

Siva Kumar Panguluri Ph.D., FABAP

**Siva K. Panguluri, Ph.D.**

**Associate Professor**

University of South Florida, Department of Pharmaceutical Sciences, Taneja College of Pharmacy, Tampa, Florida

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**Citizenship**

USA

**Education**

Ch. Ch. Singh University, Meerut, India. Doctor of Philosophy (PhD): 2006; Biotechnology.  
2003-2006

Andhra University, Waltair, India. Master of Sciences (MSc); Biotechnology, 1999  
1997-1999

Andhra University, Waltair, India. Bachelor of Sciences (BSc); Biotechnology, 1997  
1994-1997

**Postgraduate Training**

- University of Louisville, Louisville, KY USA: Post-Doctoral Fellow, for Cancer research in James Brown Cancer Center 2006- 2008
- University of Kentucky, Lexington, KY USA: Post-Doctoral Scholar, in "Gene-switches" for human gene therapy. 2005- 2006
- National Research Center for Plant Biotechnology (NRCPB), Indian Agricultural Research Institute (IARI), New Delhi, India: Senior Research Fellow (SRF) for "Transgenic plants development" 2000- 2004

**Awards, Honors, Honorary Society Memberships**

- Honorary Fellow of Association of Biotechnology and Pharmacy (2010)
- IMD3 symposium Travel award for AACR meeting (2008)
- CSIR National Eligibility Test for Lectureship & Research in India (2001)
- ICAR-NATP Senior Research Fellowship award for Biotechnology research (2000-2004)

## Appointments

- **Associate Professor (Tenure)**, Department of Pharmaceutical Sciences, Taneja College of Pharmacy, University of South Florida, Tampa FL USA (08/01/2021- Current).

Duties and responsibilities: Developing and conducting research projects for extramural funding. Teaching Doctor of Pharmacy (Pharm.D.) and graduate program (MS and Ph.D.) students. Supervising post-doctoral and graduate students. Leadership and supervisory roles in College and University committees. Publishing data in peer-reviewed high-Impact journals, presenting data in national and international conferences.

Job type: Full time, 12 months position, 40h a week.

- **Assistant Professor (Tenure earning)**, Department of Pharmaceutical Sciences, Taneja College of Pharmacy, University of South Florida, Tampa FL USA (01/10/2014-07/31/2021).

Duties and responsibilities: Developing and conducting research projects for extramural funding. Teaching Doctor of Pharmacy (Pharm.D.) and graduate program (MS and Ph.D.) students. Supervising post-doctoral and graduate students. Serving in College and University committees. Publishing data in peer-reviewed high-Impact journals, presenting data in national and international conferences.

Job type: Full time, 12 months position, 40h a week.

- **Research Associate**, Department of Pharmaceutical Sciences, Taneja College of Pharmacy, University of South Florida, Tampa FL USA (01/03/2011-01/09/2014).

Duties and responsibilities: Developing and conducting research projects for extramural funding. Teaching Doctor of Pharmacy (Pharm.D.) and graduate program (MS and PH.D.) students. Publishing data in peer-reviewed high-Impact journals, presenting data in national and international conferences.

Job type: Full time, 12 months position, 40h a week.

- **Research Instructor**, Department of Neurobiology, University of Louisville, Louisville, KY USA (12/15/2008-12/31/2011).

Duties and responsibilities: Developing and conducting research projects for extramural funding. Supervising post-doctoral and graduate students. Publishing data in peer-reviewed high-Impact journals, presenting data in national and international conferences.

Job type: Full time, 12 months position, 40h a week.

## **Leadership**

President- TCOP Faculty Council.

Chair- TCOP Research Committee

Chair- TCOP-DPS Environmental and Health Safety

## **Editorial roles in Peer-reviewed Journals:**

1. Editorial Board Member for Frontiers in Cardiovascular Medicine.  
[http://www.frontiersin.org/Molecular\\_Cardiology/editorialboard](http://www.frontiersin.org/Molecular_Cardiology/editorialboard)
2. Editorial Board Member for Frontiers in Physiology, integrative physiology.  
<https://www.frontiersin.org/journals/physiology/sections/integrative-physiology#editorial-board>
3. Editorial board member for “Current Trends in Biotechnology and Pharmacy” (CTBP) by Association of Biotechnology and Pharmacy (ABP), India. <http://www.abap.co.in/editorial-group>
4. Editorial board member for “International Journal of Pharma and Bio Sciences” (IJPBS)

## **Reviewer of peer-reviewed journals:**

1. Oncotarget
2. Journal of Cellular Physiology
3. Frontiers in Physiology
4. Frontiers in Cardiovascular Medicine
5. Journal of Cellular Physiology
6. PLoSOne
7. BMC Genomics
8. MDPI Biomedicine
9. Recent Patents in Biotechnology
10. Recent patents on DNA and Genes sequences
11. Molecular and Cellular Endocrinology
12. Genetic Resources and crop Evolution
13. Electronic Journal of Biotechnology
14. African Journal of Plant Sciences
15. African Journal of Biotechnology
16. Scientific Research and Essays

