**Timea Gerczei Fernandez**

Assistant Professor of Chemistry

Winthrop University

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**EDUCATION**

2000 Ph.D. Eotvos Lorand University, Budapest, Hungary. Thesis adviser: Prof. Gabor Naray-Szabo. *Field of study: structural biochemistry and macromolecular modeling.*

1997 B.S./M.S., Chemistry, Eotvos Lorand University, Budapest, Hungary.

**PROFESSIONAL EXPERIENCE**

2019-present. Assistant Professor of Chemistry, Winthrop University

2017-2019 Visiting Assistant Professor of Chemistry, Sam Houston State University.

2007-2017 Assistant Professor of Chemistry, Ball State University.

2004-2007 Postdoctoral Researcher, Rosalind Franklin Univ., Department of Biochemistry and Molecular Biology. Research Advisor: Carl C Correll. *Kinetic characterization of two RNA chaperone proteins, Imp3 and Imp4, that play an essential in small ribosomal subunit biogenesis.* *Demonstrated, using fluorescence spectrometry, that these two proteins increase the rate and yield of pre-rRNA-U3snoRNA hybrid formation.*

2000-2004 Postdoctoral Researcher, University of Chicago, Department of Biochemistry and Molecular Biology. Research Advisor: Carl C Correll. *Optimized expression and purification for two yeast proteins, Imp3 and Imp4. Demonstrated that these proteins play an essential role in small ribosomal subunit biogenesis by chaperoning pre-rRNA-U3 snoRNA hybrid formations.*

**TEACHING EXPERIENCE**

I have demonstrated expertise teaching biochemistry as well as introductory chemistry courses and labs with different modalities and enrollments.

* **Biochemistry Courses** *(Enrollments:* 22-45, lecture*;* 16-36,lab)
* Biochemistry laboratory, 2 credit hours (CHEM 525, WU; CHEM 465, BSU). *Modalities:* F2F and hybrid.
* Introductory biochemistry, 3 credit hours (CHEM 323, WU.). *Modalities*: F2F and 100% online.
* Biochemistry I and II; 3 credit hours (CHEM 463/464, BSU). *Modalities:* F2F.
* **Organic-Biochemistry Courses** (*Enrollment:* 30-68)
* Organic and Biochemistry for dieticians and biologists, 4 credit hours (CHEM 360, BSU). *Modalities:* F2F.
* Organic and Biochemistry for applied science majors, 4 credit hours (CHEM 1407, SHSU). *Modalities:* F2F.
* **Introductory Chemistry Courses** (*Enrollment:* 26-74)
* General Chemistry I-II, 4 credit hours (CHEM 105, WU). *Modalities*: F2F and hybrid.
* General Chemistry lab, 2 credit hours (CHEM 108H, WU). *Modalities:* F2F.
* General Chemistry I and II, 4 credit hours (CHEM 1411 and 1412, SHSU). *Modalities:* F2F.
* Introductory Chemistry, 4 credit hours (CHEM 1406, SHSU). *Modalities*: F2F.
* Introductory Chemistry Laboratory, 1 credit hour (CHEM 111, 112 and 101, BSU). *Modalities*: F2F.

**INVITED LECTURES** (past six years)

* Annual Meeting of SC Branch of the American Society of Microbiology, **University of SC Upstate**, September 2023.
* External Advisory Review Board for the MADE in SC grant, **University of South Carolina**, April 2022.
* Research Exploration Seminar Series**, Winthrop University.** February 2022.
* Department of Chemistry Seminar Series**, Winthrop University**. March 2022.
* Eagle STEM Program Seminar Series, **Winthrop University.** June2020.
* Department of Chemistry Seminar Series**, Winthrop University**. January 2020.
* Department of Chemistry Seminar Series, **Yeshiva University** March 2019.
* Department of Chemistry Seminar Series, **Sam Houston State University**. November 2018.
* Department of Chemistry Seminar Series, **Coastal Carolina University**. March 2017.
* Department of Chemistry Seminar Series, **Wilkes University**. January 2017.

