule Activators Leads to Purinosome Formation” The 3rd Annual Biochemistry and Molecular Biology Retreat, University of Maryland School of Medicine, Baltimore, MD (January 2014)
169. (Minjoung Kyoung), Sarah Russell, Nopondo Esemoto and **Songon An** “Kinetic Organization of a Transient Metabolic Complex, the Purinosome, in Cancer Cells” The 6th Annual Frontiers at the Chemistry-Biology Interface Symposium, University of Maryland, College Park, MD (May 4, 2013)
170. Anand Sundaram, Casey Kohnhorst, Danielle Schmitt, Minjoung Kyoung and **Songon An** “Spatiotemporal Regulation of Metabolic Pathways in Living Cells” Annual A Look Ahead XVI Symposium, University of Maryland Baltimore County, Baltimore, MD (April 17, 2013)
171. (Nopondo Esemoto), Kuan-Chun Huang and **Songon An** “Identification of a Scaffolding Domain Mediating Purinosome Assembly in Cells” The 15th Annual Undergraduate Research Symposium in the Chemical and Biological Sciences, University of Maryland Baltimore County, Baltimore, MD (October 20, 2012)
172. (Sarah Russell), Minjoung Kyoung and **Songon An** “Metabolic Sensor for Cancer Development” The 15th Annual Undergraduate Research Symposium in the Chemical and Biological Sciences, University of Maryland Baltimore County, Baltimore, MD (October 20, 2012)
173. **Songon An** “Spatiotemporal Regulation of Metabolic Pathways in Living Cells” Annual A Look Ahead XV Symposium, University of Maryland Baltimore County, Baltimore, MD (April 18, 2012)

SERVICE TO THE DEPARTMENT, UNIVERSITY & PROFESSION

Departmental Activities

Faculty Mentor for Dr. Herana Kamal Seneviratne (Appointed in Oct 2022)

Departmental P&T Committee (Selected only)

Chair, Third Year Review for Dr. Deepak Koirala (Fall 2022)

Teaching Observation Report Writer, Contract Renewal for Dr. Allison Tracy (Spring 2020)

Departmental Fifth-Year Post-Tenure Review Committee

Member, Review for Dr. Marie-Christine Daniel-Onuta (Spring 2020)

Search Committee for Tenure-Track Faculty

Member, September 2019 - May 2020 (Hired, Dr. Deepak Koirala)

Search Committee for Department Laboratory Supervisor

Member, Fall 2023 (Hired, Mr. Nick Taylor)

Chemistry Department Safety Committee

Co-Chair, January 2023 – present

Chair, September 2022 – December 2022

Member – Biological Sciences, July 2016 – August 2021

COVID19 Dept Emergency Management and Research Reopening Planning Committee

Member – Biological Sciences, March 2020 – July 2021

Organizer/Coordinator, Initiating N95 Mask Collection from UMBC Campus Laboratories, Donated to MD Department of Health for Healthcare Professionals

Graduate Student Progression Committee

Member – Biochemistry Representative, September 2022 – present

Member – Biochemistry Representative, September 2019 – August 2021

Member – Biochemistry Representative, December 2014 – July 2016

Biochemistry Teaching Division

Head, September 2019 – present

Member, September 2011 – August 2019

Interdepartmental BIOC Steering Committee

Member, April 2020 – August 2021

Graduate Professional Development Committee

Moderator, Career Development in Academia during the Graduate Research Day (March 5, 2021)

Member, September 2017 – August 2020

Departmental Seminar Coordinator

Fall 2015, Spring 2015, Fall 2014, Spring 2013

Graduate School Recruiting Committee

Member, September 2011 – Dec 2014

Departmental Contact Representative for A Look Ahead XVII Symposium (Spring 2014)

Departmental Review Panel for 2018 Research Experience for Undergraduates (REU) Applications (Spring 2018)

Academic Adviser for Biochemistry Undergraduate Students (since Spring 2012)

List of PhD/MS Students Committees Served/Serving on

Chemistry Graduate Program

Joshua Miguele Camacho	Chemistry PhD degree, Expected in 2029, Committee Member
Mark Gabriela Lee	Chemistry PhD degree, August 5, 2024, Committee Member
Giraso Keza Monia Kabandana	Chemistry PhD degree, October 4, 2023, Committee Member
Xinmei Dong	Chemistry PhD degree, December 8, 2022, Committee Member
Tao Zhang	Chemistry M.S. degree, May 2021, Committee Member
Miji Jeon	Chemistry PhD degree, November 23, 2020, Committee Chair/Advisor
Joseph Sparenberg	Chemistry M.S. degree, May 2019, Committee Chair/Advisor
Eric Languirand	Chemistry PhD degree, October 16, 2017, Committee Member
Danielle Schmitt	Chemistry PhD degree, November 15, 2017, Committee Chair/Advisor