17. Academic Services

**National and International Research Grant review member:**

1. ESAT study section (NIH) Ad-hoc member February cycle, 2020.
2. NOW Talent Programme (ZonMw Veni programme) from The Netherlands Organisation for Health Research and Development (ZonMw and NWO).
3. Croatian Science Foundation Research Projects (HRZZ: 2019).
4. Department of Defense (DOD) Heart Disease Grant Pre-applications, CDMRP - PRMRP Pre-HD2
5. AHA Fellowship grant reviewer (Basic sciences Genetics and Epigenetics).
6. AHA Transformational project grants reviewer (Basic Cardiac Sciences)
7. Thomson Reuters EndNote Research Idea Contest.
8. UNCF-Merck Science Initiative Fellowship program.

**External Supervisor and Thesis reviewer:**

1. External examiner for PhD dissertation, Berhampur University, India
2. External examiner for Acharya Nagarjuna University, Nagarjuna Nagar, India.
3. Consultant for molecular biology and DNA markers for many international institutions and Universities (Iran and India).

**Supervisor/Coach/Mentor for students and research personnel:**

**PharmD students:**

1. Sushma Dey
2. Jared Forster
3. Angela Matheny
4. Trent Abel
5. Kaitlyn Seabrook
6. Randy Esfahani
7. Alexis Jalovec
8. Kacey Engler
9. Etkins Joshua

10. Michael Robeel

**Past:** Served as success coach for more than 20 PharmD students who successfully graduated and pursuing Pharmacy career/job.

**Graduate and Undergraduate:**

1. Sahith Vantenapalli (Undergraduate student)
2. Zain Abidin (TCOP Master's student)
3. Faizan Saleem (Undergraduate student)
4. Jennifer Rodgers (Post-Doctoral Fellow)
5. Kathleen Halasz (Master student)
6. Drishya Iyer (Undergraduate student) Currently Doctoral student at USF.
7. Lydiya Rodgers (Undergraduate student)
8. Samuel Bolleddu (Master Student)
9. Poornachandra Rao Yalagala (Post-Doctoral 2016). Currently working as Post-Doctoral fellow in Chicago.
10. Anjali Hirani (PhD student 2015). Completed PhD and currently working as CEO in a private company.
11. Anastasia Groshev (Master student, 2013). Completed MD and currently doing residency in General Surgery.
12. Sridhar Jarugula (Master student, 2005). Currently working as Post-Doctoral researcher at OSU, Columbus, OH.
13. Pradyut K Paul (PhD student, 2010). Currently working as Post-Doctoral fellow, University of Wisconsin.
14. Saeed, A.A (PhD student, 2010). Currently working as Assistant Professor, W.A. Agricultural Education & Research Center, Iran.
15. Katherine M. Pohlgeers (Master student, 2010). Completed MD and residency at University of Louisville and currently working as Family Practice physician at Louisville, KY.

**Teaching**

**Supervisory:**

- IDS2912: Undergrad Research Experience: Undergraduate Program, University of South Florida, Tampa. Mentor and instructor.
- IDS4914: Advance Undergraduate Research Experience: Undergraduate Program, University of South Florida, Tampa. Mentor and instructor.
- PHA6971: Master's Thesis: Taneja College of Pharmacy, University of South Florida, Tampa. Student mentor.
- TCOP Students Success Coach: Success Coach for 10 PharmD students, Taneja College of Pharmacy, University of South Florida, Tampa. Student Coach.

**Undergraduate Courses:**

- IDS2912: Undergrad Research Experience: Undergraduate Program, University of South Florida, Tampa. Mentor and instructor.

- IDS4914: Advance Undergraduate Research Experience: Undergraduate Program, University of South Florida, Tampa. Mentor and instructor.
- Basics of Genetics and genetic Engineering (IARI, New Delhi, India)
- Genetic Markers for Plant Breeding (IARI, New Delhi, India)

#### **Graduate programs (Ph.D and PharmD):**

- PHA6562 Physiologic Basis of Disease: Taneja College of Pharmacy, University of South Florida, Tampa. Instructor.
- PHA6797: Scientific Writing & Communication: Taneja College of Pharmacy, University of South Florida, Tampa. Course coordinator and instructor.
- PHA6449: Prospects in Pharmacogenomics: Taneja College of Pharmacy, University of South Florida, Tampa. Founding Course coordinator and instructor.
- PHA6130: Translational Pharmacogenomics: Taneja College of Pharmacy, University of South Florida, Tampa. Founding Course coordinator and instructor.
- PHA6787: Pharmacotherapeutics IV: Taneja College of Pharmacy, University of South Florida, Tampa. Instructor.
- PHA6795: Biostatistics and Research Methods: Taneja College of Pharmacy, University of South Florida, Tampa. Instructor.
- CECS 694-03: Current Topics in Bioinformatics: School of Medicine, University of Louisville, Louisville, KY. Instructor.

