

STANISLAW F. WNUK

Department of Chemistry & Biochemistry
Florida International University
Miami, FL 33199

Phone: (305) 348-6195
E-mail: wnuk@fiu.edu
<http://faculty.fiu.edu/~wnuk>

EDUCATION:

1995	Habilitation	Chemistry, Organic and Bioorganic Chemistry. Adam Mickiewicz University, Poznan, Poland.
1983	Ph.D.	Chemistry, Organic Chemistry. Adam Mickiewicz University, Poznan, Poland.
1976	B.Sc./M.Sc.	Chemistry, Technology of Organic Synthesis. Polytechnic University of Poznan, Poland.

PROFESSIONAL EMPLOYMENT:

1997-*	Florida International University: Professor of Chemistry, Chair (2002-2008). Department of Environmental & Occupational Health, Interim Chair (2013-2014) Associate Dean for Research (2014-2018) & Graduate Education (2018-present), Robert Stempel College of Public Health & Social Work (2014-present)
1990-97	Brigham Young University, Department of Chemistry and Biochemistry, Provo, UT: Visiting Professor (1990), Research Associate in Chemistry (1992), Research Associate Professor of Chemistry (1994).
1985-86	University of Alberta, Department of Chemistry, Edmonton, Canada: Post-doctoral Fellow in Chemistry.
1983-90	University of Life Sciences, Chemistry Department, Poznan, Poland: Assistant (1983), Assistant Professor (1986).

RESEARCH INTERESTS:

Organic chemistry of nucleosides with applications in biochemistry and in anticancer and antiviral medicine. Research involving invention of mechanism-based inhibitors of enzymes vital to cancer cell and/or virus proliferation, and collaborative biochemical evaluation and imaging. Another area focuses on new fluorination, radical desulfonation, and Pd-catalyzed cross-coupling methodologies including methods for direct C-H bond functionalization.

AWARDS/HONORS:

1984	Polish Ministry of Education Award for the Outstanding Ph.D. Thesis
1988	University of Life Sciences, Teaching Award
1989	Polish Ministry of Education Research Award
2000	Florida International University Faculty Award for Excellence in Research
2003	Florida International University, Graduate Faculty
2004	Florida International University, Honors College Research Faculty
2004	McNair Post Baccalaureate Achievement Program Faculty
2008	Honorary Professorship in Chemistry bestowed by the President of Polish Republic
2012	Florida International University Provost Award for Excellence in Mentorship
2015	Associate Deans for Research & Graduate Studies Council-FIU
2016	Biomolecular Sciences Institute-FIU Advisory Board

PROFESSIONAL SOCIETIES:

Polish Chemical Society (1980)
American Chemical Society, Carbohydrate and Organic Divisions (1997)
International Society for Nucleosides, Nucleotides and Nucleic Acids (2000)
COST Chemistry CM0603, Free Radicals in Chemical Biology (2009)
Guest Editor for *Nucleosides Nucleotides & Nucleic Acids* (2009)

RESEARCH SUPPORT:

American Heart Association, Florida & Puerto Rico Affiliate.
NIH (MBRS RISE, MARC-U*STAR, SCORE and SC1 programs)
NSF (REU program)
DOD Instrumentation Program for Hispanic-Serving Institutions
Diazyme Laboratories, San Diego, CA.
Sunol Molecular Corporation, Miramax, FL
Walter Reed Army Institute of Research, Silver Spring, MA
Oversea Scholarship Program of Shaanxi Normal University
European Union/Wroclaw University Internship Program

COURSES TAUGHT: Organic Chemistry, Advanced Organic Chemistry, Spectroscopic Techniques and Structure Elucidation, Organic Synthesis, Organic Chemistry of Nucleic Acids.

MENTORING: In my over 22 year's career at FIU, I have mentored a number of undergraduate (75), and graduate (30) students as well as visiting research associates (15) from around the world.

PUBLICATIONS (ca 160) mainly in major international journals. Oral presentations, published abstracts & proceedings of scientific meetings lectures (ca. 140) and invited lectures (ca. 70).

162. L. Zhao, S. Doddipatla, R. I. Kaiser, W. Lu, O. Kostko, M. Ahmed, L. B. Tuli, A. N. Morozov, A. H. Howlader, S. F. Wnuk, A. M. Mebel, V. N. Azyazov, R. K. Mohamed, F. R. Fischer, "Gas Phase Synthesis of Corannulene – A Molecular Building Block of Fullerenes – in Circumstellar Envelopes" *Phys. Chem. Chem. Phys.* (Submitted)
161. M. Mudgal, D. A. Lumpuy, A. J. Sobczak, T. P. Dang, N. Sulimoff, P. Dutta, S. Ward, K. Ward, M. Alahmadi, A. Kumar, M. D. Sevilla, S. F. Wnuk, and A. Adhikary, "Site of Azido Substitution in the Sugar Moiety of Azidopyrimidine nucleosides Influences the Reactivity of Aminyl Radicals Formed by Dissociative Electron Attachment", *J. Phys. Chem B.* **2020**, *124*, 11357-11370;
<https://dx.doi.org/10.1021/acs.jpccb.0c08201>
160. A. H. Howlader and S. F. Wnuk, "Synthesis of iodoindenes." *Patent Disclosure*, FIU, May, 2020; D2020-0010.
159. L. Zhao, R. I. Kaiser, W. Lu, O. Kostko, M. Ahmed, M. M. Evseev, E. K. Bashkirow, A. D. Oleinikov, V. N. Azyazov, A. M. Mebel, A. H. Howlader, S. F. Wnuk, "Gas Phase Formation of Cyclopentanaphthalene (Benzindene) Isomers via Reactions of 5- and 6-Indenyl Radicals with Vinylacetylene". *Phys Chem Chem Phys.*, **2020**, *22*, 22493-22500. <https://doi.org/10.1039/D0CP03846F>
158. A. H. Howlader, K. Diaz, A. M. Mebel, R. I. Kaiser, S. F. Wnuk, "Iodoindenes: Synthesis and application to cross-coupling." *Tetrahedron Lett.* **2020**, *61*,1524-1527. <https://doi.org/10.1016/j.tetlet.2020.152427>
157. B. P. Rosen, S. F. Wnuk, Masafumi Yoshinaga, A. H Howlader, S. H. Suzol, "Synthesis of the organoarsenical antibiotic arsinothricin and derivatives thereof." Patent Disclosure, FIU, April, 2020; D2019-0060
156. S. H. Suzol,[‡] A. H. Howlader,[‡] A. E. Galván, M. Radhakrishnan, S. F. Wnuk, B. P. Rosen, and M. Yoshinaga, "Semisynthesis of the organoarsenical antibiotic arsinothricin". *J. Nat. Prod.* **2020**, *83*, 2809-2813. <https://dx.doi.org/10.1021/acs.jnatprod.0c00522>
155. L. Zhao, R. I. Kaiser, W. Lu, M Ahmed, A. D. Oleinikov, V. N. Azyazov, A. M. Mebel, A. H. Howlader, S. F. Wnuk, "Gas Phase Formation of Phenalene via 10 π -Aromatic, Resonantly Stabilized Free Radical Intermediates". *Phys Chem Chem Phys.* **2020**, *22*, 15381-15388. <http://dx.doi.org/10.1039/D0CP02216K>

154. S. F. Wnuk, M. Mudgal, I. Nowak, M. J. Robins, "Model Substrate/Inactivation Reactions for MoeA and Ribonucleotide Reductases: Loss of Bromo, Chloro, or Tosylate Groups from C2 of 1,5-Dideoxyhomoribofuranoses upon Generation of an α -Oxy Radical at C3." *Molecules* **2020**, *25*, 2539; <https://doi.org/10.3390/molecules25112539>
153. Y. Liang, Z.-W. Wen, M. de Cabrera, A. H. Howlader, S. F. Wnuk, "Purines" in *Science of Synthesis, Knowledge Updates 2020/1*, Chapter 16.17.7; **2020**, pp 195-384. Georg Thieme Verlag KG, Stuttgart, Germany. DOI: [10.1055/sos-SD-116-01081](https://doi.org/10.1055/sos-SD-116-01081)
152. L. Zhao, R. I. Kaiser, W. Lu, B. Xu, M. Ahmed, A. N. Morozov, A. M. Mebel, A. H. Howlader, S. F. Wnuk, "Molecular Mass Growth through Ring Expansion in Polycyclic Aromatic Hydrocarbons via Radical-Radical Reactions" *Nature Commun.* (2019) *10*:3689; <https://doi.org/10.1038/s41467-019-11652-5>.
151. L. Zhao, M. B. Prendergast, R. I. Kaiser, B. Xu, U. Ablikim, W. Lu, M. Ahmed, A. D. Oleinikov, V. N. Azyazov, A. H. Howlader, S. F. Wnuk, A. M. Mebel, "How to Add a Five-Membered Ring to Polycyclic Aromatic Hydrocarbons (PAHs) – Molecular Mass Growth of the 2-Naphthyl Radical (C₁₀H₇) to Benzindenes (C₁₃H₁₀) as a Case Study". *Phys. Chem. Chem. Phys.* **21**, 16737-16750 (2019).
150. L. Zhao, M. B. Prendergast, R. I. Kaiser, B. Xu, W. Lu, U. Ablikim, M. Ahmed, A. D. Oleinikov, V. N. Azyazov, A. M. Mebel, A. H. Howlader, S. F. Wnuk, "Reactivity of the Resonantly Stabilized 1-Indenyl Radical (C₉H₇) with Acetylene (C₂H₂) to 1-Ethynylindene (C₉H₇CCH). *ChemPhysChem.* **20**, 1437-1447 (2019). DOI [10.1002/cphc.201900052](https://doi.org/10.1002/cphc.201900052)
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148. Z.-W Wen, P. R. Tuttle, A. H. Howlader, A. Vasilyeva, L. Gonzales, A. Tangar, R. Lei, E. E. Laverde, Y. Liu, J. Miksovska, S. F. Wnuk, "Fluorescent 5-Pyrimidine and 8-Purine Nucleosides Modified with N-unsubstituted 1,2,3-Triazol-4-yl Moiety." *J. Org. Chem.* **84**, 3624-3631 (2019)
147. L. Zhao, B. Xu, U. Ablikim, W. Lu, M. Ahmed, M. M. Evseev, E. K. Bashkirov, V. N. Azyazov, A. H. Howlader, S. F. Wnuk, A. M. Mebel, R. I. Kaiser, "Gas Phase Synthesis of Triphenylene (C₁₈H₁₂)."
ChemPhysChem. **20**, 791-791 (2019)
146. Z.-W. Wen, J. Peng, P. R. Tuttle, Y. Ren, C. Garcia, D. Debnath, S. Rishi, C. Hanson, S. Ward, A. Kumar, Y. Liu, W. Zhao, P. M. Glazer, Y. Liu, M. D. Sevilla, A. Adhikary, S. F. Wnuk, "Electron-mediated Aminyl and Iminyl Radicals from C5 Azido-Modified Pyrimidine Nucleosides Augment Radiation Damage to Cancer Cells." *Org. Lett.* **20**, 7400-7404 (2018). <https://doi.org/10.1021/acs.orglett.8b03035>
145. J. Pulido, M. de Cabrera, A. J. Sobczak, A. Amor-Coaras, A. J. McGoron, S. F. Wnuk, "4-N-Alkanoyl and 4-N-Alkyl Gemcitabine Analogues with NOTA Chelators for 68-Gallium Labelling" *Bioorg. Med. Chem.* **26**, 5624-5630 (2018). <https://doi.org/10.1016/j.bmc.2018.10.007>
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143. V. L. Malladi, A.J. Sobczak, L. Schneper, K. Mathee, S. F. Wnuk, "2-Methylthiopyrrolidines and their use for modulating bacterial quorum sensing" *Patent No.: US 9,951,007 B2*; 2018
142. Cesar Gonzalez, Maria de Cabrera, and Stanislaw F. Wnuk, "Gemcitabine Analogues with 4-N-Alkyl Chain Modified with Fluoromethyl Ketone Group", *Nucleosides Nucleotides Nucleic Acids.* **9**, 2620-2626 (2018). <https://doi.org/10.1080/15257770.2018.1465186>
141. L. Zhao, R. I. Kaiser, B. Xu, M. Ahmed, M. V. Zagidullin, V. N. Azyazov, A. H. Howlader, S. F. Wnuk and A. M. Mebel, "A VUV Photoionization Study on the Formation of the Simplest Polycyclic Aromatic Hydrocarbon: Naphthalene (C₁₀H₈)", *J. Phys. Chem. Lett.* **9**, 2620-2626 (2018). <https://pubs.acs.org/doi/pdf/10.1021/acs.jpcllett.8b01020>

