

Salil Sharma

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Education and training

2015-Present **Post-doctoral fellow, Indiana University, Bloomington, IN**
Jan'2012-Feb 2015 **Post-doctoral fellow, University of California Los Angeles, CA**
2006-Dec'2011 **University of Miami, Miller School of Medicine Miami, FL**
Ph.D. in Molecular and Cellular Pharmacology
2003-2006 **Research Scientist, Johns Hopkins University, MD and the Institute of Bioinformatics, Bangalore, India.**
2001-2003 **Bangalore University**
Bangalore, India
M.Sc. in Biotechnology
1998-2001 **GGM Science College Jammu, India**
B.Sc. in Botany, Zoology, Chemistry
1999-2001 **DNIT- diploma program in computer application, Jammu, India**
Core IT skills, Business applications, GUI, Networking & Desktop support, Web Application Development

Fellowship Support:

1. Recipient of the Greater Southeast Affiliate Predoctoral fellowship award with the highest percentile score (1.2067). American Heart Association (2008-2010).
2. Recipient of the Western State Affiliate Postdoctoral Fellowship Award with the percentile score (1.28). American Heart Association (2013-2015).

Professional Experience

2015- Present: Indiana University Bloomington, Bloomington, IN 2015-Pres
Post doctoral Researcher Department of Psychological and Brain Sciences
Collaborates with Stark Neurosciences Research Institute (SNRI) on human studies for the detection of plasma biomarkers for neurodegenerative diseases for effective clinical trials and therapeutic interventions.

2012- 2015: University of California Los Angeles, Post doctoral Research Scientist, Expert in microRNA regulation in cardiovascular disease and pulmonary hypertension.

- Discovered microRNA miR193-5p that acts as a downstream effector in the rescue action of apo lipoprotein mimetic peptide 4F in advanced pulmonary hypertension.
- Discovered microRNAs that are involved in the estrogen mediated rescue of advanced heart failure, analyzed data and conceptualized experiments to elucidate the potential involvement of microRNAs in the beneficial effect of estrogen.

- Received the 2013 Western State Affiliate Winter Postdoctoral Fellowship Award for a period of two years (2013-2015) to support my research titled “Estrogen inhibits cardiac fibrosis by the induction of miR129-5p”. The proposal received a very high score of 1.28.
- Discovered microRNAs that are involved in the rescue of pulmonary hypertension mediated by apolipoprotein mimetic peptide. Have filed a patent for the intellectual property rights on the beneficial effect of microRNA miR193 on pulmonary hypertension through UCLA, which is currently pending.
- Contributed intellectually and experimentally in many projects to discover the underlying mechanism by which intralipid, a lipid emulsion is effective in resuscitation from cardiac arrest. In addition, studying in-depth the role of microRNAs in the molecular mechanisms underlying the high vulnerability of late pregnant hearts to ischemia/reperfusion injury.
- Extensively employed rodent models of pressure overload, fibrosis and pulmonary hypertension to assess the therapeutic benefits of potential microRNAs. Developed in vivo and in vitro biochemical assays (gain and loss of function studies with lentivirus and cholesterol conjugated mimics and antagomirs/luciferase reporter assays) to characterize in vivo function of microRNAs, echocardiography and direct catheterization to assess functional parameters and confocal microscopy for localization studies.
- Awarded Young Investigator Travel Award at the Basic Cardiovascular Science 2013 Scientific Conference on the role of miR193 in pulmonary hypertension. This award recognizes the originality, high quality and impact of the work presented.
- Was a coauthor on the article titled “Intralipid Fails to Rescue Bupivacaine-Induced Cardiotoxicity In the Presence Of the Opioid Antagonist Naloxone” that received the Investigator Award at the American Heart Association Resuscitation Science Symposium in November 2012.

