

Jessica Pflieger

Date: May 24, 2021

Present Title: Assistant Professor

Laboratory Address: Fralin Biomedical Research Institute at VTC
Center for Vascular and Heart Research
R-2206, 4 Riverside Circle, Roanoke, VA 24016

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Education and Professional Experience

Assistant Professor **July 2021-Present**
Fralin Biomedical Research Institute at Virginia Tech Carilion, Roanoke, VA
Center for Vascular and Heart Research
Department of Biological Sciences, Department of Science
Research Focus: Transcriptional mechanisms of heart disease

Instructor (Research) **June 2019-June 2021**
Temple University- Lewis Katz School of Medicine, Philadelphia, PA
Center for Translational Medicine
Research Focus: Transcriptional mechanisms of heart disease

Postdoctoral Fellowship **October 2015-May 2019**
Temple University- Lewis Katz School of Medicine, Philadelphia, PA
Center for Translational Medicine
Laboratory of Dr. Walter J. Koch
Project: The interplay between β -adrenergic signaling and metabolism in cardiovascular disease and failure.

Doctoral Fellowship **August 2009-September 2015**
Rutgers University- New Jersey Medical School, Newark, NJ
Department of Cellular Biology and Molecular Medicine
Laboratory of Dr. Maha Abdellatif
Project: The role of metabolic sensors and mitochondrial complex II in cardiomyocyte bioenergetics and survival.

Undergraduate Researcher **January 2007-May 2009**
State University of New York (SUNY) Upstate Medical University, Syracuse, NY
Department of Microbiology and Immunology
Laboratory of Dr. Jennifer F. Moffatt
Project: The role of cell cycle dysregulation in varicella zoster virus replication and pathogenesis.

Undergraduate Studies **August 2005-May 2009**

Syracuse University, Syracuse, NY
B.S. Biology, *magna cum laude*

Membership in Professional Societies

American Heart Association- Council for Basic Cardiovascular Sciences **2011-Present**
International Society for Heart Research **2014-Present**

Honors and Awards

American Heart Association- Louis N. and Arnold M. Katz Basic Science
Research Prize for Early Career Investigators- Finalist **2019**
American Heart Association- Best of AHA Specialty Conferences Invitation **2018**
American Heart Association- BCVS- New Investigator Travel Award **2018**
International Society for Heart Research- Best Poster Award **2018**
International Society for Heart Research- Early Career Investigator Travel Award **2018**
The American Society for Pharmacology and Experimental Therapeutics (ASPET):
Mid-Atlantic Pharmacology Society- Invited Oral Presentation Award **2017**
Temple University Translation Science Symposium- Best Poster Award **2017**
Seahorse Bioscience Poster Travel Award- AHA Scientific Sessions **2013**
Research Achievement Award- Syracuse University **2009**
Academic Excellence Award- Syracuse University **2009**
Distinction in Biology- Syracuse University **2009**
Phi Beta Kappa Honor Society **2009**
Golden Key Honor Society **2009**
The National Scholars Honor Society **2009**
The National Society of Collegiate Scholars **2006**
Phi Eta Sigma Honor Society **2006**

Invitations

Peer Reviewer- *Circulation Research, Journal of Molecular and Cellular Cardiology (JMCC), Scientific Reports, Life Sciences, Molecular Medicine* **2020-Present**
Peer Reviewer- AHA Predoctoral and Postdoctoral Fellowships **2021**
Session Chair- International Society for Heart Research, NAS Meeting **2020**
Peer Reviewer- AHA Transformational Project Award **2020**
Peer Reviewer- AHA Predoctoral and Postdoctoral Fellowships **2019**
Thesis Committee- External Examiner- Yong Heui Jeon- Rutgers University **2019**
Session Chair- International Society for Heart Research, NAS Meeting **2015**

Service

Diversity Advisory Council Member- Temple University-LKSOM **2017-2019**
Stem Cell Education Society- Outreach Chair- Rutgers University **2010-2011**

Stem Cell Education Society- Member- Rutgers University
Phi Eta Sigma Honor Society- President- Syracuse University
Faculty Promotion and Tenure Committee- Syracuse University

2009-2011
2008-2009
2007-2009

Grant Support

AHA Career Development Award- 19CDA34770052 **06/01/19-05/31/22**
Project: The role of REDD1 in cardiac insulin sensitivity
PI: Jessica M. Pflieger