#### **Lectures by Invitation (international, national, regional, local)**

1. Title: Supplemental oxygen: A Friend or Foe? International Conference on Recent Advances in Biotechnology and Environmental Science (ICRABES), at Vellore Institute of Technology (VIT), India-2023. <https://vit.ac.in/ICRABES/>
2. Title: Effect of Supplemental Oxygen on cardiac Remodeling. Invited Guest lecture at Florida Atlantic University, CMMB Lecture Series- Spring 2021.
3. Title: Association of hyperoxia with CVD under mechanical ventilation: Potential mortality factor in COVID-19 patients.
4. COVID-19 Work-in-Progress Seminar – Summer 2020, Morsani College of Medicine, University of South Florida, Tampa USA.
5. Title: Effect of hyperoxia on cardiac remodeling in ICU under mechanical ventilation: A potential mortality factor in COVID-19 patients. International Webinar on COVID-19: Research Strategies & Therapeutics ( IWCRST), Adikavi Nannaya University, Rajamahendravaram, India.
6. Title: Cardiovascular complications under hyperoxia condition. International Conference on Emerging Trends in Biomedical and Nanotechnology: Relevance to Human

Challenges in Biotechnology, Human Health and Environment, 8th Annual Convention of Association of Biotechnology and Pharmacy, Devi Ahilya University, Indore, India.

7. Title: Central processing of Taste information, International Symposium on Emerging Trends in Biomedical and Nanotechnology: Relevance to Human Health. Association of Biotechnology and Pharmacy, Acharya Nagarjuna University, Guntur, India.

### **Scholarly Activity (grant history)**

#### **A) Current Grants**

None

#### **B) Pending Grants**

- Agency: NSF/BIO

I.D.# NSF-REU (CFDA# 47.074)

Title: "Advance Undergraduate Research in Physiology, Cell Biology, Bioinformatics and Nanotechnology"

P.I.: Panguluri, Siva. Ph.D.

- Agency: NIH/NHLBI

I.D.# 1 R01 HL165459-01 (re-submission)

Title: "The intersection of sex and gender influence on hyperoxia-induced cardiac remodeling in mouse model"

P.I.: Panguluri, Siva. Ph.D.

#### **C) Past Grants**

- Agency: NIH/NIA

I.D.# 3R15AG064674-01A1S1

Title: "Hyperoxia-induced KV channel regulation in an aging mouse model"

P.I.: Panguluri, Siva. Ph.D.

- Agency: NIH/NIA

ID#: R15 AG064674-01A1

Title: "Hyperoxia-induced Kv channel regulation in an aging mouse model"

P.I.: Panguluri, Siva. Ph.D.

- Agency: NIH/NIA

I.D.# R03 AG064338-01A1

Siva Kumar Panguluri Ph.D., FABAP

Title: "Hyperoxia exposure in an aging model of Type-1 diabetes"

P.I.: Panguluri, Siva. Ph.D.

- Agency: USF COVID-19 Rapid Response Research Proposal

I.D.# RESCV2 #100255

Title: "Detrimental effects of hyperoxia on Covid-19 infected mice model"

P.I.: Panguluri, Siva. Ph.D.

- Agency: USF-TCOP Internal Research (SEED)

Title: "Hyperoxia induced cardiotoxicity in type-I diabetic mice"

P.I.: Panguluri, Siva. Ph.D.

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- Agency: USF New Researcher Grant (NRG)

Title: "Role of Insulin in long-term memory formation of conditional taste aversion learning"

P.I.: Panguluri, Siva. Ph.D.

- Agency: NIH/NIDCD

I.D.# R56DC010171-01A1

Title: "Genomic Mechanisms of Gustatory Palatability"

M. P.I. (Multi-PI): Panguluri, Siva. Ph.D.

## Published Bibliography

\* Indicates Communicating or Senior author

1. Saleem, F., Mansour, H., Vichare, R., Ayalasomayajula, Y., Yassine, J., Hesaraghatta, A., and Panguluri, S.K. (2023) Influence of Age on Hyperoxia-Induced Cardiac Pathophysiology in Type 1 Diabetes Mellitus (T1DM) Mouse Model. *Cells*. 24;12(11):1457. doi: 10.3390/cells12111457. (Impact Factor: 7.66)
2. Vichare, R., Saleem, F., Mansour, H., Bojkovic, K., Cheng, F., Biswal, M. and Panguluri, S.K.\* (2022) Impact of age and sex on hyperoxia-induced cardiovascular pathophysiology. *Mech Ageing Dev*. 2022 Dec;208:111727. doi: 10.1016/j.mad.2022.111727. PMID: 36075315. (Impact factor: 5.5).
3. Bojkovic, K., Rodgers, J.L., Vichare, R., Nandi, A., Mansour, H., Saleem, F., Abidin, Z.U., Vanthenapalli, S., Cheng, F., and Panguluri, S.K.\* (2021) The implications of hyperoxia, type 1 diabetes and sex on cardiovascular physiology in mice. *Sci Rep*. 2021 Nov 29;11(1):23086. doi: 10.1038/s41598-021-02550-2. PMID: 34845324. (Impact factor: 4.57).