140. S. H. Suzol, A. H. Howlader, Y. Ren, C. Garcia, Y. Liu, and S. F. Wnuk, "Pyrimidine Nucleosides with Reactive (β -Chlorovinyl)sulfone or (β -Keto)sulfone Group at C5 Position and Their Polymerase-catalyzed Incorporation into DNA", *ACS Omega*. **3**, 4276-4288 (2018).
<https://pubs.acs.org/doi/10.1021/acsomega.8b00584>
139. C. Gonzalez, A. Sanchez, J. Collins, K. Lisova, J. T. Lee, R. M. van Dam, M. A. Barbieri, C. Ramachandran, S. F. Wnuk, "The 4-*N*-Alkyl Gemcitabine Analogues with Silicon-Fluoride-Acceptor: Application to 18-Fluorine Radiolabeling", *Eur. J. Med. Chem.* **148**, 314-324 (2018);
<https://doi.org/10.1016/j.ejmech.2018.02.017>.
138. M. Mudgal, S. Rishi, D. A. Lumpuy, K. A. Curran, K. L. Verley, A. J. Sobczak, T. P. Dang, N. Sulimoff, A. Kumar, M. D. Sevilla, S. F. Wnuk, A. Adhikary, "Prehydrated One-Electron Attachment to Azido-Modified Pentafuranoses: Aminyl Radical Formation, Rapid H-Atom Transfer and Subsequent Ring Opening." *J. Phys. Chem. B.* **121**, 4968-4980 (2017); <http://pubs.acs.org/doi/abs/10.1021/acs.jpcc.7b01838>
137. Z.-W. Wen, S. H. Suzol, J. Peng Y. Liang, R. Snoeck, G. Andrei, S. Liekens, S. F. Wnuk, "Antiviral and Cytostatic Evaluation of 5-(1-Halo-2-Sulfonylviny) and 5-(2-Furyl) Uracil Nucleosides." *Arch. Pharm. Chem. Life Sci.* **350**, e1700023 (2017). DOI [10.1002/ardp.201700023](https://doi.org/10.1002/ardp.201700023).
136. Q. He, L.-W. Wang, Y. Liang, Z.-T. Zhang, S. F. Wnuk, "Transition-metal-free cross-coupling of aryl halides with arylstannanes." *J. Org. Chem.* **81**, 9422-9427 (2016). DOI: [10.1021/acs.joc.6b01648](https://doi.org/10.1021/acs.joc.6b01648).
135. S. Kavooosi, R. Rayala, B. Walsh, M. Barrios, W. G. Gonzalez, J. Miksovska, L. Mathivathanan, R. G. Raptis, S. F. Wnuk, "Synthesis of 8-(1,2,3-triazol-1-yl)-7-deazapurine nucleosides by azide-alkyne click reactions and direct C-H bond functionalization." *Tetrahedron Lett.* **57**, 4364-4367 (2016).
<http://dx.doi.org/10.1016/j.tetlet.2016.08.053>
134. C. Gonzalez, S. Kavooosi, A. Sanchez. S. F. Wnuk, "Reduction of Sugar Lactones to hemiacetals with Lithium Triethylborohydride." *Carbohydr. Res.* **432**, 17-22 (2016).
<http://dx.doi.org/10.1016/j.carres.2016.06.002>
133. Y. Liang, S. H. Suzol, Z. Wen, A. G. Artiles, L. Mathivathanan, R. Raptis, S. F. Wnuk, "Uracil Nucleosides with Reactive Group at C5 position: 5-(1-Halo-2-sulfonylviny)uridine Analogues." *Org. Lett.* **18**, 1418-1421 (2016). <http://doi:10.1021/acs.orglett.6b00346>
132. R. Rayala, A. Giuglio-Tonolo, J. Broggi, T. Terme, P. Vanelle, P. Theard, M. Médebielle, S. F. Wnuk, "Studies toward the oxidative and reductive activation of C-S bonds in 2'-*S*-aryl-2'-thiouridine derivatives." *Tetrahedron*, **72**, 1969-1977 (2016). <http://dx.doi.org/10.1016/j.tet.2016.02.063>
131. C. Chbib, A. J. Sobczak, M. Mudgal, C. Gonzalez, D. Lumpuy, J. Nagaj, K. Stokowa-Soltys, S. F. Wnuk, "S-Ribosylhomocysteine Analogues Modified at the Ribosyl C-4 Position." *J. Sulfur Chem.* **37**, 307-327 (2016).
<http://dx.doi.org/10.1080/17415993.2015.1137921>
130. A. J. Sobczak, C. Chbib, S. F. Wnuk, "S-Ribosylhomocysteine Analogs Containing a [4-Thio]ribose Ring" *Carbohydr. Res.* **415**, 39-47 (2015). <http://doi:10.1016/j.carres.2015.07.005>
129. J. Zayas, M. Annoual, J. K. Das, Q. Felty, W. G. Gonzalez, J. Miksovska, N. Sharifai, A. Chiba, S. F. Wnuk, "Strain Promoted Click Chemistry of 2- or 8-Azidopurine and 5-Azidopyrimidine Nucleosides and 8-Azidoadenosine Triphosphate with Cyclooctynes. Application to Living Cell Fluorescent Imaging." *Bioconjug. Chem.* **26**, 1519-1532 (2015). <http://doi:10.1021/acs.bioconjchem.5b00300>
128. Y. Liang, S. F. Wnuk, "Modification of Purine and Pyrimidine Nucleosides by Direct C-H Bond Activation" *Molecules*, **20**, 4874-4901 (2015). <http://doi:10.3390/molecules20034874>
127. A. Adhikary, A. Kumar, R. Rayala, R. M. Hindi, A. Adhikarya, S. F. Wnuk, and M. D. Sevilla, "A One-electron oxidation of Gemcitabine and analogs: Mechanism of formation of C3' and C2' sugar radicals." *J. Am. Chem. Soc.* **136**, 15646-15653 (2014); <http://pubs.acs.org/doi/pdf/10.1021/ja5083156n>
126. R. Rayala, P. Theard, H. Ortiz, S. Yao, J. D. Young, J. Balzarini, M. J. Robins, S. F. Wnuk, "Synthesis of Purine and 7-Deazapurine Nucleoside Analogues of 6-N-(4-Nitrobenzyl)adenosine; Inhibition of Nucleoside

Transport and Proliferation of Cancer Cells." *ChemMedChem*. **9**, 2186-2192 (2014).