AHA Postdoctoral Fellowship- 18POST33960287 **07/01/18-06/30/20**
Project: The role and targets of G protein-coupled receptor kinase 2 (GRK2) in myocardial mitochondria
PI: Jessica M. Pflieger
Declined to accept NIH Postdoctoral Fellowship

NIH Postdoctoral Fellowship- F32HL139031 **06/01/18-05/31/19**
Project: Novel mechanisms for adrenergic-mediated myocardial insulin resistance
PI: Jessica M. Pflieger

NIH Training Grant- 5T32HL091804-09 **06/01/17-05/31/18**
PI: Steven R. Houser and Walter J. Koch

NIH Training Grant- 5T32HL091804-08 **06/01/16-05/31/17**
PI: Steven R. Houser and Walter J. Koch

NIH Training Grant- 5T32HL069752-09 **02/21/14-02/20/15**
PI: Stephen F. Vatner

NIH Training Grant- 5T32HL069752-09 **02/21/13-02/20/14**
PI: Stephen F. Vatner

NIH Training Grant- 5T32HL069752-08 **02/21/12-02/20/13**
PI: Stephen F. Vatner

NIH Training Grant- 5T32HL069752-07 **02/21/11-02/20/12**
PI: Stephen F. Vatner

Publications

1. He M, Ibeti J, Abdellatif M, Koch WJ, **Pflieger J**. REDD1 mediates cardiac insulin resistance via the direct inhibition of metabolic genes. *In Preparation*.
2. **Pflieger J**. Measurements of mitochondrial respiration in intact cells, permeabilized cells, and isolated tissue mitochondria using the Seahorse XF Analyzer. *Methods in Molecular Biology- Mitochondria Methods and Protocols* Edition. Springer Nature.

2021. *Invited Book Chapter- In Press.*

3. Yang Z, He M, Austin J, **Pfleger J**, Abdellatif M. Histone H3K9 butyrylation is regulated by dietary fatty and stress via an acyl-CoA dehydrogenase short chain-dependent mechanism; *Mol Metab.* 2021 May 11;101249. PMID: 33989779
4. Bledzka KM, Manaserh IH, Grondolsky J, **Pfleger J**, Roy R, Gao E, Chuprun JK, Koch WJ, Schumacher SM. A peptide of the amino-terminus of GRK2 induces hypertrophy and yet elicits cardioprotection after pressure overload; *J Mol Cell Cardiol.* 2021 Feb 4;154:137-153. PMID: 33548241
5. Heui Jeon Y, He M, Austin J, Shin H, **Pfleger J**, Abdellatif M. Adiponectin enhances the bioenergetics of cardiac myocytes via an AMPK- and succinate dehydrogenase-dependent mechanism; *Cell Signal.* 2020 Dec 1;78:109866. PMID: 33271223
6. **Pfleger J***, Coleman RC, Ibeti J, Roy R, Kyriazis ID, Gao E, Drosatos K, Koch WJ*. Genomic binding patterns of forkhead box protein O1 reveal its unique role in cardiac hypertrophy; *Circulation.* 2020 September 1;142:882-898. PMID: 32640834

***Corresponding Author**

7. Lieu M, Traynham CJ, De Lucia C, **Pfleger J**, Piedepalumbo M, Roy R, Petovic J, Landesberg GP, Forrester S, Hoffman M, Grisanti L, Yuan A, Gao E, Drosatos K, Eguchi S, Scalia R, Tilley DG, Koch WJ. Loss of dynamic regulation of G protein-coupled receptor kinase 2 by nitric oxide leads to cardiovascular dysfunction with aging; *Am J Physiol Heart Circ Physiol.* 2020 May 1;318(5):H1162-H1175. PMID: 32216616
8. Wallner M, Eaton DM, Berretta RM, Liesinger L, Schittmayer M, Gindlhuber J, Wu J, Jeong MY, Lin YH, Borghetti G, Baker ST, Zhao H, **Pfleger J**, Blass S, Rainer PP, Von Lewinski D, Bugger H, Mohsin S, Graier WF, Zirlik A, McKinsey TA, Birner-Gruenberger R, Wolfson MR, Houser SR. HDAC inhibition improves cardiopulmonary function in a model with features of heart failure with preserved ejection fraction; *Sci Transl Med.* 2020 Jan 8;12(25). PMID: 31915304
9. **Pfleger J***, Choi S*, Heui Jeon Y, Yang Z, He M, Shin H, Sayed D, Astrof S, Abdellatif M. Oxoglutarate dehydrogenase and acetyl-CoA acyltransferase 2 selectively associate with H2A.Z-occupied promoters and are required for histone modifications; *Biochim Biophys Acta Gene Regul Mech.* 2019 Oct;1862(10):194436. PMID: 31682939