4. Rodgers JL, Vanthenapalli S, Panguluri SK\*. (2021) Electrical remodeling and cardiotoxicity precedes structural and functional remodeling of mouse hearts under hyperoxia treatment. *J Cell Physiol.* 2021 Jun; 236(6):4482-4495. doi: 10.1002/jcp.30165. Epub 2020 Nov 23. PMID: 33230829. (Impact factor: 5.546; 7/81 Physiology Journals).
5. Vichare, R., Garner, I., Paulson, R.J., Tzekov, R., Sahiner, N., Panguluri, S.K., Mohapatra, S., Mohapatra, S.S., Ayyala, R., Sneed, K.B., Biswal, M.R. (2020). Biofabrication of Chitosan-Based Nanomedicines and Its Potential Use for Translational Ophthalmic Applications. *Appl. Sci.* 10: 4189. (Journal H-index: 35; Impact Factor: 2.4, Ranking: 85/299 Genetic engineering journals).
6. Garner, I., Vichare, R., Paulson, R., Appavu, R., Panguluri, S.K., Tzekov, R., Sahiner, N., Ayyala, R., Biswal, M.R. (2020). Carbon Dots Fabrication: Ocular Imaging and Therapeutic Potential. *Front Bioeng Biotechnol.* 2020 Sep 25;8:573407. doi: 10.3389/fbioe.2020.573407. eCollection 2020. PMID: 33102456 (Impact Factor: 3.6).
7. Rodgers, J.L., Jones, J., Bolleddu, S.I., Vanthenapalli, S., Rodgers, L.E., Shah, K., Karia, K., and Panguluri, S.K.\* (2019) Cardiovascular Risks Associated with Gender and Aging. *J Cardiovasc Dev Dis.* Apr 27;6(2). pii: E19. doi: 10.3390/jcdd6020019. PMID: 31035613.
8. Rodgers, J.L., Iyer, D., Rodgers, L.E., Vanthenapalli, S., Panguluri, S.K.\* (2019) Impact of hyperoxia on cardiac pathophysiology. *J Cell Physiol.* 234(8): 12595-12603. PMID: 30652312. (Journal H-index: 167; Impact Factor: 5.546, Ranking: 7/81 physiology journals).
9. Rodgers, J.L., Rodgers, L.E., Tian, Z., Allen-Gipson, D., Panguluri, S.K.\* (2019) Sex differences in murine cardiac pathophysiology with hyperoxia exposure. *J Cell Physiol.* 234(2):1491-1501. PMID: 30078191. (Journal H-index: 167; Impact Factor: 5.546, Ranking: 7/81 physiology journals).
10. Saqib, U., Kelley, T.T., Panguluri, S.K., Liu, D., Savai, R., Baig, M.S., Schürer, S.C. (2018) Polypharmacology or Promiscuity? Structural Interactions of Resveratrol With Its Bandwagon of Targets. *Front Pharmacol.* 9:1201. PMID: 30405416. (Journal H-index: 71; Impact Factor: 4.225)
11. Vysotsakaya, Z., Rodgers, J.L., Tang, X., Samal, E., Kolliputti, N., Mohapatra, S., Bennett, E.S. and Panguluri, S.K.\* (2018) Elevated potassium outward currents in hyperoxia treated atrial cardiomyocytes. *J Cellular Physiol* 233(5):4317-4326. PMID: 29139549. (Journal H-index: 167; Impact Factor: 5.546, Ranking: 7/81 physiology journals).
12. Rodgers, J.L., Samal, E., Mohapatra, S. and Panguluri, S.K.\* (2018) Hyperoxia induced cardiotoxicity and ventricular remodelling in type-II diabetes mice. *Heart and Vessels* 33(5):561-572. PMID: 29209776. (Journal H-index: 44; Impact Factor: 1.6, Ranking: 140/322 Cardiology and cardiovascular medicine journals).
13. Kakoti, B.B., Hernandez-Ontiveros, D.G., Kataki, M.S, Shah, K., Pathak, Y., Panguluri, S.K\*. (2015) Resveratrol and Omega-3 Fatty Acid: Its Implications in Cardiovascular Diseases. *Front Cardiovasc Med.* 11: 2:38. doi: 10.3389/fcvm.2015.00038. PMID: 26697434. (Journal H-index: 21).
14. †Chapalamadugu, K.C., †Panguluri, S.K. Bennett, E.S., Kolliputi, N. and Tipparaju, S.M. (2015) High level of oxygen treatment causes cardiotoxicity with arrhythmias and redox modulation. *Toxicol Appl Pharmacol.* 282(1):100-107. † Equal contribution. PMID:

25447406. (Journal H-index: 163; Impact Factor: 3.8, Ranking: 53/256 Pharmacology & Pharmacy journals).
15. Moore, T.R., Hill, A.M. and Panguluri, S.K. (2014) Pharmacogenomics in psychiatry: implications for practice. *Recent Pat Biotechnol.* 8(2):152-159. PMID: 25185985. (Journal H-index: 33).
  16. Panguluri, S.K., Sneed, K.B., Pathak, Y. and Zhou, S. (2014) Editorial: current topics in pharmacogenomics. *Recent Pat Biotechnol.* 8(2):109. PMID: 25185979. (Journal H-index: 33).
  17. Chapalamadugu, K., Panguluri, S.K., Miranda, A., Sneed, K.B. and Tipparaju, S.M. (2014) Pharmacogenomics of cardiovascular complications in diabetes and obesity. *Recent Pat Biotechnol.* 8(2):123-135. PMID: 25185978. (Journal H-index: 33).
  18. Panguluri, S.K., Tur, J., Fukumoto, J., Deng, W., Sneed, K.B., Kolliputi, N., Bennett, E.S. and Tipparaju, S.M. (2013) Hyperoxia induced hypertrophy and ion channel remodeling in left ventricle. *AJP Heart and Circulatory physiology* 304:H1615-H1661. PMID: 23585127. (Journal H-index: 191; Impact Factor: 3.86, Ranking: 13/81 physiology journals).
  19. Panguluri, S.K., Tur, J., Chapalamadugu, K.C., Katnik, C., Cuevas, J. and Tipparaju, S.M. (2013). MicroRNA-301a mediated regulation of Kv4.2 in diabetes: Identification of key modulators. *PLoS One* 8(4): e60545. PMID: 23573265. (Journal H-index: 300; Impact Factor: 2.8).
  20. Panguluri, S.K.\*, Kuwabara, N., Cooper, N., Tipparaju, S.M., Sneed, K.B., and Lundy, R.F. (2013). Gene Network Analysis in Amygdala Following Taste Aversion Learning in Rats. *Neurosci J.* :739764. doi: 10.1155/2013/739764. PMID: 26317099.
  21. Bhatnagar, S., Panguluri, S.K. and Ashok Kumar. (2012) Gene profiling studies in skeletal muscles by quantitative real-time polymerase chain reaction assay. *Methods in Molecular Biology.* 798: 311-324. PMID: 22130845. (Journal H-index: 141; Impact Factor: 10.7).
  22. Panguluri, S.K. and Kakar, S.S. (2012) Using quantitative real-time reverse transcriptase polymerase chain reaction to validate gene regulation by PTTG. *Methods in Molecular Biology,* 815: 131-145. PMID: 22130989. (Journal H-index: 141; Impact Factor: 10.7).
  23. Kumar, S., Kumar, A., Shah, P. P., Rai, S. N., Panguluri, S. K. and Kakar, S. S. (2011) MicroRNA signature of cis-platin resistant vs. cis-platin sensitive ovarian cancer cell line. *J Ovarian Research* 4(1): 17. PMCID: PMC3205057. (Journal H-index: 40; Impact Factor: 2.7).
  24. Panguluri, S.K., Kuwabara, N., Kang, Y., Cooper, N. and Lundy R. F.\* (2011) Conditioned taste aversion dependent regulation of amygdala gene expression. *Physiology and Behavior* 105(4):996-1006. MID: 22119580. (Journal H-index: 153; Impact Factor: 2.9, Ranking).
  25. Saeed, A.A., Hovsepian, H., Darvishzadeh, R., Imtiaz, M., R. Nazaryan, and Panguluri, S.K.\* (2011) Genetic diversity of Iranian accessions, improved lines of chickpea (*Cicer arietinum* L.) and their wild relatives by using Simple Sequence Repeats. *Plant Molecular Biology Reporter* 29: 848-858. (Impact Factor: 1.9).
  26. Pathan, F.K., Ailavarapu, D.V. and Panguluri, S.K.\* (2010). Recent patents on antimicrobial peptides. *Recent Patents on DNA and Gene Sequences* 4: 10-16.
  27. Paul, P.K., Gupta, S.K., Bhatnagar, S., Panguluri, S.K., Darnay, B.G., Choi, Y and Kumar, A. Targeted Ablation of TRAF6 Prevents Atrophy and Promotes Skeletal Muscle