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125. Y. Liang, J. Gloudeman, S. F. Wnuk, "Palladium-Catalyzed Direct Arylation of 5-Halouracils and 5-Halouracil Nucleosides with Arenes and Heteroarenes Promoted by TBAF." *J. Org. Chem.* **79**, 4094-4103 (2014). <http://dx.doi.org/10.1021/jo500602p>
124. M. Zhu, Z.-T. Zhang, D. Xue, H. Hua, Y. Liang, S. F. Wnuk, "Synthesis of 1-Amino-3-cyano-5,6-diaryl-2-pyridones and 6,7-diaryl-4-Cyano-3-hydroxy-1*H*-1,2-diazepines from Isoflavones" *Helv. Chim. Acta.* **97**, 561-568, (2014). <http://onlinelibrary.wiley.com/doi/10.1002/hlca.201300246/abstract>
123. A. Díaz, E. Martínez, L. Puerta, D. Méndez, E. Rodríguez, L. Fang, S. Wnuk, R. Vivas-Reyes, "CoMSIA study to design antagonist ligands for LuxS protein" *New J. Chem.* **38**, 1235-1249 (2014). <http://dx.doi.org/10.1039/c3nj01162c>
122. J. Pulido, A. Sobczak, J. Balzarini, S. F. Wnuk, "Synthesis and Cytostatic Evaluation of 4-*N*-Alkanoyl and 4-*N*-Alkyl Gemcitabine Analogues." *J. Med. Chem.* **57**, 191-203 (2014). <http://dx.doi.org/10.1021/jm401586a>
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117. T. P. Dang, A. J. Sobczak, A. M. Mebel, C. Chatgililoglu, S. F. Wnuk, "Investigation of reactions postulated to occur during inhibition of ribonucleotide reductases by 2'-azido-2'-deoxynucleotides." *Tetrahedron*, **68**, 5665-5667 (2012).
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- Chloro(phenyl)germanes with their Corresponding Stannane and Silane Counterparts." *J. Org. Chem.* **75**, 8199-8212 (2010).
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105. S. F. Wnuk, P. R. Sacasa, J. Restrepo, "Application of germyldesulfonylation reactions to the synthesis of germanium-containing nucleoside analogues" *Nucleosides Nucleotides & Nucleic Acids*, **24**, 537-549 (2009).
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18. M. J. Robins, F. Hansske, S. F. Wnuk and T. Kanai, "Nucleic Acid Related Compounds. 66. Improved syntheses of 5'-chloro-5'-deoxy- and 5'-*S*-aryl(or alkyl)-5'-thionucleosides", *Can. J. Chem.*, **69**, 1468-1474 (1991).
17. S. F. Wnuk and M. J. Robins, "Nucleic Acid Related Compounds. 63. Synthesis of 5'-deoxy-5'-methyleneadenosine and related Wittig-extended nucleosides", *Can. J. Chem.*, **69**, 334-338 (1991).

16. S. F. Wnuk and M. J. Robins, "Reactivity of Uridine 5'-Silylphosphites in Arbuzov Reactions", *Roczniki Akademii Rolniczej w Poznaniu CCXXIII*, 61-69 (1991).
15. S. Kinastowski, E. Kaczmarek, S. Wnuk, "The Rearrangement of *ortho*-Nitro-benzylidenemalonates Derivatives in Reaction with Thiols", *Pol. J. Chem.* **64**, 595-605 (1990).
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12. S. Wnuk, E. Wyrzykiewicz, E. Kaczmarek, S. Kinastowski, "Carbon-13 Chemical Shift Assignments of Derivatives of Benzoic Acid", *Magn. Reson. Chem.* **28**, 271-280 (1990).
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10. M. J. Robins and S. F. Wnuk "Fluorination at C5' of Nucleosides. Synthesis of the New Class of 5'-Fluoro-5'-S-Aryl(Alkyl)thionucleosides from Adenosines", *Tetrahedron Lett.* **29**, 5729-5732 (1988).
9. P. Golinski, S. Wnuk, J. Chelkowski, M. Schollenberger "Formation of Avenacein Y by *Fusarium avenaceum* Fries Sacc. Isolates from Poland and Biological Properties of the Compound" *Mycotoxins Research*, Special Edition, European Seminar '*Fusarium-mycotoxins, taxonomy, pathogenicity*', (Warsaw 1987), 49-52 (1988).
8. P. Golinski, S. Wnuk, M. Manka, P. Lepom, M. Kloss, "Formation of Avenacein Y by *Fusarium avenaceum* Fries Sacc. Isolates from Germany and Pathogenicity of the Isolates to Cereal Seedling", *Mycotoxins Research*, Special Edition, European Seminar '*Fusarium-mycotoxins, taxonomy, pathogenicity*', (Warsaw 1987), 46-48 (1988).
7. S. Kinastowski, S. Wnuk, E. Kaczmarek, "The Rearrangement of *ortho*-Nitrobenzylidenemalonate Derivatives in Reactions with Amines. Applications to Organic Synthesis", *Synthesis* 111-118 (1988)
6. C. P. Gorst-Allman, P. H. van Rooyen, S. Wnuk, P. Golinski, J. Chelkowski, "Structural elucidation of an antibiotic from the fungus *Fusarium avenaceum* Fries Sacc., an amended structure for laterpyrone", *S. Afr. J. Chem.* **39**, 116-117 (1986).
5. P. Golinski, S. Wnuk, J. Chelkowski, A. Visconti, M. Schollenberger, "Antibiotic Y: Biosynthesis by *Fusarium avenaceum* (Corda ex Fries) Sacc., Isolation, and Some Physicochemical and Biological Properties", *Appl. Environ. Microbiol.* **51**, 743-745 (1986).
4. J. Slawinski, S. Wnuk, "Wplyw promieniowania UV na aktywnosc hemoproteidow w modelowym ukladzie luminol-H₂O₂-OH", (The influence of UV-Radiation on the activity of hemoproteins in the model system luminol-H₂O₂-OH) *Zeszyty Problemowe Postepu Nauk Rolniczych PAN* **271**, 307-313 (1984).
3. S. Kinastowski, S. Wnuk, "2,4-Dinitrobenzaldehyd in Knoevenagel Condensation", *Pol. J. Chem.* **57**, 625-627 (1983).
2. S. Wnuk, S. Kinastowski, E. Kaminski, "Synthesis and analysis of 1-octen-3-ol, the main flavour component in mushrooms", *Nahrung* **27**, 479-486 (1983).
1. S. Kinastowski, S. Wnuk, "A Convenient One-Step Synthesis of Ethyl 2-[N-(Diethoxycarbonyl)(ethoxy)-methyl]amino-4-nitrobenzoate and Analogues by Rearrangement of 2,4-Dinitrobenzylidenemalonates", *Synthesis* 654-659 (1983).

INVITED LECTURE/SEMINARS (2000-present):

Aug. 2000	ACS National Meeting, Carbohydrate and Organic Divisions, Washington, D.C.
Mar. 2001	Chemistry Department, Washington State University, Pullman, WA
Apr. 2001	Institute of BioOrganic Chemistry, Polish Academy of Sciences, Poznan, Poland
July 2001	The 12 th European Symposium on Organic Chemistry, Groningen, Holland

July 2001 Chemistry Department Seminar, Adam Mickiewicz University, Poznan, Poland
 Oct. 2001 Chemistry Department Seminar, Florida International University, Miami, FL
 Apr. 2002 ACS National Meeting, Division of Carbohydrate Chemistry, Orlando, FL.
 Nov. 2002 Biological Sciences Departmental Seminar, Florida International University, Miami, FL
 Nov. 2002 ACS South Florida Seminar Series, Miami, FL
 Feb. 2003 Chemistry Department Seminar, Florida State University, Tallahassee, FL
 Mar. 2003 ACS National Meeting, Division of Carbohydrate Chemistry, New Orleans, LA., 2003;
 Apr. 2003 1st Conference on Developments in Nucleic Acids: Chemistry, Pharmacology and Medicine.
 Atlanta, GA
 Oct. 2003 Chemistry Department Seminar, University of Florida, Gainesville, FL
 Mar. 2004 ACS National Meeting, Organic Chemistry Division, Anaheim, CA.
 Mar. 2004 Annual Organic Faculty of Florida Meeting, Orlando, FL.
 July 2004 22nd International Carbohydrate Symposium, Glasgow, July.
 Mar. 2005 ACS National Meeting, Carbohydrate Division, San Diego, CA
 Nov. 2005 Chemistry Department Seminar, Jackson State University, Jackson, MI
 Dec. 2005 PacifiChem 2005, Symposium of Organic Reactions of Main Group Metal compounds,
 Honolulu, HI.
 Mar. 2006 Chemistry Department Seminar, University of Miami, Miami, FL
 Mar 2006 ACS National Meeting, Carbohydrate Division, Atlanta, GA.
 Apr. 2006 Annual Organic Faculty of Florida Meeting, Tampa, FL.
 Sept. 2006 17th International Round Table Symposium on Nucleosides, Bern, Switzerland
 Nov. 2006 ACS Southeastern Regional Meeting, Augusta, GA
 Mar. 2007 ACS National Meeting, Carbohydrate Division (Zamoyski Symposium), Chicago, IL
 May 2007 Retirement Celebration Seminar for Dr. Robins, Brigham Young University, Provo, UT
 Aug. 2007 China Pharmaceutical University, Nanjing, China
 Nov. 2007 Chemistry Department Seminar, Florida Atlantic University, Boca Raton, FL
 Mar. 2008 ACS National Meeting, Medicinal Chemistry Division, New Orleans, LA., 2008
 March 2009 ACS National Meeting, Carbohydrate Division, Salt lake City, UT, 2009
 Sept. 2009 The annual meeting of the management and the scientific meeting for COST Chemistry
 CM0603 for free radicals in chemical biology. Gniezno, Poland, September 2009.
 Apr 2010 Chemistry Department Seminar, Oakland University, Rochester, MI
 June 2010 Chemistry Department Seminar, Shaanxi Normal University, Xi'an, China
 June 2010 Chemistry & Material Sciences Department Seminar, Jiaotong University, Xi'an, China
 Sep 2010 19th IRT Conference on Nucleosides, Nucleotides and Nucleic Acids, Lyon, Fr
 Dec 2010 European Union -Adam Mickiewicz University Seminar Open Lecture Series, Poznan, PL
 March 2011 ACS National Meeting, Organic/Carbohydrate Divisions, San Diego, CA.
 July 2012 19th IUPAC Int. Conference on Organic Synthesis (ICOS) in Melbourne, Australia.
 Feb 2013 Chemistry and Biological Sciences Department Seminar, Ave Maria University, FL
 Apr. 2013 ACS National Meeting, Carbohydrate Division, New Orleans, LA
 Aug. 2013 44th IUPAC Word Chemistry Congress, Istanbul, Turkey
 Oct. 2013 Chemistry Department Seminar, Florida Atlantic University, Boca Raton, FL
 Sept. 2014 21st International Round Table Symposium on Nucleosides, Poznan, Poland
 Feb. 2016 Chemistry Department Seminar, University of Miami, Miami
 Oct 2017 Pharmaceutical Sciences Department Seminar, Wilkes University, Wilkes-Barre, PA
 July 2018 29th International Carbohydrate Symposium, Lisbon, Portugal
 Aug. 2018 23rd International Round Table Symposium on Nucleosides ns Nucleotides, San Diego, CA