***Equal Contribution**

10. Vagnozzi RJ, **Pfleger J**, Sadayappan S. Basic Cardiovascular Sciences Scientific Sessions 2019: Integrative Approaches to Complex Cardiovascular Diseases; *Circ Res.* 2019 September;125:924-931. PMID: 31647770
11. **Pfleger J**, Gresham K, Koch WJ. G-protein-coupled receptor kinases in the heart: therapeutic targets; *Nat Rev Cardiol.* 2019 June;16:612-622. PMID: 31186538
12. Woodall BP, Gresham KS, Woodall MA, Valenti MC, Cannavo A, **Pfleger J**, Drosatos K, Koch WJ. Alteration of Myocardial GRK2 Produces a Global Metabolic Phenotype. *JCI Insight.* 2019 Apr 4;5. PMID 30946029
13. **Pfleger J**, Gross P, Johnson J, Gao E, Houser SR, Koch WJ; G protein-coupled receptor kinase 2 contributed to impaired fatty acid metabolism in the failing heart; *J Mol Cell Cardiol.* 2018 Oct;123:108-117. PMID: 30171848
14. Shin H, He M, Yang Z, Jeon YH, **Pfleger J**, Sayed D, Abdellatif M; Transcriptional regulation mediated by H2A.Z via ANP32e-dependent inhibition of protein

phosphatase 2A; *Biochim Biophys Acta Gene Regul Mech.* 2018 May;1861(5):481-496. PMID: 29524612

15. **Pfleger J**, He M, Abdellatif M; Mitochondrial complex II is a source of the reserve respiratory capacity that is regulated by metabolic sensors and promotes cell survival; *Cell Death Dis.* 2015 Jul 30;6:e1835. PMID: 26225774
16. Ikeda Y, Shirakabe A, Maejima Y, Zhai P, Sciarretta S, **Toli J**, Nomura M, Mihara K, Egashira K, Ohishi M, Abdellatif M, Sadoshima J; Endogenous Drp1 Mediates Mitochondrial Autophagy and Protects the Heart Against Energy Stress; *Circ Res.* 2015 Jan 16;116(2):264-78. PMID: 25332205
17. Sayed D, He M, Yang Z, **Pfleger J**, Abdellatif M; Acute targeting of general transcription factor IIB restricts cardiac hypertrophy via selective inhibition of gene transcription; *Circ Heart Fail.* 2015 Jan;8(1):138-48. PMID: 25398966
18. Han M, **Toli J**, Abdellatif M; MicroRNAs in the cardiovascular system; *Curr Opin Cardiol.* 2011 May; 26(3):181-9. PMID: 21464712