- Regeneration in Mice. (2010) *Journal of Cell Biology* 191(7): 1395-411. PMID: PMC3010064. (Journal H-index: 368; Impact Factor: 9.3, Ranking: 4/305 molecular biology and genetics journals).
28. Bhatnagar, S., Panguluri, S. K., Gupta, S. K., Dahiya, S., Lundy, R.F., and Kumar A. (2010) Tumor necrosis factor- $\alpha$  regulates distinct molecular pathways and gene networks in cultured skeletal muscle cells. *PLoS One* 5(10); e13262. PMID: PMC2953497. (Journal H-index: 300; Impact Factor: 2.8).
  29. Panguluri, S. K., Bhatnagar, S., Kumar, A., McCarthy, J., Srivastava, A. K., Cooper, N. G., Lundy, R. F. and Kumar, A. (2010) Genomic profiling of messenger RNA and microRNAs reveals novel mechanisms of TWEAK-induced skeletal muscle wasting. *PLOS One* 5(1): e8760 PMID: PMC2808241. (Journal H-index: 300; Impact Factor: 2.8).
  30. Panguluri, S., Saggi, S. and Lundy, R.F. (2009). Comparison of somatostatin and corticotrophin releasing hormone immunoreactivity in forebrain neurons projecting to gustatory and non gustatory regions of the parabrachial nucleus in rat. *Brain Research*, 1298, 57-69. PMID: PMC2769563. (Journal H-index: 198; Impact Factor: 3.01).
  31. Panguluri, S. K., Yeakel, C. and S. S. Kakar. (2009) Effect of PTTG on endogenous gene expression in HEK 293 cells. *BMC Genomics* 10: 577. PMID: PMC2793268. (Journal H-index: 153; Impact Factor: 4.3).
  32. Vijay D, Malvika D, Kumar P. A. and Panguluri S. K\*. (2009) Molecular marker analysis of differentially aged seeds of soybean and safflower. *Plant Molecular Biology Reporter* 27 (3): 282-291. (Impact Factor: 1.9).
  33. Pathan, F.K., Deepa, A.V. and Panguluri, S.K.\* (2009). Strategies for patenting in biotechnology. *Current Trends in Biotechnology and Pharmacy* 3: 225-240. (Journal H-index: 11).
  34. Panguluri, S.K. and S.S. Kakar (2008). PTTG: An Important Target Gene for Ovarian Cancer Therapy. *J Ovarian Res.* 2008 Oct 20;1(1):6. doi: 10.1186/1757-2215-1-6. PMID: 19014669. (Journal H-index: 40; Impact Factor: 2.7).
  35. Panguluri, S.K. and S.S. Kakar (2008). Identification of differentially expressed molecular markers for breast cancer diagnosis by cDNA-RAPD. *Current Trends in Biotechnology and Pharmacy* 2: 156-169. (Journal H-index: 11).
  36. Panguluri, S.K., Bing Li, R.E. Hormann and S.R. Palli. (2007) Effect of ecdysone receptor gene switch ligands on endogenous gene expression in 293 cells. *FEBS J* 274: 5669-5689. PMID: 17922837. (Journal H-index: 186; Impact Factor: 4.7).
  37. Panguluri, S.K., Prasanna Kumar and S.R.Palli. (2006) Functional characterization of ecdysone receptor gene switches in mammalian system. *FEBS J* 273: 5550-5563. PMID: 17096690. (Journal H-index: 186; Impact Factor: 4.7).
  38. Srinivasa Rao Linga, Usha Rani papineni, Deshmukh P.S, Ananda Kumar Polumetla and Panguluri, S.K.\* (2006) RAPD and ISSR fingerprinting in cultivated chickpea [*Cicer arietinum* (L.)] and wild species. *Genet. Res. Crop Evol.* 54:1235-1244. (Journal H-index: 62; Impact Factor: 1.4).
  39. Panguluri, S.K., Janaiah, K., Govil, J.N., Kumar, P.A. and Sharma, P.C. \* (2006). AFLP fingerprinting in pigeonpea (*Cajanus cajan* (L.) Millsp.) and its wild relatives. *Genet. Res. Crop Evol.* 53: 523-531. (Journal H-index: 62; Impact Factor: 1.4).
  40. Anderson Paul, Sharma, S. R., Sresty, T. V. S., Suma Baisaria, Kumar, P. S., Parthasaradhi, P., Roger Frutos, Altosaar, I. and Ananda Kumar, P. \* (2005). Transgenic

- cabbage (*Brassica oleracea* var. *capitata*) resistant to Diamondback moth (*Plutella xylostella*). *Ind. J. Biotech.* 4: 72-77. (Journal H-index: 34).
41. Tazo Abraham, Panguluri, S. K., Jagadish, B., Sridhar, J., Mukesh, R. and Kumar, P. A. \* (2005). AFLP fingerprinting of some elite Indian cotton genotypes. *Plant Cell Biol. Mol. Biol* 6: 1-8. (Journal H-index: 8).
  42. Panguluri, S.K., Sridhar, J., Jagadish, B., Sharma, P.C. and Kumar, P.A. (2005). Isolation and Characterization of a Green Tissue-Specific Promoter From Pigeonpea [*Cajanus cajan* (L.) Millsp.]. *Indian J Exp Biol.* 2005 Apr;43(4):369-72. PMID: 15875723. (Journal H-index: 72; Impact Factor: 1).
  43. Bhalla, R., Dalal, M., Panguluri, S.K., Jagadish, B., Mandaokar, A.D., Singh, A.K. and Kumar PA. (2005). Isolation, Characterization and Expression of a Novel Vegetative Insecticidal Protein Gene of *Bacillus Thuringiensis*. *FEMS Microbiol Lett.* 2005 Feb 15;243(2):467-72. doi: 10.1016/j.femsle.2005.01.011. PMID: 15686851. (Journal H-index: 144; Impact Factor: 2).