PRESENTATIONS ON SCIENTIFIC MEETINGS

1. J. Sławinski, S. Wnuk: "Wpływ promieniowania UV na aktywność Cytochromu C w modelowym układzie luminol-H₂O₂-OH." Szkoła Wiosenna nt: Aktualne problemy fotobiologii; Lublin, 1979. (lecture)
2. S. Kinastowski, S. Wnuk: "Z badań nad mechanizmem reakcji Knoevenagela." Mat. Zjazdu Nauk. PTCh i SITPChem; Krakow, 1980, str. 187. (poster)
3. S. Kinastowski, S. Wnuk: "Nowe aspekty reakcji Knoevenagela pomiędzy 2,4-dinitrobenzaldehydem i estrem malonowym." Mat. Zjazdu Nauk. PTCh i SITPChem; Krakow, 1980, str. 187. (poster)
4. S. Wnuk, S. Kinastowski, E. Kaminski: "Possibilities of synthesis of 1-octen-3-ol; the main flavour component in mushrooms." International Symposium: Flavor Research Concepts and Methods. Programme and abstracts; Rydzyna, 1981, p. 25. (poster)
5. S. Kinastowski, S. Wnuk: "O nienormalnej reakcji Michaela 2,4-dinitrobenzylideno-malonianu dietylu." Mat. Zjazd. Nauk. PTCh i SITPChem; Lublin, 1982, zeszyt B, str. 216. (poster)
6. S. Kinastowski, S. Wnuk: "Badanie mechanizmu przegrupowania estrow kwasu 2,4-dinitrobenzylidenomalonowego." Mat. Zjazdu Nauk. PTCh i SITPChem; Lublin 1982, zeszyt B, str. 215. (poster)
7. S. Kinastowski, S. Wnuk, E. Kaczmarek: "Stadium aldolowe reakcji pomiędzy para podstawionymi benzaldehydami i estrem malonowym." Mat. Zjazdu Nauk PTCh i SITPChem; Lublin, 1982, zeszyt B, str. 217. (poster)
8. S. Kinastowski, S. Wnuk: "Metody syntezy pochodnych kwasu 2-amino-4-nitrobenzoesowego." Mat. III srod. Konf. Chem. Oddziału PAN; Poznan, 1983, str. 61. (poster)
9. S. Kinastowski, S. Wnuk: "A new method for the preparation of 2-Amino-4-nitrobenzoic acid and derivatives." Abstract in 3rd Conference of young scientists on organic and bioorganic chemistry; Bechyne, Czechoslovakia, 1984, p. 72. (lecture)
10. S. Kinastowski, S. Wnuk: "Diethyl 2,4-dinitrobenzylidenomalonates as a protection reagent for sugar". Abstract in IUPAC 14th Intern. Symposium on the Chemistry of Natural Products; Poznan, Poland, 1984, p. 337. (poster)
11. P. Golinski, J. Chelkowski, S. Wnuk: "Avenacein Y.–Biosynthesis, extraction, purification and some physicochemical properties of a new toxin produced by *Fusarium* species." Abstract in IUPAC 14th Intern. Symposium on the Chemistry of Natural Product; Poznan, Poland, 1984, p. 205. (poster)
12. S. Wnuk, S. Kinastowski: "Rearrangement of 2,4-dinitrobenzylidenomalonates in the presence of thiols." Abstract in 11th International Symposium on the Organic Chemistry of Sulphur; Lindau, West Germany, 1984, p B I, 41 P. (poster)
13. S. Kinastowski, S. Wnuk: "Syntetyczne wykorzystanie przegrupowania 2,4-dinitrobenzylideno malonianow pod wpływem amin." Doroczny Zjazd PTCh i SITPChem; Poznan, 1985. (lecture)
14. P. Golinski, S. Wnuk, J. Chelkowski: "Avenacein Y: Nowy antybiotyk tworzony przez grzyb *Fusarium Avenaceum*." Mat. Dorocznego Zjazdu PTCh; Opole, 1986, str. 119. (poster)
15. P. Golinski, Z. Kubzdela, S. Wnuk, H. Mroz, J. Chelkowski, K. Szczebiotko: "Biosynteza Avenaceiny Y na różnych podłożach z wykorzystaniem szczepu *Fusarium Avenaceum* Corda ex Fries Saccardo." Mat. XVII Sesji Naukowej Komitetu Technologii Chemii Żywności PAN nt. Doskonalenia Procesów Biotechnologicznych w Przemysle Spożywczym; Lodz, 1986, str. 494. (lecture)
16. P. Golinski, S. Wnuk, P. Lepom, J. Chelkowski, H. Kloss and M. Schollenberger: "Avenacein Y–formation by *F. avenaceium* (Fr). Sacc. and its biological properties." Abstracts in European Seminar Fusarium- Mycotoxins Taxonomy, Pathogenicity; Warsaw, 1987, p. 5. (lecture)
17. S. Kinastowski, S. Wnuk, E. Kaczmarek: "Rozszerzenie zakresu przegrupowania 2,4-dinitrobenzylidenomalonianow na nowe układy benzylidenowe." Mat. Dorocznego Zjazdu Naukowego PTCh; Lodz, 1988, zeszyt A, str. 69. (poster)

18. S. Kinastowski, E. Kaczmarek, S. Wnuk: "Syntetyczne wykorzystanie przegrupowania 2,4-dinitro i 2,4,6-trinitrobenzylidenomalonianow dialkilu pod wpływem tioli." Mat. Dorocznego Zjazdu Naukowego PTCh; Lodz, 1988, zeszyt A, str. 71. (poster)
19. M. J. Robins, S. F. Wnuk, K. B. Mullah: "Carbohydrate Modifications of Naturally Occurring Nucleosides." Mat. V European Symposium on Carbohydrates "Eurocarb V"; Praga, 1989, p. 5. (lecture)
20. S. F. Wnuk, M. J. Robins: "Synthesis of *E* and *Z* 5'-Deoxy-5'-Halomethylene Nucleosides via Vinyltin Intermediates." ACS 203rd National Meeting; San Francisco, Ca, April, 1992. (poster)
21. M. J. Robins, S. F. Wnuk, K. B. Mullah, N. K. Dalley, R. T. Borchardt, Y. Lee; C.-S. Yuan: "Synthesis and enzyme-inhibitory activity of nucleoside α -halo thioethers." ACS 203rd National Meeting; San Francisco, Ca, April, 1992. (lecture)
22. M. J. Robins, S. F. Wnuk: "Selected Aspects of Sulfur Nucleoside Chemistry and Biochemistry." Abstract in 15th International Symposium on the Organic Chemistry of Sulphur; Magderburg, Germany, 1994. (lecture)
23. R. T. Borchardt, C.-S. Yuan, S. Liu, S. F. Wnuk, M. Robins: "Rational Approaches to the Design of Mechanism-Based Inhibitors of *S*-Adenosylhomocysteine Hydrolase." 11th International Roundtable on Nucleosides, Nucleotides and Their Biological Applications; Leuven, Belgium, 1994. (lecture)
24. C.-S. Yuan, S. F. Wnuk, S. Liu, M. J. Robins, R. T. Borchardt: "(*E*)-5',6'-Didehydro-6'-Deoxy-6'-Fluoro-Homoadenosine (EDDFHA): A Substrate that Measures the Hydrolytic Activity of *S*-Adenosyl-L-Homocysteine (AdoHcy) Hydrolase." American Society for Biochemistry and Molecular Biology: 85th Annual Meeting, Washington, D.C. 1994. A1412/P891 (poster)
25. S. Wnuk, M. J. Robins: "Synthesis and Biological Activity of Aldehydes and Oximes Derived from Adenosine and Sugar-modified Analogues." ACS Northwest & Rocky Mountain Regional Meeting; Park City, Utah, 1995, p. 128. (lecture)
26. V. Neshchadimenko, S. F. Wnuk, M. J. Robins: "Probing Hydrolytic Activity of *S*-Adenosyl-L-Homocysteine Hydrolase." XII International Roundtable: Nucleosides, Nucleotides and Their Biological Applications; La Jolla, California, 1996, p. 115. (poster)
27. Z. Guo, R. Zou, S. F. Wnuk, M. J. Robins: "Synthesis of Guanine Nucleosides via Regioselective Glycosylations." XII International Roundtable: Nucleosides, Nucleotides and Their Biological Applications; La Jolla, California, 1996, p. 90. (poster)
28. S. F. Wnuk, M. J. Robins: "Stannyl Radical-mediated Cleavage of π -Deficient Heterocyclic Sulfones. Synthesis of α -Fluoro Esters and the First Homonucleosides α -Fluoromethylene Phosphonate." 11th International Conference on Organic Synthesis (ICOS-11). Amsterdam, The Netherlands, 1996. PO-023. (poster)
29. H. Huang, C.-S. Yuan, R. T. Borchardt, S. F. Wnuk, M. J. Robins: "The Mechanism of Inactivation of Human Placental *S*-Adenosylhomocysteine Hydrolase by (*E*)-4',5'-Didehydro-5'-Deoxy-5'-Methoxyadenosine (EDDMA) and Adenosine 5'-Carboxaldehyde Oxime (CAO)." Congress of Biochemistry and Molecular Biology, 1996. (poster)
30. S. Wnuk, S. Kinastowski, E. Lewandowska: "Jednoetapowa Synteza Podstawionych Pochodnych Kwasu 3-Amino-2-Pikolinowego". Mat. Dorocznego Zjazdu PTCh; Poznan, 1996, str. 119. (poster)
31. C.-S. Yuan, S. F. Wnuk, M. J. Robins, R. T. Borchardt: "A Novel Mechanism-based Inhibitor (6'-bromo-5',6'-didehydro-6'-deoxy-6'-fluorohomoadenosine) that Covalently Modifies Human Placental *S*-Adenosylhomocysteine hydrolase." 17th International Congress of Biochemistry and Molecular Biology, Annual Meeting of the American Society for Biochemistry and Molecular Biology, New York, 1997 (poster).
32. S. F. Wnuk, C.-S. Yuan, R. T. Borchardt, M. J. Robins "Design and Biological Evaluation of New Mechanism-based Inhibitors of *S*-adenosyl-L-Homocysteine hydrolase" Florida ACS Meeting and Exposition, Orlando, FL, 1998 (lecture).
33. S. F. Wnuk, C.-S. Yuan, R. T. Borchardt, M. J. Robins "Design and Biological Evaluation of New Mechanism-based Inhibitors of *S*-adenosyl-L-homocysteine Hydrolase" 13th International Round Table Symposium: Nucleosides, Nucleotides and their Biological Applications, Montpellier, France, 1998 (poster)