Michael White	Chemistry PhD degree, September 15, 2016, Committee Member
Casey Kohnhorst	Chemistry M.S. degree, May 2015, Committee Chair/Advisor
Anand Sundaram	Chemistry M.S. degree, May 2015, Committee Chair/Advisor

Biology Graduate Program

Ashesh "Ace" Sharma	Molecular and Cellular Biology PhD degree, Expected in 2026, Committee Chair/Advisor
Sabeen Ikram	Biology PhD degree, June 1, 2023, Committee Member

Biochemistry Graduate Program

Winnie Sun	Biochemistry PhD degree, February 4, 2025, Committee Member
Chen Yan	Biochemistry M.S. degree, May 2022, Committee Chair/Advisor
Sausan J Taha	Biochemistry PhD degree, November 16, 2018, Committee Member
John Gidden	Biochemistry PhD degree, March 24, 2017, Committee Member
Christina Ross	Biochemistry PhD degree, September 21, 2015, Committee Member

College/University Activities

2020	Member, the Faculty and Staff Focus Group for the Innovation Lab (Topic: Development of the Alan and Wendy Wilson Innovation Lab in the Main Library at UMBC)
Dec 2019 – Jan 2020	Member, the CNMS Research Task Force, Dean's Office at UMBC (Topic: College-Level Responses to Promote Research Activities in the Campus)
2016 – 2019	Planning Committee Member for the Annual Undergraduate Research Symposium (URS) in the Chemical and Biological Sciences, University of Maryland Baltimore County, Baltimore, MD
2014 – 2024	Planning Committee Member for the Annual Undergraduate Research and Creative Achievement Day (URCAD), University of Maryland Baltimore County, Baltimore, MD
2014 – 2016	Judge at the Annual Graduate Research Conferences, University of Maryland Baltimore County, Baltimore, MD
2012 – 2019	Judge at the Annual Undergraduate Research Symposium (URS) in the Chemical and Biological Sciences, University of Maryland Baltimore County, Baltimore, MD

Professional Activities – Grant Proposal Reviewer

2023	Panel Reviewer, NIH/Fellowship Study Section, Special Emphasis Panel ZRG1 F04B-S (20) (SRO: Dr. Dennis Pantazatos; July 11-12, 2023)
2021	Panel Reviewer, NIH/NCI Study Section for Project V (P01) Program, Special Emphasis Panel ZCA1-SRB-K(O1)P (SRO: Dr. Hasan Siddiqui; June 10-11, 2021)
2020	Grant Reviewer, Agence Nationale De La Recherche (ANR; the French National Research Agency), France (June 19, 2020)

- 2020 Grant Reviewer, European Research Council (ERC), European Research Council Executive Agency, European Union (May 12, 2020)
- 2019 Panel Reviewer, NIH MSFA Study Section, Washington, DC (SRO: Dr. David Jollie; June 6-7, 2019)
- 2018 Grant Reviewer, Agence Nationale De La Recherche (ANR; the French National Research Agency), France (May 2018)
- 2017 Panelist, NSF Graduate Research Fellowships Program (January 2017)
- 2016 Early Career Reviewer, NIH MSFC Study Section, Chicago, IL (September 2016)
- 2016 Grant Reviewer, the UK Medical Research Council (January 2016)
- 2015 Panelist, NSF Graduate Research Fellowships Program (January 2015)