### Books, Textbooks, Chapters

\* Indicates Communicating or Senior author

1. Siva K. Panguluri\* (2017) Cardiac remodelling under hyperoxic conditions: Hyperoxia and Heart Diseases. Chapter 16 in *Emerging Applications, Perspectives, and Discoveries in Cardiovascular Research* (Ed: Ashim Malhotra and Shivani Soni) IGI Global publications, pages 322-345.
2. Siva K. Panguluri\* and Ashok Kumar Are (Editors) (2013) *Phenotyping for Plant Breeding: application of phenotyping methods for crop improvement*. Springer publications.
3. Saeed, A. and Panguluri, S.K\*. (2013). Chickpea Phenotyping. In: *Phenotyping for Plant Breeding: application of phenotyping methods for crop improvement*. Springer publications. Page: 111-128.
4. Katherine M. Pohlgeers., Panguluri, S.K. and Kakar, S.S. (2008). Implication of Nanoparticles in Diagnosis and Treatment of Cancer: The Future of Oncology. Communicated as chapter (Ed: Dr. Alakananda Basu).
5. Rajani Jaiswal, Kumar, P. S., Abdiin, M. Z. and Ananda Kumar, P.\* (2004). Chapter: 21. Genetic Transformation of Grain Legumes. In; *Plant biotechnology and its applications in tissue culture*. I.K. International Private Ltd. New Delhi.pp:243-283.

### Abstracts

1. Katarina Bojkovic\*\* and Siva K. Panguluri. (2021) Hyperoxia-induced Cardiac Pathophysiology in Type-1 Diabetic Mice Model. \*\*Winner of USF Graduate Student Research Symposium-2021 with Travel award.

2. Zain UI Abidin, Faizan Saleem and Siva K. Panguluri. (2021). Hyperoxia-induced Cardiac Pathophysiology in Guinea Pig Hearts. Presented at USF Research Day 2021.
3. Vanthenapalli, S. and Panguluri, S. K. (2020). Role of sex hormones on hyperoxia-induced cardiac pathophysiology in mice. USF Research Day 2020.
4. Jennifer L. Rodgers, Sahit Vanthenapalli, and Siva Kumar Panguluri (2018). "Hyperoxia-induced cardiac remodelling varies with length of exposure" USF research day poster presentation.
5. Jennifer L. Rodgers, Elspeth Foran, Subhra Mohapatra, and Siva Kumar Panguluri (2018). Hyperoxia-induced cardiac remodeling varies with length of exposure. AHA Scientific Sessions 2018, Chicago, USA.
6. Jennifer L. Rodgers, and Siva Kumar Panguluri (2018). Female mice exhibit worsened cardiac remodelling with 72h hyperoxia following ovariectomy. USF research day poster presentation. (\*\*Got first prize under post-doctoral category).
7. Kalyan C. Chapalamadugu, Siva K. Panguluri, Jared Tur, and Srinivas Tipparaju (2013). Redox regulation in diabetic hearts. Research Day University of South Florida, Tampa, USA. (\* Got best poster award).
8. Jared Tur, Kalyan C. Chapalamadugu, Siva K. Panguluri, Srinivas M. Tipparaju (2013). Role of voltage gated potassium channel subunit Kvb1.1 in cardiac hypertrophy. Research Day University of South Florida, Tampa, USA.
9. Siva K. Panguluri, Jared Tur, and Srinivas M. Tipparaju (2012). Heterogeneous remodelling in diabetic hearts leads to sudden cardiac death. Basic Cardiovascular Sciences (BCVS), Circulation Research 2012, 111: A318
10. Siva K. Panguluri, Yi Kang, Nobuyuki kuwabara, Robert F. Lundy (2010). Central Insulin Signalling Plays a Role in Taste Aversion Learning in Rats. Research Louisville.
11. Panguluri, S.K., and Lundy, R.F. (2009). Altered Gene Expression profiling of Conditional Taste Aversion Learning Rats. Achems, Sarasota, FL, USA.
12. S. K. Panguluri, and R. F. Lundy (2009). Genomic correlates of conditional taste aversion learning in rodent brain. Neural mechanisms of ingestive behavior and Obesity, Chicago, IL, USA.
13. Panguluri, S.K., Waigel, S.J. and Kakar, S.S. (2008). Pituitary Tumor Transforming Gene (PTTG) affects cell proliferation by up-regulating Histone protein family. Bioinformatic Summit08, Cadiz, KY USA.
14. Katherine M. Pohlgeers, Siva K. Panguluri, and Sham S. Kakar (2008). LHRH and Doxorubicin Conjugated Gold Nanotechnology for Ovarian Cancer Treatment. The 1st International World Congress on Reproductive Biology (WCRB) to be held May 24-25, Kailua-Kona, Hawaii.
15. Kakar, S.S., Panguluri, S.K., Malik, M.T. (2007). Role of securin in tumor angiogenesis and metastasis. 12th World Congress on Advances in Oncology and 10th International

Symposium on Molecular Medicine and Cancer Chemoprevention Symposium. October 11-13, Creta Maris Hotel, Hersonissos, Crete, Greece.