34. C. A. Valdez, J. Khan, P. Moutinho, J. W. Oliva, N. M. Sanchez, E. C. Hernandez, and S. F. Wnuk "Synthesis of Chain-Extended Adenosine Analogues from Diacetone-D-Glucose" 217th ACS National Meeting, Anaheim, CA, 1999; Undergraduate Research Poster Session Chemistry (poster).
35. S. F. Wnuk, J. Khan, C. A. Valdez, P. Moutinho "Synthesis of Homologated Dihalovinyl And Acetylene Analogues of Adenosine as Potential Inhibitors of *S*-Adenosyl-L-Homocysteine Hydrolase" 218th ACS National Meeting, New Orleans, LU, 1999; Division of Carbohydrate Chemistry (lecture).
36. J. Khan, J. Rios, Stanislaw F. Wnuk "Synthesis of α -Fluoro Carboxylate and Phosphonate Esters via Stannyl Radical-Mediated Cleavage of π -Deficient Heterocyclic Sulfones" 218th ACS National Meeting, New Orleans, LU, 1999; Undergraduate Research Poster Session Chemistry (poster).
37. S. F. Wnuk, D. N. Aguilar, J. Rios, Y. Suros, N. X. Valdez, C. A. Valdez, J. Khan "Organotin Hydride-Catalyzed Cleavage of π -Deficient Heterocyclic Sulfones" 219th ACS National Meeting, San Francisco, CA, 2000; Undergraduate Research Poster Session Chemistry (poster).
38. X. Yang, D. Yin, S. F. Wnuk, M. J. Robins, R. T. Borchardt: "Mechanism-based Inactivation of Human Placental *S*-Adenosylhomocysteine hydrolase by 5',5',6',6'-tetrahydro-6'-deoxy-6'-halohomoadenosine Analogues". World Congress of Microbiology, Boston, MA., 2000 (poster).
39. S. F. Wnuk, N. X. Valdez, C. A. Valdez, L. A. Bergolla "Rhodium-catalyzed Regio- and Stereoselective Chloroalkoxycarbonylation of Sugar Acetylenes with Ethyl Chloroformate" 220th ACS National Meeting, Washington, D.C., 2000; Division of Carbohydrate Chemistry (lecture).
40. S. F. Wnuk, J. Rios, L. A. Bergolla, S. M. Chowdhury and Y.-L. Hsu "Stannyl Radical-Mediated Cleavage of π -Deficient Heterocyclic Sulfones" 220th ACS National Meeting, Washington, D.C., 2000; Division of Organic Chemistry (lecture).
41. S. M. Chowdhury, P. I. Garcia Jr., S. F. Wnuk "Approach for Clarification of the mechanism of Inactivation of Ribonucleotide Reductases with 3' [¹⁷O]-labeled 2'-azido-2'-deoxynucleotides" 221th ACS National Meeting, San Diego, CA., 2001; Division of Carbohydrate Chemistry (lecture).
42. D. R. Companioni, Y. Suros, P. I. Garcia Jr., S. F. Wnuk "Synthesis of 9-(2-thio- β -D-arabinofuranosyl)adenine 5'-diphosphate as a valuable probe to study the mechanism of inhibition of Ribonucleotide Reductases" 221th ACS National Meeting, San Diego, CA., 2001; Division of Organic Chemistry (poster).
43. L. A. Bergolla, P. I. Garcia Jr., S. F. Wnuk "Application of π -Deficient Heterocyclic Sulfones towards synthesis of α -Fluoro Phosphonate Esters" 221th ACS National Meeting, San Diego, CA., 2001; Undergraduate Research Poster Session Chemistry (poster).
44. S. F. Wnuk, D. R. Companioni, S. M. Chowdhury and P. I. Garcia, Jr., "Novel Nucleoside Analogues to Study the Inactivation of Ribonucleotide Reductases", The 12th European Symposium on Organic Chemistry; Groningen, The Netherlands, 2001 (lecture).
45. S. F. Wnuk, D. R. Companioni, and Pedro I. Garcia, Jr., "Synthesis of 9-(2-Thio- β -D-arabinofuranosyl)adenine 5'-Diphosphate as a Valuable Probe to Study the Mechanism of Inhibition of Ribonucleoside Reductases", Gordon Research Conference on Purines, Pyrimidines & Related Substances; Newport, RI, 2001 (poster).
46. S. F. Wnuk, P. R. Sacasa, E. Lewandowska, "Stereocontrolled Synthesis of Sugar-Modified Conjugated Diene Analogues of Adenosine and Uridine via Stille coupling", 223th ACS National Meeting, Orlando, FL., 2002; Division of Carbohydrate Chemistry (lecture).
47. P. I. Garcia Jr., L. A. Bergolla, S. F. Wnuk, "Intramolecular cyclization of the α -phosphonyl radicals. Synthesis of α -Fluoro Phosphonates", 223th ACS National Meeting, Orlando, FL., 2002; Undergraduate Research Poster Session Chemistry (poster).
48. D. Chatfield, A. Augusten, E. Lewandowska, S. F. Wnuk, "*Ab initio* study of abnormal Michael addition", 8th Electronic Computational Chemistry Conference, March 2002; <http://eccc8.cooper.edu>.
49. D. Chatfield, A. Augusten, E. Lewandowska, S. F. Wnuk, "*Ab initio* study of abnormal Michael addition", 224th ACS National Meeting, Boston, MA., 2002; Division of Organic Chemistry (lecture).

50. S. F. Wnuk, P. R. Sacasa, L. N. Crain, E. Lewandowska, R. T. Borchardt, "Stereocontrolled synthesis of diene- and enyne-modified nucleosides and their interaction with *S*-adenosyl-L-homocysteine hydrolase" 14th International Round Table Symposium: Nucleosides, Nucleotides and their Biological Applications, Leuven, Belgium, 2002 (poster).
51. J. Antonic, M. Bennati, G. Bar, J. Robblee, S. F. Wnuk, S. Chowdhury, P. Garcia. Mechanism –Based Inhibition of Ribonucleotide Reductase from *Escherichia coli*. Enzyme Mechanism Conference, Galveston, TX, January, 2003. (poster)
51. S. F. Wnuk, P. R. Sacasa, J. Lalama, V. J. Lawrence, E. Lewandowska, "Synthesis of *S*-adenosyl-L-homocysteine analogues with the sulfur atom replaced by "vinyl unit" via cross coupling reactions" 225th ACS National Meeting, New Orleans, LA., 2003; Division of Carbohydrate Chemistry (lecture).
52. P. I. Garcia Jr., Z. Wang, L. N. Crain, S. F. Wnuk "Desulfonylation of π -Deficient Heterocyclic Sulfones" 225th ACS National Meeting, New Orleans, LA., 2003; Division of Organic Chemistry (poster).
53. S. F. Wnuk "Sulfones as an Auxiliary Group in the Synthesis of Nucleoside Analogues" 1st Conference on Developments in Nucleic Acids: Chemistry, Pharmacology and Medicine. Atlanta, April, 2003 (lecture).
54. J. Lalama, D. Andrei, C. A. Garmendia, S. F. Wnuk. "Synthesis of *S*-ribosyl-L-homocysteine analogues via *trans*-selective Negishi coupling of sugar-derived dihaloalkenes" 227th ACS National Meeting, Anaheim, CA., March 2004; Division of Carbohydrate Chemistry (lecture).
55. P. I. Garcia Jr., Z. Wang, S. F. Wnuk "Synthetic applications of vinyl tris(trimethylsilyl)- silanes" 227th ACS National Meeting, Anaheim, CA., March 2004; Division of Organic Chemistry (poster).
56. S. F. Wnuk, P. I. Garcia Jr., Z. Wang "Radical-mediated silyl- and germyldesulfonylation of vinyl sulfones: Synthesis of (α -fluoro)vinyl silanes and germanes" 227th ACS National Meeting, Anaheim, CA., March 2004; Division of Organic Chemistry (lecture).
57. S. F. Wnuk "Radical-mediated silyl- and germyldesulfonylation of vinyl sulfones: Application of tris(trimethylsilyl)silanes & germanes in Pd-catalyzed coupling" Organic Faculty of Florida Meeting, Orlando, FL, March 2004 (lecture).
58. S. F. Wnuk, E. Lewandowska, P. R. Sacasa, J. Lalama. D. Andrei, C. A. Garmendia. "Synthesis of *S*-adenosyl- and *S*-ribosylhomocysteine analogues with sulfur atom replaced by 'vinyl unit'" 22nd International Carbohydrate Symposium, Glasgow, July 2004 (lecture).
59. Z. Wang, D. Derane, S. F. Wnuk Application of tris(trimethylsilyl)germanes in organic synthesis. 229th ACS National Meeting, San Diego, CA., March 2005; Division of Chemical Education (undergraduate research poster).
60. D. Andrei, A. Gonzalez, S. F. Wnuk, Cross-coupling reactions of 1,1-dihalo-1-alkenes with alkylzinc bromides. 229th ACS National Meeting, San Diego, CA., March 2005; Division of Organic Chemistry (poster).
61. S. F. Wnuk, J. Lalama. D. Andrei, C. A. Garmendia, J. Robert. *S*-Adenosylhomocysteine and *S*-ribosylhomocysteine analogues with sulfur atom replaced by the "vinyl unit". 229th ACS National Meeting, San Diego, CA., March 2005; Division of Carbohydrate Chemistry (lecture).
62. Z. Wang, P. I. Garcia Jr., A. Gonzalez, S. F. Wnuk. Organogermanes in Pd-catalyzed cross-coupling reactions. 229th ACS National Meeting, San Diego, CA., March 2005; Division of Organic Chemistry (lecture).
63. S.F. Wnuk, Z. Wang, P. Garcia, A. Gonzalez. Organogermanes in Pd-catalyzed Cross-coupling Reactions, 13th IUPAC International Symposium on Organometallic Chemistry directed towards organic synthesis. Geneva, Switzerland, 17-21 July, 2005 (lecture).
64. Z. Wang, S. F. Wnuk. Tris(trimethylsilyl)silanes & germanes in Pd-catalyzed cross-couplings. 230th ACS National Meeting, Washington, DC., August 2005; Division of Organic Chemistry (poster).
65. Z. Wang, S. F. Wnuk. The organogermanes-mediated cross-coupling reactions. PacifiChem 2005 ACS Meeting, Honolulu, Hawaii, December 2005; Division of Organic Chemistry (lecture).
66. S. F. Wnuk, M. Rapp, A. Mancinelli, X. Cai, W. Dolbier, Jr., M. J. Robins. Spirodifluorocarbohydrate analogues. 231th ACS National Meeting, Atlanta, GA, March 2006; Division of Carbohydrate Chemistry