Professional Activities – Conference/Workshop/Session Organizer

- 2025 Co-organizer (with Drs. Kandice Levental, Dragomir Milovanovic, and Ji-long Liu), A Special Interest Subgroup session: “Cell Biology of Functional Condensates: Metabolons and Membrane Interfaces,” The Cell Bio 2025 – ASCB/EMBO Meeting, Philadelphia, PA (December 6-10, 2025)
- 2024 Chair of the Organizing Committee (with Drs. C. Chen, D. Koirala, H.K. Senevirantne, and A.T. Smith, UMBC) The 2024 Annual Frontiers at the Chemistry-Biology Interface Symposium (FCBIS), University of Maryland Baltimore County, Baltimore, MD (May 4, 2024)
- 2022 Co-organizer (with Dr. Justine Kollman, Univ of Washington-Seattle, and Dr. John Calise, Univ of Washington-Seattle), A Special Interest Subgroup session: “Organization and Regulation of Cell Metabolism by Enzyme Assemblies: Metabolons and Filaments,” The Cell Bio 2022 – ASCB/EMBO Meeting, Washington, DC (December 3-7, 2022)
- 2019 – present Multi-institutional Planning Committee, The Annual Frontiers in the Chemistry and Biology Interface Symposium (FCBIS), Mid-Atlantic Regions, USA
- 2019 – present Multi-institutional Planning Committee, The Chesapeake Bay Area Single Molecule Biology (CBASMB) Meeting, Mid-Atlantic Regions, USA
- 2019 Co-organizer (with Dr. M. Kyoung, UMBC), The 6th Chesapeake Bay Area Single Molecule Biology (CBASMB) Meeting, University of Maryland Baltimore County (UMBC), Baltimore, MD (Nov 9, 2019)
- 2017 Session Chair, 2017 Enzyme Mechanisms Conference, St. Pete Beach, FL (January 2017)
- 2015 Co-organizer (with Dr. James Fishbein (Chair) and other faculty in the Department, UMBC) The 2015 Annual Frontiers at the Chemistry-Biology Interface Symposium (FCBIS), University of Maryland Baltimore County, Baltimore, MD (May 16, 2015)
- 2014 Moderator, Keynote Forum at the 5th World Congress on Bioavailability and Bioequivalence: Pharmaceutical R&D Summit (September 2014)

Professional Activities – Editorial Board Member

- 2025 – present Associate Editor, *Experimental Cell Research* (Elsevier)
- 2023 – present Associate Editor, Cellular Biochemistry Section, *Frontiers in Molecular Biosciences*, and *Frontiers in Cell and Developmental Biology* (Frontiers Journals)
- 2023 – present Review Editor, Molecular Biophysics Section, *Frontiers in Chemistry*, *Frontiers in Molecular Biosciences*, and *Frontiers in Cell and Developmental Biology* (Frontiers Journals)

2016 – 2021	Editorial Board Member, <i>Scientific Reports</i> (Nature Publishing Group)
2014 – present	Selected K-TAG Member, <i>Global technology Cooperation Group</i> by the Korea Institute for Advancement of Technology (KIAT)
2014 – 2017	Editorial Board Member, <i>AACR-Chemistry in Cancer Research Working Group (AACR-CICR)</i>
2013 – 2022	Faculty Member, <i>F1000Prime</i> (Faculty of 1000 for Chemical Biology)

Professional Activities – External Reviewer for Promotion and Tenure

Fall 2025	External Reviewer, Promotion and Tenure Evaluation
Fall 2023	External Reviewer, Promotion and Tenure Evaluation

Manuscript Reviewer for:

Science, Nature Communication, Life Science Alliance, Trends in Pharmacological Sciences, ACS Chemical Biology, Journal of Proteome Research (ACS), Journal of Cell Science, Journal of Medicinal Chemistry, PLoS One, Applied Physics Letters, African Journal of Microbiology Research, FutureScience eBook, Analytical Chemistry (ACS), Proceedings of the National Academy of Sciences USA, Journal of Genetics and Genomics, Scientific Reports, Experimental Cell Research, Frontiers in Molecular Biosciences

Professional Societies/Associations

2019	Member, Biophysical Society (BPS)
2013 – 2022	Member, American Society for Biochemistry and Molecular Biology (ASBMB)
2012 – 2021	Member, American Association of Cancer Research (AACR)
2010 – 2025	Member, American Society for Cell Biology (ASCB)
2008 – 2014	Member, American Association of the Advancement of Science
2004 – 2005	Financial Affairs, Minnesota Chapter, Korean-American Scientists and Engineers Association (KSEA)
2003 – 2004	General Affairs, Minnesota Chapter, Korean-American Scientists and Engineers Association (KSEA)
2003 – present	Member, Korean-American Scientists and Engineers Association (KSEA)
2002 – 2021	Member, American Chemical Society (ACS)
1997 – 1999	Member, Korean Chemical Society

I certify that this document is accurate and true.



SONGON AN

October 16, 2025