**PUBLICATIONS** (student authors marked with #; communicating author marked with \*)

* Kaiser, K.G. #,; Delattre, V. #,; Frost, V.J.; Buck, G.W.; Phu, J.V#,.; **Fernandez, T.G**\*.; Pavel, I.E\*. Nanosilver: An Old Antibacterial Agent with Great Promise in the Fight against Antibiotic Resistance. *Antibiotics*2023, 12, 1264. https://doi.org/10.3390/antibiotics12081264
* Quarles, J.D., Livingston, A.T., Wood, A.E., Fernandez, T.G. (2023). Preparation of Nucleic Acid Aptamer Functionalized Silver/Gold Nanoparticle Conjugates Using Thiol-Substituted Oligonucleotides. In: Afonin, K.A. (eds) RNA Nanostructures. Methods in Molecular Biology, vol 2709. Humana, New York, NY. https://doi.org/10.1007/978-1-0716-3417-2\_8
* **Gerczei T.** Site-directed mutagenesis study of an antibiotic-sensing noncoding RNA integrated into a one-semester project-based biochemistry lab course. *J. Chem. Educ.*, 2017, 94 (8), pp 1083–1089
* **Gerczei T,** (2016) The impact of an in-class biochemistry mini-conference on students’ perception of science. *J. Chem. Ed.* **93** (9), pp 1521–1527.
* **Gerczei T** and Pattison S.(2014)Biochemistry laboratory manual*; in print with DeGruyer Open Access and available online at* [*http://www.degruyter.com*](http://www.degruyter.com)*/view/product/449852*.
* **Gérczei T**,Shah BN, Manzo AJ, Walter NG, Correll CC**.** (2009)RNA chaperones stimulate formation and yield of the U3 snoRNA-Pre-rRNA duplexes needed for eukaryotic ribosome biogenesis, *J Mol Biol*., **390**(5): 991-1006.
* **Gérczei, T**. and Correll, C.C. (2004) Imp3p and Imp4p mediate an essential U3-pre-rRNA hybridization, presumably to recruit the small subunit processome to the pre-rRNA. Proc Natl Acad Sci U S A 101, 15301-15306.
* Correll, C.C. Yang, X. **Gerczei, T**. Beneken, J. Plantinga, M. J. (2004)RNA recognition and base flipping by the toxin sarcin. J Synchrotron Radiat 11, 93-96.
* Yang, X. **Gerczei, T**. Glover, L. T. Correll, C. C. (2001**)** Crystal structures of restrictocin-inhibitor complexes with implications for RNA recognition and base flipping. Nat Struct Biol 8, 968-973.
* **Gerczei T,** Fazekas A. and Keseru G (2000)Theoretical Study on the Nitric Oxide Binding to Nitrophorin 1, an NO-carrier. THEOCHEM 503, 51-58.
* **Gerczei,** T. Keseru, G. M. Naray-Szabo, G. (2000)Construction of a 3D model of oligopeptidase B, a potential processing enzyme in prokaryotes. J Mol Graph Model 18, 7-17, 57-18.
* **Gerczei,** T. et al. (1999) Conservative electrostatic potential patterns at enzyme active sites: The anion-cation-anion triad. Journal of Chemical Information and Computer Sciences 39, 310-315.
* **Gerczei**, T. Bocskei, Z. Keseru, G. M. Samu, E. Huszthy, P. (1999)Enantiomeric recognition of alpha-(1-naphthyl)ethylammonium perchlorate by enantiomerically pure dimethylphenazino-18-crown-6 ligand in solid and gas phases. Tetrahedron-Asymmetry 10, 1995-2005.
* **Gerczei**, T. Bocskei, Z. Szabo, E. Asboth, B. Naray-Szabo, G. (1999)Structure determination and refinement of the Al3+ complex of the D254,256E mutant of Arthrobacter D-xylose isomerase at 2.40 A resolution. Further evidence for inhibitor-induced metal ion movement. Int J Biol Macromol 25, 329-336.
* Naray-Szabo, G. and **Gerczei T**. (1996)The (-+-) charge distribution: A common pattern in the transition state of some enzymes. Croatica Chemica Acta 69, 955-965.
* Bocskei, Z. **Gerczei, T**. Bodor, A. Schwartz, R. and Naray-Szabo, G. (1996)Three testosterone derivatives. Acta Crystallographica Section C-Crystal Structure Communications 52, 2899-2903.