(lecture).

67. M. Rapp, L. Montes, S. F. Wnuk. Synthesis and antitrypanosomal activity of 6'-iodohomovinyladenosine and related 6-*N*-cyclopropyladenosine analogues. 231th ACS National Meeting, Atlanta, GA, March 2006; Division of Medicinal Chemistry (poster).
68. J. Robert, B. Meyers, J. Lalama, S. F. Wnuk, 3-Deoxy Analogues of *S*-ribosylhomocysteine: Targeting LuxS enzyme. 231th ACS National Meeting, Atlanta, GA, March 2006; Division of Chemical Education (undergraduate research poster).
69. D. Andrei, S. F. Wnuk, Negishi coupling of dihaloalkenes with alkylzinc bromides. 231th ACS National Meeting, Atlanta, GA., March 2006; Division of Organic Chemistry (lecture).
70. D. Andrei, S. F. Wnuk "Synthesis of *S*-Adenosylhomocysteine analogues via metathesis of 5'-methylene adenosine analogues and homoallylglycine". 232nd ACS National Meeting, San Francisco, CA., September 2006; Division of Carbohydrate Chemistry (lecture).
71. J. Lalama, J. Robert, J. Zhu, D. Pei, S. F. Wnuk, "Novel *S*-ribosylhomocysteine analogues as potential inhibitors of LuxS enzyme" 17th International Round Table Symposium: Nucleosides, Nucleotides and their Biological Applications. Bern, Switzerland; September 2006 (lecture).
72. S. F. Wnuk, M. Rapp, Z. Wang, X. Cai, W. Xu, W. R. Dolbier, "Fluoro nucleosides as inhibitors of ribonucleotide reductases" 58th ACS Southeastern Regional meeting, Augusta, GA, November 2006; Division of Fluorine Chemistry (lecture).
73. J. Robert, S. F. Wnuk, Meyers, B. "Developing antibiotic drugs: Synthesis of *S*-ribosylhomocysteine analogues targeting LuxS enzyme" Annual Biomedical Research Conference for Minority Students, Anaheim, CA; November 2006 (poster).
74. P. R. Sacasa, D. Andrei, T. P. Dang, S. F. Wnuk "*S*-Adenosylhomocysteine analogues with carbon-5' and sulfur atoms replaced by halovinyl unit". 233th ACS National Meeting, Chicago, IL, March 2007; Division of Carbohydrate Chemistry (lecture).
75. J.-P. Pitteloud, S. F. Wnuk "Pd-catalyzed reactions of triallyl(phenyl)germanes". 233th ACS National Meeting, Chicago, IL, March 2007; Division of Organic Chemistry (poster).
76. J. Robert, B. Meyers, A. J. Sobczak, F. Wnuk, "Synthesis of *S*-ribosylhomocysteine analogues modified at carbon-3". 233th ACS National Meeting, Chicago, IL, March 2007; Division of Carbohydrate Chemistry (Invited lecture).
77. J.-P. Pitteloud, Z. Wang,, S. F. Wnuk, "Studies Toward Cross-coupling Reactions with Organogermanes", 14th IUPAC International Symposium on Organometallic Chemistry directed towards organic synthesis. Kyoto, Japan, 1-5 August, 2007 (poster).
78. V. Malladi, A. J. Sobczak, F. Wnuk, "Aza analogues of the *S*-ribosylhomocysteine" 235th ACS National Meeting, New Orleans, LA, April 2008; Division of Carbohydrate Chemistry (lecture).
79. J. Restrepo, P. R. Sacasa, J.-P. Pitteloud, S. F. Wnuk "Application of gemyldesulfonylation reactions in nucleoside chemistry". 235th ACS National Meeting, New Orleans, LA, April 2008; Division of Chemical Education (poster).
80. T. P. Dang, A. J. Sobczak, M. Rapp, A. Mebel, S. F. Wnuk, "Biomimetic simulation of reactions postulated to occur during inhibition of ribonucleotide reductases by 2'-azido-2'-deoxynucleotides" 237th ACS National Meeting, Salt Lake City, UT, March 2009; Division of Medicinal Chemistry (lecture)
81. S. F. Wnuk, A. J. Sobczak, V. Malladi, P. R. Sacasa, J.-P. Pitteloud, "*S*-Adenosylhomocysteinase vs *S*-ribosylhomocysteinase (LuxS): Similarities and Differences. 237th ACS National Meeting, Salt Lake City, UT, March 2009; Division of Carbohydrate Chemistry (Invited lecture).
82. J. Zayas, P. R. Sacasa, S. F. Wnuk, "Radical desulfonylation reactions in aqueous medium using tris(trimethylsilyl)silane and thiols, 237th ACS National Meeting, Salt Lake City, UT, March 2009; Division of Chemical Education (undergraduate research poster).
83. S. F. Wnuk, "Probing nucleotide-based radicals formed during inactivation of ribonucleotide reductases" The annual meeting of the management and the scientific meeting for COST Chemistry CM0603 for free radicals in chemical biology. Gniezno, Poland, September 2009 (invited lecture).

84. N. Maricic, S.K Murugaripan, K. Vandenberg, V. A. Malladi, Adam Sobczak, J. Makemson, S.F. Wnuk, Lisa Schneper, K. Mathee. Inhibition of quorum sensing in *Pseudomonas aeruginosa* and *Vibrio harveyi* using synthesized 4-Aza S-ribosylhomocysteine analogues. National Meeting of American Association of Microbiology, Cold Spring Harbor, July, 2009.
85. J.-P. Pitteloud, Z-T. Zhang, L. Cabrera, Y. Liang, M. Turibio, S. F. Wnuk, "Fluoride-promoted cross-coupling of chloro(mono-, di-, and triphenyl)chlorogermanes with aryl halides in "Moist" toluene. 240th ACS National Meeting, Boston, MA, August 2010; Division of Organic Chemistry (oral presentation).
86. S. F. Wnuk, T. P. Dang, A. J. Sobczak, J. Zayas, A. Mebel, "Probing the nucleosides radicals formed during inactivation of ribonucleoside reductase". 19th International Round Table Symposium: Nucleosides, Nucleotides and their Biological Applications. Lyon, France; September 2010 (invited lecture).
87. J. Makemson, V. A. Malladi, S.F. Wnuk, "Acyl-homoserine lactone Analogs inhibit *Vibrio Harveyi* Luciferase. Annual American. Society for Microbiology Meeting, poster K-4377, Session 118, Board 1267, May 2011.
88. Xunting Zhang, Bo Liang, Dong Xe, F. Wnuk, "Practical and Efficient Synthesis of Isoflavones by Stille Cross-Coupling" 16th IUPAC International Symposium on Organometallic Chemistry Directed Towards Organic Synthesis, Shanghai, China, July, 2011 (poster).
89. D. A. Lumpuy, A. Adhikary, C. T. Rice, T. P. Dang, Adam Sobczak, Michael D. Sevilla, S. F. Wnuk, "Formation of the aminyl radical via one electron attachment to 2'-azido-2'-deoxyuridine and methyl 2-azido-2-deoxy- α -D-lyxofuranoside and subsequent reaction to sugar radical." 243rd ACS National Meeting, San Diego, CA, March 2012; Division of Carbohydrate Chemistry (oral presentation).
90. J. Pulido, A. J. Sobczak, H. Ortiz, A. van Dervort, P. Thread, D. Roy, S. F. Wnuk, "Novel 4-N-Modified Gemcitabine Analogues." 243rd ACS National Meeting, San Diego, CA, March 2012; Division of Medicinal Chemistry (poster).
91. A. Shokar, A. Au, S. An, K. M. Land, J. Zayas, S. F. Wnuk, "Inhibition of adenosylhomocysteine hydrolase of *Trichomonas vaginalis* with 9-(2-deoxy-2-fluoro- β ,D-arabinofuranosyl)adenine 243rd ACS National Meeting, San Diego, CA, March 2012; Division of Medicinal Chemistry (poster).
92. Y. Liang, J.-P. Pitteloud, S. F. Wnuk, "Chemoselective Transfer of Allyl or Phenyl Group from Allyl(phenyl)germanes in Pd-catalyzed Reactions with Aryl Halides." 243rd ACS National Meeting, San Diego, CA, March 2012; Division of Organic Chemistry (poster).
93. R. Rayala, S. F. Wnuk, "Bromination at C-5 of pyrimidine and C-8 of purine nucleosides with 1,3-dibromo-5, 5-dimethylhydantoin." 243rd ACS National Meeting, San Diego, CA, March 2012; Division of Organic Chemistry (poster).
94. A. Au, A. Shokar, S. An, J. Zayas, S. F. Wnuk, K. M. Land "Characterization of an adenosylhomocysteine hydrolase enzyme in the protozoal *Trichomonas vaginalis*. Bay Area Microbial Pathogenesis Symposium at UC San Francisco, March 2012, San Francisco (poster).
95. Y. Liang, J.-P. Pitteloud, S. F. Wnuk, "Organogermanes in Pd-catalyzed cross-coupling reactions." 19th IUPAC ICOS conference in Melbourne, Australia, 1-6 July, 2012 (oral presentation).
96. Y. Liang, J.-P. Pitteloud, S. F. Wnuk, "Conversion of 5-Ethynyluracil Nucleosides to 5-(2-Germylvinyl) and 5-(2-Germylacetyl)uracil Nucleosides via Hydrogermylation." 245th ACS National Meeting, New Orleans, LA, April 2013; Division of Carbohydrate Chemistry (oral presentation).
97. R. Rayala, G. Giuglio, J. Broggi, M. Médebielle, S. F. Wnuk, "Reductive desulfonylation of 2'-(arylsulfonyl)-2'-deoxy-2'-fluorouridine derivatives with tetrakis(dimethylamino)ethylene." 245th ACS National Meeting, New Orleans, LA, April 2013; Division of Organic Chemistry (poster presentation).
98. J. Zayas, K.-H. Chang, N. Patel, S. F. Wnuk, K. M. Land, "*In vitro* activity of nucleoside analogues on the veterinary protozoan parasite *Tritrichomonas foetus*." 245th ACS National Meeting, New Orleans, LA, April 2013; Division of Medicinal Chemistry (poster presentation).
99. Y. Liang, J.-P. Pitteloud, E. Hernandez, S. F. Wnuk, "Unexpected hydrogermylation of 5-ethynyluracil nucleosides: mechanism consideration" FAME 2013, Orlando, FL. May 2013 (oral presentation).
100. Y. Liang, J.-P. Pitteloud, S. F. Wnuk, "Synthetic application of germanium-containing nucleosides", 44th