Abstracts

1. **Pfleger J**, Coleman RC, Ibetti J, Roy R, Gao E, Koch WJ; Genomic Binding of Forkhead Box Protein O1 Reveals its Unique Role in Cardiac Hypertrophy; Poster presentation at Epigenetics in Cancer Symposium- Fox Chase Cancer Center, 2019
2. **Pfleger J**, Coleman RC, Ibetti J, Roy R, Gao E, Koch WJ; Genomic Binding of Forkhead Box Protein O1 Reveals its Unique Role in Cardiac Hypertrophy; Oral presentation for the Louis N. and Arnold M. Katz Basic Science Research Prize for Early Career Investigators at American Heart Association: Scientific Sessions, 2019
3. **Pfleger J**, Ibetti J, Roy R, Gao E, Koch WJ; Genomic Binding of Forkhead Box Protein O1 Reveals its Unique Role in Cardiac Hypertrophy; Poster presentation at NYC Inter-Institutional Cardiovascular Retreat, 2019
4. **Pfleger J**, Ibetti J, Roy R, Gao E, Koch WJ; Genomic Binding of Forkhead Box Protein O1 Reveals its Unique Role in Cardiac Hypertrophy; Oral and poster presentations at Gordon Research Conferences- Epigenetic Regulation of Cardiovascular Disease, 2019
5. **Pfleger J**, Gross P, Johnson J, Gao E, Houser SR, Koch WJ; G Protein-coupled Receptor Kinase 2 Impairs Fatty Acid Metabolism in the Failing Heart Through Novel Mechanisms; Poster presentation at American Heart Association: Scientific Sessions, 2018
6. **Pfleger J**, Gross P, Johnson J, Gao E, Houser SR, Koch WJ; G Protein-coupled Receptor Kinase 2 Impairs Fatty Acid Metabolism in the Failing Heart Through Novel Mechanisms; Oral presentation at American Heart Association: Basic Cardiovascular Sciences Scientific Sessions, 2018
7. **Pfleger J**, Gross P, Johnson J, Gao E, Houser SR, Koch WJ; G protein-coupled receptor kinase 2 contributes to impaired fatty acid metabolism in the failing heart; Poster presentation at G-Protein Signaling Workshop, Thomas Jefferson University, 2018
8. **Pfleger J**, Gross P, Johnson J, Gao E, Houser SR, Koch WJ; G protein-coupled receptor kinase 2 contributes to impaired fatty acid metabolism in the failing heart;

Oral and poster presentation at International Society for Heart Research: North American Section Meeting, 2018

9. **Pfleger J**, Koch WJ; G Protein-coupled Receptor Kinase 2 Negatively Regulates Fatty Acid Utilization and Mitochondrial Bioenergetics; Oral presentation at American Heart Association: Scientific Sessions, 2017
10. **Pfleger J**, Koch WJ; G Protein-coupled Receptor Kinase 2 Negatively Regulates Fatty Acid Utilization and Mitochondrial Bioenergetics; Oral presentation at The American Society for Pharmacology and Experimental Therapeutics (ASPET): Mid-Atlantic Pharmacology Society Annual Meeting, 2017
11. **Pfleger J**, Ibeti J, Koch WJ; Novel Mechanisms for Adrenergic-Mediated Myocardial Insulin Resistance; Poster presentation at the Temple Translational Science Symposium, 2017
12. **Pfleger J**, Koch WJ; Chronic Beta-Adrenergic Stimulation Prevents Protective Insulin-Induced Increases in Cardiomyocyte Respiratory Capacity; Poster presentation at American Heart Association: Basic Cardiovascular Sciences Scientific Sessions, 2017
13. **Pfleger J**, Koch WJ; Assessment of bioenergetic profiles of cardiomyocytes isolated from GRK2 mouse models; Oral and Poster presentation at Keystone Symposia Conference: Mitochondria, Metabolism, and Heart Failure, 2017
14. **Pfleger J**, Xiao K, Koch WJ; G Protein-coupled Receptor Kinase 2 Associates with Metabolic Proteins and Negatively Alters Mitochondrial Respiration; Poster presentation at American Heart Association: Scientific Sessions, 2016
15. **Pfleger J**, Sato PY, Xiao K, Koch WJ; G Protein-coupled Receptor Kinase 2 Associates with Metabolic Proteins and Negatively Alters Mitochondrial Respiration; Poster presentation at the Temple Translational Science Symposium, 2016
16. **Pfleger J**, Xiao K, Koch WJ; G Protein-coupled Receptor Kinase 2 Associates with Metabolic Proteins and Negatively Alters Mitochondrial Respiration; Poster presentation at The 6th Regional Translational Research in Mitochondrial, Aging, and Disease (TriMAD) Symposium at the Children's Hospital of Philadelphia Research Institute, 2016
17. **Pfleger J**, Sato PY, Xiao K, Koch WJ; Protein-coupled Receptor Kinase 2 Associates with Mitochondrial Proteins and Negatively Alters Mitochondrial Respiration after Myocardial Infarction; Poster presentation at American Heart Association: Basic Cardiovascular Sciences Scientific Sessions, 2016
18. **Pfleger J**, He M, Abdellatif M; Mitochondrial Complex II is a Source of the Reserve Respiratory Capacity that is Regulated by Metabolic Sensors via Sirtuin 3; Poster presentation at 11th International Congress on Coronary Artery Disease, 2015
19. **Pfleger J**, He M, Abdellatif M; Mitochondrial Complex II is a Source of the Reserve Respiratory Capacity that is Regulated by Metabolic Sensors via Sirtuin 3; Poster presentation at American Heart Association: Basic Cardiovascular Sciences Scientific Sessions, 2015
20. **Pfleger J**, He M, Abdellatif M; Mitochondrial complex II is a source of the reserve respiratory capacity that is regulated by metabolic sensors via sirtuin 3; Poster presentation at International Society for Heart Research: North American Section Meeting, 2015