**GRANTS AND AWARDS**

Funded Proposals

* *NSF track 1 – ADAPT in SC* (submitted 2022 August) “Integrating Data Science and Biomedicine: Research, Education, and Workforce Development”. Winthrop PIs: Takita Sumter, Zach Abernathy and Robin Lammi. Timea G. Fernandez is senior personnel as curricular liaison. *Awarded: $500,000 (Winthrop’s share; $100,000 annually*).
* *NIH-NIGMS SC-INBRE DRP* (2022-2024*)*: “Nucleic acid aptamer-nanoparticle conjugates as Trojan-Horse drug delivery vehicles against drug-resistant bacteria”.PI: Timea G Fernandez. *Awarded: $70,438/year* (renewable for 1 additional year).
* *NIH-NIGMS SC-INBRE Instrumentation request*. (2022) Funding allowed the replacements of the Chemistry Department’s ~16-year-old Gel Documentation System with a top-of-the line equipment. The new instrument significantly enhances biomedical research capabilities at Winthrop and improve student training. PI: Timea G Fernandez, Co-PIs: Nicholas Grossoehme, Jason Hurlbert and Robin Lammi. *Awarded:* *$35,245*.
* *NSF MRI*: (2017) “Acquisition of a CytoViva system for highly interdisciplinary research and education in nanoscience and nanotechnology”. PI: Ioana Pavel Sizemore; Fernandez – senior personnel. Wright State University. *$289,328.00*.
* *NSF Conference Grant* (2016) “To support the Rustbelt RNA Meeting 2017 to be held at the Sheraton Indianapolis City Centre Hotel in Indianapolis, IN on October 13-14, 2017" co-PI with Sarath Chandra Janga (IUPUI). *$26,529*.
* *Indiana Academy of Sciences* (2011) “Bacterial toxin sensors are effective new targets in the fight against antibiotic resistance” *Awarded: $3,000*.
* *ASPIRE Grant* (2011) “Bacterial Toxin Sensors are excellent new targets in the fight against bacterial antibiotic resistance”. *Awarded: $9,000*.
* *Discovery grant* (2010) “The Future of Biochemistry Education at BSU” Awarded: *$17,500*.
* *Cardinal Fellows Grant* (2010) To write a major research proposal to the National Science Foundation Awarded: $2000.
* *Rinker Center of International Programs Faculty Travel Award* (2008) To present at the 13th Annual Meeting of the RNA Society. Awarded: *$500*.
* *Dean’s Office Faculty Travel Award* (2008) To present at the 13th Annual Meeting of the RNA Society. Awarded: *$400.*

Pending Proposals:

None

Proposals submitted but not funded

* *NIH-AREA grant.* (2015) “Mechanistic studies of the ykkCD riboswitch – a remarkably sensitive sensor that triggers expression of multidrug-resistant efflux pumps in Gram-positive bacteria in response to of tetracycline antibiotics”. *Requested: $300,000*.
* *National Science Foundation Career Grant*. (2015) “Structural and Mechanistic Study of a Yet Uncharacterized RNA Sensor: The ykkCD Riboswitch.” *Requested: $670,425*.
* *NineSigma* (2014) “Methods to Maximize Mammalian DNA Digestion" co-PI Marie Kelly-Worden (co-PI). *Requested: $100,000*. No awards were distributed.
* *National Science Foundation Career Grant* (2010) “Toxin sensors as instrumental players of bacterial cell-to-cell communication” *Requested: $500,000*.
* *American Heart Association Scientist Development Grant* (2009) “RNA regulatory elements as new targets in our fight against bacterial antibiotic resistance” *Requested: $245,000*.