World Chemistry Congress IUPAC 2013, Istanbul, Turkey, August, 2013 (oral presentation).

101. A. Adhikary, A. Kumar, A. N. Heizer, B. J. Palmer, V. Pottiboyina, Yong Liang, S. F. Wnuk, M. D. Sevilla, "Hydroxyl ion addition to one-electron oxidized thymine: unimolecular interconversion of the C5-OH adduct radical to C6 OH-adduct radical" 59th Annual Meeting of the Radiation Research Society; New Orleans, LA, September, 2013 (oral presentation).
102. M. Mudgal, S. F. Wnuk, M. J. Robins, "Modeling inhibition of ribonucleotide reductase by 2-substituted hexofuranoses." 247th ACS National Meeting, Dallas, TX, March 2014; Division of Carbohydrate Chemistry (oral presentation).
103. Jesse Pulido, A. J. Sobczak, J. Balzarini, S. F. Wnuk, "Synthesis and Cytostatic Evaluation of 4-N-Alkanoyl and 4-N-Alkyl Gemcitabine Analogues." 247th ACS National Meeting, Dallas, TX, March 2014; Division of Medicinal Chemistry (poster).
104. J. Zayas, M. Annoual, S. F. Wnuk, "Strain promoted click chemistry (SPAAC) of 8-azido purine and 5-azido pyrimidine nucleosides with cyclooctynes." 247th ACS National Meeting, Dallas, TX, March 2014; Division of Medicinal Chemistry (poster).
105. R. Rayala, P. Theard, H. Ortiz, S. F. Wnuk, M. J. Robins, "Synthesis of 6-N-substituted 7-deazapurine nucleoside antibiotics: Potential nucleoside transport inhibitors." 247th ACS National Meeting, Dallas, TX, March 2014; Division of Medicinal Chemistry (poster).
106. Y. Liang, J. Gloudeman, S. F. Wnuk, "TBAF-promoted Pd-catalyzed direct arylation of 5-iodouracil nucleosides." 247th ACS National Meeting, Dallas, TX, March 2014; Division of Organic Chemistry (oral presentation).
107. M. Médebielle, R. Rayala, G. Giuglio, J. Broggi, T. Terme, P. Vanelle, S. F. Wnuk, "Studies towards the oxidative and reductive functionalization of 2'-S-(aryl)-2'-fluoro-2'-thiouridine derivatives", 121st International Round Table Symposium: Nucleosides, Nucleotides and their Biological Applications. Poznan, Poland; August 2014 (poster).
108. J. Pulido, A. Sobczak, J. Balzarini, N. Satyamurthy, C. Radu, S. F. Wnuk, "Synthesis and cytostatic evaluation of 4-n-alkanoyl and 4-n-alkyl gemcitabine analogues suitable for positron emission tomography." 121st International Round Table Symposium: Nucleosides, Nucleotides and their Biological Applications. Poznan, Poland; August 2014 (invited lecture).
109. Madiha Ahmed, Mukesh Mudgal, Stanislaw F. Wnuk "Inhibition of S-ribosylhomocysteinase (LuxS) by SRH analogue," National Conference on Undergraduate Research, Eastern Washington University, Spokane April, 2015 (poster)
110. A. Adhikary, S. F. Wnuk, M. D. Sevilla, " A One-electron oxidation of gemcitabine and azidonucleosides: Mechanism of formation of C3' and C2' sugar radicals." Gordon Research Conference on "Nucleosides, Nucleotides and Oligonucleotides" Salve Regina University, Newport, July, 2015 (Lecture).
111. M. Médebielle, R. Rayala, G. Guiglio, J. Broggi, T. Terme, P. Vanelle, S. F. Wnuk, "Oxidative and reductive functionalization of 2'-S-(aryl)-2'-fluoro-2'-thiouridine derivatives" 21st Symposium on Fluorine Chemistry and 6th International Symposium on Fluorous Technologies, Como, Italy, August 2015 (poster).
112. A. Adhikary, S. F. Wnuk, M. D. Sevilla, "Chemistry of DNA strand break", 61st Annual Meeting of the Radiation Research Society, Weston, FL, September, 2015,
113. C. Gonzalez, S. Kavooosi, A. Sanchez, S. F. Wnuk, "Reduction of Sugar Lactones to Lactols with Lithium Triethylborohydride", 251st ACS National Meeting, San Diego, CA, March 2016; Division of Carbohydrate Chemistry (poster).
114. Y. Liang, Sk Md S. H. Suzol, Z. Wen, A. G. Artiles, I. De Jesus da Silva, M. Q. Hoang Dinh, A. Akinniyi, S. F. Wnuk, "5-[1-Halo-2-(arylsulfonyl)vinyl]uracil nucleosides: New probes for cross-linking with amino acids" ACS National Meeting, San Diego, CA, March 2016; Division of Organic Chemistry (lecture).
115. M. Mudgal, A. Adhikary, C. G. Hanson, A. O. Petrovici, M. D. Sevilla, and S. F. Wnuk, "Electron-induced site specific formation and reactions of the aminyl radical in 2'-azido-2'-deoxycytidine and its 4'-azidocytidine analogue", 251st ACS National Meeting, San Diego, CA, March 2016; Division of Organic Chemistry (poster).