21. **Pfleger J**, He M, Abdellatif M; Mitochondrial complex II is a source of the reserve respiratory capacity that promotes myocyte survival; Oral presentation at Seahorse XF Users' Group Meeting/ Mitochondrial Symposium, 2015
22. **Pfleger J**, He M, Abdellatif M; Mitochondrial complex II is a source of the reserve respiratory capacity that promotes myocyte survival; Poster presentation at Keystone Symposia Conference: Mitochondria, Metabolism and Heart Failure, 2015
23. **Toli J**, He M, Suzuki C, Abdellatif M; Recovery of Mitochondrial Bioenergetics after Hypoxia via Regulating Pyruvate Dehydrogenase Kinase and AMP-activated Kinase; Poster presentation at American Heart Association: Basic Cardiovascular Sciences Scientific Sessions, 2014
24. **Toli J**, He M, Suzuki C, Abdellatif M; Recovery of Mitochondrial Bioenergetics after Hypoxia via Regulating Pyruvate Dehydrogenase Kinase and AMP-activated Kinase; Poster presentation at International Society for Heart Research: North American Section Meeting, 2014
25. **Toli J**, Yang Z, He M, Sayed D, Abdellatif M; The Reserve Respiratory Capacity in Cardiac Myocytes is Regulated by Metabolic Substrates, Hypoxia, and miR-199a; Poster presentation at American Heart Association: Scientific Sessions, 2013
26. **Toli J**, He M, Yang Z, Abouhabib M, Abdellatif M; Differential Sequestration of mRNA in Ribonucleoprotein Granules in the Heart; Poster presentation at American Heart Association: Scientific Sessions, 2011

Presentations

1. **Pfleger J**. Transcriptional Control in Cardiac Health and Disease; Invited Speaker for tenure-track faculty position- University of Arizona College of Medicine- Phoenix, Translational Cardiovascular Research Center, 2021
2. **Pfleger J**. Transcriptional Control in Cardiac Health and Disease; Invited Speaker for tenure-track faculty position- Fralin Biomedical Research Institute, Virginia Tech Carilion School of Medicine, Center for Heart and Reparative Medicine Research, 2020
3. **Pfleger J**. Transcriptional Control in Cardiac Health and Disease; Invited Speaker for tenure-track faculty position- Medical College of Georgia, Augusta University, Department of Pharmacology and Toxicology, 2020
4. **Pfleger J**. Transcriptional Control in Cardiac Health and Disease; Invited Speaker for tenure-track faculty position- University of Houston, College of Pharmacy, Department of Pharmacological and Pharmaceutical Sciences, 2020
5. **Pfleger J**, Coleman RC, Ibeti J, Roy R, Gao E, Koch WJ; Genomic Binding of Forkhead Box Protein O1 Reveals its Unique Role in Cardiac Hypertrophy; Poster presentation at Epigenetics in Cancer Symposium- Fox Chase Cancer Center, 2019
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7. **Pfleger J**, Ibeti J, Roy R, Gao E, Koch WJ; Genomic Binding of Forkhead Box Protein O1 Reveals its Unique Role in Cardiac Hypertrophy; Poster presentation at NYC Inter-Institutional Cardiovascular Retreat, 2019