**PROFESSIONAL STEWARDSHIP**

* Committee Membership
  + Assessment Committee (WU, 2023-present, member)
  + Institutional Biosafety Committee (WU, 2020-2022 member, 2022-present, Chair)
  + Department Liaison for the American Chemical Society’s Piedmont Student Awards (WU, 2021-present)
  + Department Scholarship Committee (WU, 2021-present)
  + Co-organizer of the Summer Lecture Series associated with Winthrop’s Summer Research Program (WU SURE, 2021 and 2022)
  + College Radiation Safety Committee (BSU, 2007-2017)
  + Awards Committee (BSU, 2008-2017)
  + Curricular Affairs Committee (BSU, 2012-2017)
  + Computer Committee (BSU, 2013-2015)
  + Graduate Committee (BSU, 2008-2011)
  + Instruments Committee (BSU, 2008-2009; 2011-2012)
  + Merit Committee (BSU, 2010-2012)
  + Personnel Committee (BSU, 2009-2011)
  + Promotion and Tenure Committee (BSU, 2012-2013)
  + Seminar Committee (BSU 2009-2011)
* Service to the Scientific Community
  + Chair, Rustbelt RNA Meeting, 2017.
  + Vice Chair, Rustbelt RNA Meeting, 2016.
  + Session Chair, Rustbelt RNA Meeting, 2013.
  + Poster Judge, Rustbelt RNA Meeting annually 2008-2015).
* Peer reviewer
  + Journal of Chemical Education.
  + Pierson Publishing.
  + W. W. Norton Publishing.
  + Aspire Grants in Life Sciences at Ball State University.
  + Journal of Dairy Science.
* Symposiums, workshops, and certificates
  + SC INBRE Academic Leadership and Career Development Workshop (2022), Columbia, SC.
  + The 3rd International Conference on Biomotors, Virus Assembly and RNA Nanotechnology (2022), virtual.
  + Showcase for Undergraduate Research (SOURCE) symposium (2021)
  + 12th Annual INBRE Symposium, (2021) virtual.
  + 11th Annual INBRE Symposium, Columbia, SC (2020).
  + Winthrop University Diversity, Inclusion and Equity Certificate (2022). Five workshops attended:
    - Racism and Ethnocentrism
    - Facilitating Challenging Conversations
    - Addressing Implicit Bias and Microaggressions
    - Gender Equity, Feminism, and Intersectionality
    - LGBTQIA Identities and Communities
  + Winthrop University Online Teaching Certificate (2021; WOTC 101 and 102).
  + Advisor Training (2019 and 2021)

**OUTREACH ACTIVITIES**

* Chemistry Demonstration Oakdale STEM Elementary, Rock Hill, SC 2023
* Recruiting science teachers to the SC-INBRE Research Experience for Teachers program (redesigned brochures, sent e-mails), 2023.
* Career Fair, Oakdale STEM Elementary, Rock Hill SC (2023)
* Activities/demonstrations, Rock Hill Schools Science Fair.
* Activities/demonstrations, Girls in STEM Conference, Houston, TX.
* Science Fair Judge, East Central Indiana.

**RESEARCH STUDENTS MENTORED**

(name, graduation year, current position)

*Winthrop University (expected graduation year in parenthesis)*

* Lane Chamberlain, 2024
* Julianne Pho, 2026
* Taegan Smith, 2024
* Emma Westmoreland, 2024
* Jadyn Williams, 2024
* Lilly Meisten, 2025
* Grace Outz, 2025
* Leonor Paisana, 2025
* Morgan Hunter, 2024
* Kierra McCall, 2024 as MA in Biology
* Allen Livingston, 2023
* Thomas Gonzalez, 2023
* Ashley Wood, 2023
* Brandon Ellison
* Joshua Quarles, 2022, BASF
* Resa Allen, 2021, Elkem Silicones
* Thomas Sullivan, 2021, Siemens Energy; accepted to Ph.D. program at University of South Carolina, Columbia.