116. R. Rayala, S. Kavooosi, B. Walsh, M. Barrios, S. F. Wnuk, "Base-modified 7-deazapurine nucleosides" 251st ACS National Meeting, San Diego, CA, March 2016; Division of Organic Chemistry (poster).
117. S. F. Wnuk, M. Mudgal, Z. W. Wen, A. Adhikary, M. D. Sevilla, "Electron-induced site specific formation and reactions of the aminyl radical in azido nucleosides", 22nd International Round Table Symposium: Nucleosides, Nucleotides and their Biological Applications. Paris, France; July 2016 (poster).
118. A. Sanchez, M-L. Veisaga, L. A. Lopez, S. Wnuk, M. Barbieri, "Synthesis of dehydroleucodine and dehydroparishin-B amino derivatives as potential anti-proliferative against breast cancer and B16 melanoma cells." 253rd ACS National Meeting, San Francisco, CA, April 2017; Division of Medicinal Chemistry (poster).
119. C. Gonzalez, A. Sanchez, S. F. Wnuk, "Clickable 4-N-alkanoyl and 4-N-alkylgemcitabine analogues with silicon-fluoride acceptors." 253rd ACS National Meeting, San Francisco, CA, April 2017; Division of Medicinal Chemistry (poster).
120. Z.-W. Wen, J. Peng, P. Tuttle, Y. Liang, S. Rishi, A. Adhikary, M. D. Sevilla, C. Garcia, Y. Ren, Y. Liu, S. F. Wnuk, "5-Azido-modified pyrimidine nucleosides: Chemistry and biology." 253rd ACS National Meeting, San Francisco, CA, April 2017; Division of Organic Chemistry (oral).
121. M. de Cabrera, C. Gonzalez, N. Sulimoff, S. F. Wnuk, "Synthesis of 4-N-Alkyl Gemcitabine Analog Bearing β -Keto Tosylate Moiety Suitable for ^{18}F -Labeling." 253rd ACS National Meeting, San Francisco, CA, April 2017; Division of Organic Chemistry (poster).
122. S. H. Suzol, A. H. Howlader, and S. F. Wnuk, "Pyrimidine Nucleosides with Reactive β -keto sulfonyl Group at C5 Position." 253rd ACS National Meeting, San Francisco, CA, April 2017; Division of Organic Chemistry (oral).
123. C. Garcia, Y. Ren, Z.-W Wen, S. F. Wnuk, Y. Liu, "5-Azidomethyl-2'-deoxyuridine triphosphate can be efficiently incorporated by a repair DNA polymerase." 253rd ACS National Meeting, San Francisco, CA, April 2017; Division of Biological Chemistry (poster).
124. J. Collins, K. Lisova, C. Gonzalez, S. F. Wnuk, R. M. van Dam, "Microscale and conventional radiosynthesis of ^{18}F -labeled gemcitabine analog via silicon-fluoride-acceptor chemistry." 22nd International Symposium on Radiopharmaceutical Sciences, Dresden, Germany, May 2017 (oral).
125. M. Mudgal, S. Rishi, D. A. Lumpuy, K. A. Curran, K. L. Verley, A. J. Sobczak, T. P. Dang, N. Sulimoff, A. Kumar, M. D. Sevilla, S. F. Wnuk, A. Adhikary, "Prehydrated One-Electron Attachment to Azido-Modified Pentafuranoses: Aminyl Radical Formation, Rapid H-Atom Transfer and Subsequent Ring Opening." Gordon Conference, Nucleosides, Nucleotides and Oligonucleotides, Salve Regina University, June 2017 (poster).
126. S. F. Wnuk, M. M. Mudgal, I. Nowak, M. J. Robins, "Model inactivation reactions for MOAA and RNR: Loss of bromo, chloro, or tosylate groups from C2 of 1,5-dideoxy-homoribofuranoses upon generation of a radical at C3." 19th European Carbohydrate Symposium, Barcelona, Spain, July 2017, (poster).
127. A. Adhikary, S. F. Wnuk, M. D. Sevilla, "Electron-induced site specific formation and reactions of aminyl radicals in azido-nucleic acid models" 30th Miller Conference on Radiation Chemistry, Castellammare del Golfo, Sicily, Italy, October, 2017, (oral).
128. A. H. Howlader, Sazzad H Suzol, Kevin Blanco, Stanislaw F. Wnuk, "Purine nucleosides with reactive β -halovinyl sulfone and β -keto sulfone at C8 position." 255th ACS National Meeting, New Orleans, LA, March 2018; Division of Organic Chemistry (poster).
129. Maria de Cabrera, Stanislaw F. Wnuk, "Synthesis of Diphosphate ProTides for Enhancement of Cellular Metabolism." 255th ACS National Meeting, New Orleans, LA, March 2018; Division of Chemical Biology (poster).
130. Zhiwei Wen, Paloma Tuttle, Anna Vasilyeva, Antonija Tangar, Jaroslava Miksovska, Stanislaw F. Wnuk, "5-Pyrimidine and 8-Purine Nucleosides Modified with Unsubstituted 1,2,3-Triazol-4-yl: Synthesis and Fluorescent Properties 255th ACS National Meeting, New Orleans, LA, March 2018; Division of Organic Chemistry (oral).
131. Paloma Tuttle, Zhiwei Wen, Anna Vasilyeva, and Stanislaw F. Wnuk, "Catalyst-dependent hydroazidation of 5-ethynyl pyrimidine nucleosides: Formation of vinyl azides versus triazoles" 255th ACS National Meeting,

- New Orleans, LA, March 2018; Division of Organic Chemistry (poster).
132. Mukesh Mudgal, Amitava Adhikary, Michael D. Sevilla, Stanislaw F. Wnuk, "Synthesis of α - and β -anomers of methyl 2-azido-2-deoxyribofuranoside: Their chemistry and biological application" 29th International Carbohydrate Symposium, Lisbon, Portugal, July 2018 (poster)
 133. Zhiwei Wen, Amitava Adhikary, Michael D. Sevilla, and Stanislaw F. Wnuk "Radiation damage to cells augmented by electron-induced aminyl radicals in C5 azido-modified pyrimidine nucleosides incorporated into DNA-fragments." 23rd International Round Table Nucleosides, Nucleotides and Nucleic Acids. San Diego, CA, USA; August 2018 (lecture).
 134. Zhiwei Wen, Paloma Tuttle, Anna Vasilyeva, Laura Gonzalez, Antonija Tangar, Jaroslava Miksovska, and Stanislaw F. Wnuk, "Synthesis and fluorescent properties of 5-pyrimidine and 8-purine nucleosides with 1,2,3-triazol-4-yl substitution." 23rd International Round Table Nucleosides, Nucleotides and Nucleic Acids. San Diego, CA, USA; August 2018 (poster)
 135. Amitava Adhikary Zhiwei Wen, Stanislaw F. Wnuk, Michael D. Sevilla, "5-Azido-modified pyrimidine nucleosides: electron mediated formation of pi-type aminyl radical and its conversion to sigma-type iminyl radical", ICIIP Conference, July 2018, Annapolis, Maryland, USA (Invited).
 136. Jayanta Das, Mayur Doke, Stanislaw Wnuk, Marco Ruiz, Jonathan Celli, "Inhibition of Wnt/ β -catenin signaling pathway by a small molecule against pancreatic cancer stem cells", 2018 NCRI Cancer Conference, Glasgow, November 2018. Abstract ID: 1573.
 137. A. Hasan Howlader, Sazzad H. Suzol, Kevin Blanco, Matthew Pasteris, Stanislaw F. Wnuk "Purine nucleosides with reactive β -halovinyl, β -aminovinyl and β -keto sulfones at C8 and C2 positions." 257th ACS National Meeting, Orlando, FL, April 2019; Division of Organic Chemistry (Oral).
 138. Maria de Cabrera, Jesse Pulido, Alejandro Amor-Coarasa, Anthony J. McGoron, and Stanislaw F. Wnuk, "4-N-Alkyl gemcitabine analogues with NOTA chelators for 68-gallium labelling." 257th ACS National Meeting, Orlando, FL, April 2019; Division of Organic Chemistry (Oral).
 139. Zhiwei Wen, Maria De Cabrera, Mukesh Mudgal, Alexandru Barbolovici, Samuel Ward, Ratan Sadhukhan, Rupak Pathak, Yanfeng Liu, Weixi Zhao, Peter M. Glazer, Michael D. Sevilla, Stanislaw F. Wnuk, and Amitava Adhikary, "Azido-substituted Nucleosides as Radiation Damage Enhancement Agents." Nucleosides, Nucleotides and Oligonucleotides, Gordon Research Conference, Salve Regina University, Newport, RI, June 2019 (oral).
 140. M. Lucia S. Guther, S. Duncan, R. Wall, R. Milne, M. Zoltner, ZW. Wen, A. H. Howlader, De Lin, R. Nagar, A. Atrih, M. Tinti G. Mackay, L. Stojanoski, F. Simeons, E. Pinto, L. Ferguson, S. Wyllie, K. Read, S. Wnuk and Michael A.J. Ferguson, Compound 25, an Adenosine chlorohomovinyl analog clears *T.brucei* infection in mice via a pro-drug mechanism, University of Dundee, January 22, 2020.
 141. A. H. Howlader, K. Diaz, A. M. Mebel, R. I. Kaiser, S. F. Wnuk, "Novel Synthesis of 5-, 6-, and 7-Iodoindenes". 259th ACS National Meeting (virtual), May 2020, Organic Division, Oral Presentation uploaded on ACS webpage.
 142. S. M. Ward, A. J. Sobczak, M. Mudgal, D. A. Lumpuy, , T. P. Dang, N. Sulimoff, P. Dutta, K. Ward, M. Alahmadi, A. Kumar, M. D. Sevilla, S. F. Wnuk, and A. Adhikary, "Site of Azido Substitution in the Sugar Moiety Influences the Reactivity of Aminyl Radicals Formed by Dissociative Electron Attachment in Azidonucleosides." Radiation Research Society, Virtual Meeting, October 18-21, 2020.

RESEARCH SUPPORT

NIEHS/NIH R35

Wnuk (Co-PI), Kim (PI)

Toxicant-induced neurotoxicity mediated by glia-neuron and gene-environment interactions in Parkinson's disease.

06/01/19-04/30/27

\$6.7 mln; 1st year \$788,577

NIGMS/NIH MBRS-SC1

Wnuk (PI)

Nucleoside- and Carbohydrate-based Enzyme Inhibitors.

08/01/08-07/31/14

\$797,000

NIGMS/NIH MBRS-SCORE S06 GM08205

Wnuk (Subproject PI)

Nucleoside-Based Enzyme Inhibitors. Novel Stannyl-, Silyl- and Germlydesulfonylation Reactions.

04/01/04-03/31/08

\$500,293

Wnuk (PI)

U.S Department of Defense

Acquisition of 600 MHZ NMR

11/1/2003-10/31/2004

\$400,000

Wnuk (PI)

Diazyme Laboratories, San Diego, CA

"Chemical synthesis of Neplanocin A"

15/01/01-09/31/04

\$40,600

Wnuk (PI)

Walter Reed Army Institute for Research, Silver Spring, MD

Synthesis of 6-*N*-cyclopropylamino-3-deaza-analogs of Aristeromycin

10/01/02-09/31/04

\$30,700

Wnuk (PI)

American Heart Association

Inhibitors of *S*-Adenosyl-L-homocysteine Hydrolase: A Potential Therapeutic Approach to Prevent Coronary Artery Disease

07/01/00-06/30/03

\$107,492

Wnuk (Mentor and/or co-PI)

2000-present

NIH Research Initiative for Scientific Enhancement (RISE) program

NIH Minority Access to Research Careers–Undergraduate Student Training in Academic Research (MARC U*STAR) program.

NSF Research Experience for Undergraduate Students (REU) program

NSF Ronald McNair Post Baccalaureate Achievement Program at FIU

NRC Nuclear Regulatory Commission Scholarship Program

MENTORING

I have an extensive history of working with students in a research environment and take special pride in helping undergraduate and graduate students to develop into successful professionals. In my 20 year independent career at FIU, I have mentored approximately 70 undergraduate and 30 graduate students (including 20 doctoral students), majority of them from underrepresented minorities and provided them with research opportunities in my laboratory. Once they graduate, I continue to mentor them during their time at their first independent research and/or teaching positions.