16. Siva Kumar Panguluri and Sham S. Kakar (2007). Development and Characterization of breast cancer diagnostic system through cDNA-RAPD: A novel, cost effective, easy and robust technique for early detection. IMD3 symposium 2007, Louisville, USA.

\*Got second prize for best poster.

17. Siva Kumar Panguluri and Subba Reddy Palli (2006). Functional analysis of EcR:RXR heterodimers in mammalian cells. The 2006 ESA Annual Meeting, December 10-13, 2006, Indiana, USA.

18. Linga S. Rao, P. Usha Rani, P. S. Deshmukh, P. A. Kumar and S. K. Panguluri (2005). RAPD and ISSR fingerprinting in cultivated chickpea [*Cicer arietinum* (L.)] and wild species. First International Conference on Crop Wild Relative Conservation and Use, Italy.

19. P. C. Sharma, P. S. Kumar, R. Paruthi, K. Janaiah, J. N. Govil and P. A. Kumar (2004). AFLP and RAPD fingerprinting in Pigeonpea and related species. Legumes for the benefit of Agriculture, Nutrition and the Environment: their genomics, their products and their improvement. Palais Des Congress, Dijon, France. pp-171.

20. P. S. Kumar, P. A. Kumar, K. Janaiah and P. C. Sharma (2003). AFLP fingerprinting to access genetic diversity in pigeonpea (*Cajanus cajan* (L.) Millsp.) and its wild relatives. Seventy third annual sessions on The National Academy of Sciences, India. Pp-15.

21. Ritu paruti, P. S. Kumar, P. A. Kumar and P. C. Sharma (2003). RAPD diversity in pigeonpea (*Cajanus cajan* (L.) Millsp.) and related species. Seventy third annual sessions on The National Academy of Sciences, India. Pp-05.

### **Other Research and Creative Achievements**

- Received Honorary Fellow of Association of Biotechnology and Pharmacy (FABAP) in 2009.

### **Service**

#### **Committee memberships at University/College/Department:**

- TCOP Faculty Council (Member)
- TCOP Academic Review Committee (ARC) (Member)
- TCOP Assessment Committee (Member)
- TCOP Graduate Program Curriculum Committee (Member)
- TCOP Graduate Program Search Committee (Member)
- USF Research Council (Member)
- TCOP Faculty Council (Member)

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- TCOP Academic Review and Professional Student Affairs Committee (ARPSAC) (Member)
- DPS Promotion & Tenure Committee (Member)
- TCOP Research Committee (Chair and Member)
- DPS Environmental and Health Safety (Chair and Member)

International Committee memberships:

Honorary Fellow and Member of Association of Biotechnology and Pharmacy (ABAP)

### **Memberships in Societies:**

- American Physiological Society
- American Heart Association
- American Biographical Society
- Society for Neuroscience
- Society for the study of Ingestive Behavior
- Association for Chemoreception sciences

### **Summary:**

I secured Bachelors and Masters Degree in Biotechnology and did my Ph.D research work in one of the India's premier Institute IARI, New Delhi. Submitted my Ph.D. work in Ch. Ch. Sing University and successfully graduated in 2006. My post-doctoral career started at University of Kentucky in 2005 and continued my research career for 9 years at various positions including Research Associate and Research Instructor. I served as reviewer and editorial board member for many peer-reviewed international journals. More than 5 years' experience in leadership and supervisory roles at both College and University levels. During my service as team leader/supervisor, I have significantly improved my committee activities and performances. Served in many research grant review programs as reviewer both nationally and internationally. Received honorary fellow award and conducted a symposium on geriatric medicine as Chair. Published 38 peer-reviewed research articles in renowned journals (J Cellular Physiology, J Cellular Biology, FEBS J, PLoS One and AJP Heart & Circulatory Physiology) and five book chapters. I have also edited a book and a journal special issue as Editor. Presented research data in many national and international conferences. Also presented my work in international symposium as keynote speaker. Secured multiple NIH research grants (NIH R56, R15 and R03) in addition to three institutional grants. Taught 10 didactic and 3 research-training courses for undergraduate, masters and graduate students as coordinator and/or instructor. Of these courses, I was founding course coordinator for three courses (developing, designing and executing the course), which are being offered to Pharm.D and Master's Program. Pharmacogenomics, one of the four pillars of our College, is one of the course I developed as founding course coordinator (core course for third year Pharm.D students). I have been

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developing leadership and administrative qualities for the past many years by serving as Faculty Council President, Chair of Research Committee at College level and by serving as reviewer for many peer-reviewed international journals and grant agencies. I strongly feel that my broad research interests and expertise I gained during my research career will help in designing and managing projects, policies, and environmental laws in addition to lead the development, refinement, and implementation of health services research portfolios.

My overall h-index is 20, i10-index is 26 and total citations until today is 1544. According to American Association for Clinical Chemistry (AACC) database, on average, associate professors/GS-14 have an h-index of 6-10, and full professors/GS-15 is 12-24. Based on this database, I am sure my credentials exceed average standards for an Associate Professor/GS-14. With these expertise and leadership qualities, I am sure I can be a best fit for this position.