*Ball State University*

* Mark Buckles, 2017, Senior Research Analyst, S&P Global Market Intelligence
* Beau Champ, 2016, Biochemist
* Evan Jones, 2015, Ph.D. at Wayne State University (2023)
* Carolyn Conley, 2015
* Brenna Wermers, 2014
* Steven Trick, 2013
* Nicholas Frecker, 2013, Scientist I in Assay Development, B2S Life Sciences
* Laura (Smith) Howell, 2013, Thermofisher Scientific
* Philip Belcher, 2013
* Alysa Frank, 2011
* Delores James, 2011, MS in Chemistry at Syracuse University
* Laura Edwards, 2011
* Svetlana Pekovic, 2010, Doctor of Optometry, Indiana University
* Whitney Howe, 2009, Research Assistant Cincinnati Children’s Hospital
* Krystal Street Roark, 2009, Field Service-Support Engineer, TeleDyne FLIR
* Ambar Rana, 2009, Ph.D. University of Wisconsin, Madison

**STUDENTS ACHIEVEMENTS AND AWARDS**

Winthrop University

* Morgan Hunter – 2023 Southeast Regional IDeA Conference, Columbia, SC; 3rd place in chemistry/biochemistry
* Joshua Quarles – 2022 Winthrop SOURCE, Best Poster in STEM.
* Brandon Ellison – 2021 SAEOPP McNair Scholars Research Conference, Best Oral Presentation in the Physical Sciences.

Ball State University

* Evan Jones – 2015 Department of Chemistry, Ball State University Undergraduate Research Award.
* Brenda Wermers – 2014 Graduated with Honors.
* Svetlana Pekovic – 2010 Graduated with Honors.
* Ambar Rana – 2009 Department of Chemistry, Ball State University Undergraduate Research Award.
* Svetlana Pekovic – 2008 LSAMP/AGEP conference, Purdue University, 3rd Prize for outstanding poster presentation.