8. **Pfleger J**, Ibeti J, Roy R, Gao E, Koch WJ; Genomic Binding of Forkhead Box Protein O1 Reveals its Unique Role in Cardiac Hypertrophy; Oral and poster presentations at Gordon Research Conferences- Epigenetic Regulation of Cardiovascular Disease, 2019
9. **Pfleger J**, Gross P, Johnson J, Gao E, Houser SR, Koch WJ; G Protein-coupled Receptor Kinase 2 Impairs Fatty Acid Metabolism in the Failing Heart Through Novel Mechanisms; Poster presentation at American Heart Association: Scientific Sessions, 2018
10. **Pfleger J**, Gross P, Johnson J, Gao E, Houser SR, Koch WJ; G Protein-coupled Receptor Kinase 2 Impairs Fatty Acid Metabolism in the Failing Heart Through Novel Mechanisms; Oral presentation at American Heart Association: Basic Cardiovascular Sciences Scientific Sessions, 2018
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15. **Pfleger J**, Ibeti J, Koch WJ; Novel Mechanisms for Adrenergic-Mediated Myocardial Insulin Resistance; Poster presentation at the Temple Translational Science Symposium, 2017
16. **Pfleger J**, Koch WJ; Chronic Beta-Adrenergic Stimulation Prevents Protective Insulin-Induced Increases in Cardiomyocyte Respiratory Capacity; Poster presentation at American Heart Association: Basic Cardiovascular Sciences Scientific Sessions, 2017
17. **Pfleger J**, Koch WJ; Assessment of bioenergetic profiles of cardiomyocytes isolated from GRK2 mouse models; Oral and Poster presentation at Keystone Symposia Conference: Mitochondria, Metabolism, and Heart Failure, 2017
18. **Pfleger J**, Xiao K, Koch WJ; G Protein-coupled Receptor Kinase 2 Associates with Metabolic Proteins and Negatively Alters Mitochondrial Respiration; Poster presentation at American Heart Association: Scientific Sessions, 2016
19. **Pfleger J**, Sato PY, Xiao K, Koch WJ; G Protein-coupled Receptor Kinase 2 Associates with Metabolic Proteins and Negatively Alters Mitochondrial Respiration; Poster presentation at the Temple Translational Science Symposium, 2016
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and Disease (TriMAD) Symposium at the Children's Hospital of Philadelphia Research Institute, 2016

21. **Pfleger J**, Sato PY, Xiao K, Koch WJ; Protein-coupled Receptor Kinase 2 Associates with Mitochondrial Proteins and Negatively Alters Mitochondrial Respiration after Myocardial Infarction; Poster presentation at American Heart Association: Basic Cardiovascular Sciences Scientific Sessions, 2016
22. **Pfleger J**, He M, Abdellatif M; Mitochondrial Complex II is a Source of the Reserve Respiratory Capacity that is Regulated by Metabolic Sensors via Sirtuin 3; Poster presentation at 11th International Congress on Coronary Artery Disease, 2015
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25. **Pfleger J**, He M, Abdellatif M; Mitochondrial complex II is a source of the reserve respiratory capacity that promotes myocyte survival; Oral presentation at Seahorse XF Users' Group Meeting/ Mitochondrial Symposium, 2015
26. **Pfleger J**, He M, Abdellatif M; Mitochondrial complex II is a source of the reserve respiratory capacity that promotes myocyte survival; Poster presentation at Keystone Symposia Conference: Mitochondria, Metabolism and Heart Failure, 2015
27. **Pfleger J**, He M, Abdellatif M; The Role of Bioenergetics in Cell Survival; Invited speaker for postdoctoral position- Temple University, Lewis Katz School of Medicine, 2015
28. **Pfleger J**, He M, Abdellatif M; The Role of Bioenergetics in Cell Survival; Invited speaker for postdoctoral position- Albert Einstein College of Medicine, 2014
29. **Toli J**, He M, Suzuki C, Abdellatif M; Recovery of Mitochondrial Bioenergetics after Hypoxia via Regulating Pyruvate Dehydrogenase Kinase and AMP-activated Kinase; Poster presentation at American Heart Association: Basic Cardiovascular Sciences Scientific Sessions, 2014
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31. **Toli J**, Yang Z, He M, Sayed D, Abdellatif M; The Reserve Respiratory Capacity in Cardiac Myocytes is Regulated by Metabolic Substrates, Hypoxia, and miR-199a; Poster presentation at American Heart Association: Scientific Sessions, 2013
32. **Toli J**, He M, Yang Z, Abouhabib M, Abdellatif M; Differential Sequestration of mRNA in Ribonucleoprotein Granules in the Heart; Poster presentation at American Heart Association: Scientific Sessions, 2011