**WORK PRESENTED AT PROFESSIONAL MEETINGS (P- poster; O-oral presentation, presenter underlined)**

* Clemson-MUSC Annual AI Summit, October 2023. Lane Chamberlain, Emma Westmoreland, Brandon Ellison, Thomas Gonzalez, Zachary Abernathy, Kristen Abernathy and Timea G. Fernandez, Machine learning enhanced design of RNA-based fluorescent biosensors for the detection of the neurotransmitter dopamine (**P**).
* 2023 Southeast Regional IDeA Conference, September 2023. Morgan Hunter, Elizabeth Skelly, Leyla Danai-Noldner, Yasmine Radwan, Allen Livingston, Kierra McCall, Dr. Victoria Frost, Dr. Kirill Afonin and Dr. Timea G. Fernandez, Nucleic Acid Aptamer Au/Ag Nanoparticle Conjugates as Trojan-Horse drug Delivery Vehicles in the Fight Against Bacterial Infections (**P**).
* Fourteenth Annual Science Symposium – SC INBRE. February 2023. Joshua Quarles, Allen Livingston, Morgan Hunter, Kierra McCall, Ashley Wood, Victoria Frost and Timea Gerczei Fernandez, Nucleic Acid Aptamer Au/Ag Nanoparticle Conjugates as Trojan-Horse drug Delivery Vehicles in the Fight Against Bacterial Infections (**P**).
* Gordon Research Conference – RNA Nanotechnology, January 2023. Joshua Quarles, Allen Livingston, Morgan Hunter, Kierra McCall, Ashley Wood, Victoria Frost and Timea Gerczei Fernandez, Nucleic Acid Aptamer Au/Ag Nanoparticle Conjugates as Trojan-Horse drug Delivery Vehicles in the Fight Against Bacterial Infections (**P**).
* 2022 MADE in SC Research Fellows/All-Faculty Conference, October 2023 Greenville, SC. Joshua Quarles, Allen Livingston, Morgan Hunter, Kierra McCall, Ashley Wood, Victoria Frost and Timea Gerczei Fernandez, Nucleic Acid Aptamer Au/Ag Nanoparticle Conjugates as Trojan-Horse drug Delivery Vehicles in the Fight Against Bacterial Infections (**P**).
* 2022 MADE in SC Research Fellows/All-Faculty Conference, October 2023 Greenville, SC. Thomas Gonzalez\*, Brandon Ellison\* and Timea Gerczei Fernandez. Fabrication of an RNA-based sensor for the neurotransmitter dopamine. (**P**)
* SOURCE Symposium, Winthrop University, April2022. “Using Tetracycline-Binding Nucleic Acid Aptamers as Trojan-Horse Tetracycline Delivery Vehicles in the Fight Against Drug-Resistant Bacteria”,Joshua Quarles, Ashley Wood, Allen Livingston, Victoria Frost and Timea G Fernandez (**P**).
* 2021 Southeast Regional IDeA Conference, San Juan, Puerto Rico, November 2021. “Elucidating The Effect of the Antibiotic Tetracycline on The Regulatory Function of the Guanidine-Sensing Riboswitch ykkCD“, Thomas Sullivan, Nicholas Frecker, Beau Champ, Evan Jones, Ambar Rana, Delores James, Steven Trick, John McKillip, and Timea G Fernandez (**P**).
* S.U.R.E Symposium, October 2021, Winthrop University “Using Tetracycline-Binding Nucleic Acid Aptamers as Trojan-Horse Tetracycline Delivery Vehicles in the Fight Against Drug-Resistant Bacteria”, Allen Livingston, Josh Quarles, Ashley Wood, Thomas Sullivan, Victoria Frost and Timea G Fernandez (**P**).
* SC EPSCoR State Conference, held virtually on July 2021. “Using Tetracycline-Binding Nucleic Acid Aptamers as Trojan-Horse Tetracycline Delivery Vehicles in the Fight Against Drug-Resistant Bacteria”, Allen Livingston, Joshua Quarles, Ashley Wood, Victoria Frost and Timea G Fernandez. (**T**)
* McNair Symposium, Winthrop University, June 2021 “Fabrication of an RNA-based nanosensor for the detection of dopamine” June 2021, Brandon Ellison, Courtney Guenther and Timea G Fernandez (**T**).
* S.U.R.E. Symposium, October 2020, Winthrop University “Using nucleic acid-gold nanoparticle conjugates in the fight against bacteria that are resistant to tetracycline antibiotics”. Allen Livingston, Mark Buckles. John McKillip and Timea G Fernandez (**P**).
* RNA Nanotechnology Gordon Conference, 2017 Ventura, California. “Using ykkCD – a tetracycline-sensing riboswitch as a Trojan-horse tetracycline delivery vehicle to fight against resistant bacteria” Nicholas Frecker, Beau Champ, Mark Buckles, Evan Jones, John McKillip, Ambar Rana, Delores James, Steven Trick and Timea Gerczei (**P**).
* The Rustbelt RNA Meeting, October 2015, Cedar Point, OH. “[A mechanistic and structural study of a yet uncharacterized RNA sensor: the ykkCD riboswitch](http://rustbeltrna.org/2015/talks.php?number=225)” Beau Champ, Ambar Rana, Nicholas Frecker, Delores James, Timea Gerczei (**T**).
* The Rustbelt RNA Meeting, October 2015, Cedar Point, OH., “Using the ykkCD riboswitch as a caging compound for targeted drug delivery. Evan Jones, Von Grogg, and Timea Gerczei (**P**).
* The Rustbelt RNA Meeting, October 2014, Pittsburgh, PA. “Using SHAPE chemistry to determine the structure of the ykkCD riboswitch.” Beau Champ and Timea Gerczei (**P**).
* The Rustbelt RNA Meeting, October 2014, Pittsburgh, PA. “Using the ykkCD riboswitch as caging compound for targeted drug deliveries”. Evan Jones and Timea Gerczei (**P**).
* The Rustbelt RNA Meeting, October 2014, Pittsburgh, PA. “Mapping of Structural Changes to the ykkCD Antibiotic Sensor RNA Caused by Tetracycline Binding”. Caroline Conley and Timea Gerczei (**P**).
* The 128th Annual Meeting of the Indiana Academy of Sciences, March 2013, Indianapolis IN. “Gene expression regulation by the ykkCD putative riboswitch in B Subtilis”; Nicholas Frecker and Timea Gerczei (**T**).
* The Rustbelt RNA Meeting October 2012, Dayton OH. “[Regulation of the putative ykkCd riboswitch by tetracycline and related antibiotics in B. Subtilis](http://rustbeltrna.org/2011/posters.php?number=23); Nicholas Frecker, Rana Ambar, John McKillip and Timea Gerczei (**P**).
* The Rustbelt RNA Meeting October 2011, Dayton OH “[How expression of antibiotic resistance genes is triggered in bacteria: a structural study of the ykkCD tetracycline-responsive riboswitch RNA](http://rustbeltrna.org/2011/posters.php?number=23); Alysa Frank and Timea Gerczei (**P**).
* ACS, 2011 Anaheim CA. “Understanding the structural underpinnings of tetracycline recognition by the antibiotic sensor riboswitch ykkCD”; Delores James and Timea Gerczei (**P**).
* ACS, 2011 Anaheim CA. “Characterization of ykkCD –a riboswitch that regulates expression of a multidrug-resistant efflux pump”; Alysa Frank and Timea Gerczei (**P**).
* ACS, 2011 Anaheim CA. “Mutagenesis studies to uncover a hot-spot for antibiotic recognition by the antibiotic sensor riboswitch ykkCD”; Laura Edward and Timea Gerczei (**P**).
* ACS, 2009 Salt Lake City, Utah. “Mapping the structure of the ON and OFF state of the ykkCD riboswitch; Krystal Street Roark and Timea Gerczei” (**P**).
* ACS, 2009 Salt Lake City, Utah. “Exploring the binding specificity of the ykkCD riboswitch aptamer domain using fluorescent spectroscopy” Whitney Howe and Timea Gerczei (**P**).
* The Rustbelt RNA Meeting, October 2008, Mt Sterling Ohio. “Mapping the structure of the ON and OFF state of the ykkCD riboswitch”; Krystal Street Roark and Timea Gerczei (**P**).
* The Rustbelt RNA Meeting, October 2008 Mt Sterling Ohio. “Exploring the binding specificity of the ykkCD riboswitch aptamer domain using fluorescent spectroscopy”. Svetlana Pekovic, Whitney Howe and Timea Gerczei (**P**).
* The Rustbelt RNA Meeting, October 2008, Sterling Ohio. “Investigation of the expression of the ykkCD multidrug-resistant efflux pump in response to antibiotics”. Ambar Rana, John McKillip and Timea Gerczei (**P**).
* The Rustbelt RNA Meeting, October 2008, Sterling Ohio; “The mechanism of gene expression regulation by the ykkCD riboswitch”. Whitney Howe and Timea Gerczei (**P**).
* The Indiana section of the ACS, October 2008, Ball State University. “Mapping the structure of the ON and OFF state of the ykkCD riboswitch”; Krystal Street Roark and Timea Gerczei (**P**).
* The Indiana section of the ACS, October 2008, Ball State University. “Exploring the binding specificity of the ykkCD riboswitch aptamer domain using fluorescent spectroscopy”. Svetlana Pekovic, Whitney Howe and Timea Gerczei (**P**).
* The Indiana section of the ACS, October 2008, Ball State University. “Investigation of the expression of the ykkCD multidrug-resistant efflux pump in response to antibiotics”. Ambar Rana, John McKillip and Timea Gerczei (**P**).
* The Indiana section of the ACS, October 2008, Ball State University. “The mechanism of gene expression regulation by the ykkCD riboswitch”. Whitney Howe and Timea Gerczei (**P**).
* 13th Annual Meeting of the RNA Society, 2008, Berlin, Germany - Initial characterization of ykkCD - a riboswitch that regulates gene expression of membrane transporters; Krystal Street Roark, Kyle Stephens, Whitney Howe, Amanda Robinson, Svetlana Pekovic and Timea Gerczei.
* 12th Annual Meeting of the RNA Society, 2007, Madison, WI Mechanistic insights into how RNA chaperone activity facilitates eukaryotic ribosome biogenesis; Tímea Gérczei, Anthony Manzo, Nils Walter, Carl Correll (T).