2006-2011 University of Miami, Graduate Research Assistant Miami, FL

- Discovered novel microRNAs including miR17~92 and miR142 as downstream effectors/modulators of the coactivator protein p300 involved in cardiac hypertrophy, angiogenesis and inflammatory response. Studied the in-depth mechanistic role of these microRNAs in different mouse models of cardiac hypertrophy and heart failure.
- Won the prestigious American Heart Association fellowship (2008-2010) for my outstanding research proposal titled “Regulation of Angiogenesis by microRNA during Hypertrophy”. This proposal also received the Greater Southeast Affiliate Research Committee Recognition Predoctoral award for the highest percentile score (1.2067) by the American Heart Association.
- Patented cardiovascular research findings titled “Compositions, kits and methods for treatment of cardiovascular, immunological, and inflammatory diseases”. *Patent number: 9248144. Inventors: Salil Sharma, Jing Liu, Nanette Bishopric.*
- Made substantial contributions to several award-winning research articles.
- Trained many graduate students to formulate hypothesis and collaborated on projects that led to many publications.
- Presented posters and oral talks at many reputed national conferences including the American Heart Association.

2003-2006 Research Scientist at the Johns Hopkins University, USA and the Institute of Bioinformatics, Bangalore, India.

- Obtained very conclusive experimental evidence for the existence of novel genes on the human X chromosome and confirmed the existence of some of the newly identified genes. Research was published in Nature Genetics.
- Employed interaction data derived from the biomedical literature to develop a comprehensive map of protein interactions in humans and designed key experiments to prove binding of proteins pairs. Research was published in Nature Genetics.
- Contributed to the manual curation of scientific information pertaining to the biology of most human proteins. This led to the development of the publically available repository, the Human Protein Reference Database (HPRD).
- Contributed to the development of the comprehensive resource for all human plasma proteins and includes information pertaining to specific expression, disease, localization, post translational modification and single nucleotide polymorphism. This led to the development of the publically available repository, Plasma Proteome Database (PPD).

Publications

1. Andrea Iorga, Jingyuan Li, **Salil Sharma**, Soban Umar, Jean C. Bopassa, Rangarajan D. Nadadur, Alexander Centala, Shuxun Ren, Tomoaki Saito, Ligia Toro, Yibin Wang, Enrico Stefani, Mansoureh Eghbali (2016). Rescue of Pressure Overload-Induced Heart Failure by Estrogen Therapy. **Journal of American Heart Association (JAHA)**. PMID: 26802104.
2. **Salil Sharma**, Soban Umar, Alexander Centala and Mansoureh Eghbali (2015). Role of miR206 in Genistein-Induced Rescue of Pulmonary Hypertension in Monocrotaline Model. **J Appl Physiol**. PMID: 26472874
3. Partownavid P, **Sharma S**, Li J, Umar S, Rahman S, Eghbali M (2015). Involvement of Opioid Receptors in the Lipid Rescue of Bupivacaine-Induced Cardiotoxicity. **Anesthesia & Analgesia**. PMID: 25993392
4. **S Sharma** , S Umar, F Potus, A Iorga, G Wong, D Meriwether, S Breuils-Bonnet, D Mai, K Navab, D Ross, M Navab, S Provencher, AM Fogelman, S Bonnet, ST Reddy, M Eghbali. (2014). ApoA-I Mimetic Peptide 4F Rescues Pulmonary Hypertension by Inducing MicroRNA-193-3p. **Circulation**. PMID: 24963038.
5. **S. Sharma**, M. Eghbali. Influence of sex differences on microRNA gene regulation in disease. (2014). **Biology of Sex Differences**. PMID: 24484532
6. L. A. Shehadeh*, **S. Sharma***, M. Pessanha, J. Wei, , J. Liu, C. O. Rodrigues, H. Yuan, M. Scherr, R. Duerr, N. F. Tsinoremas, and N. H. Bishopric. (2013) MicroRNA-20a constrains p300-driven myocardial angiogenic transcription by direct targeting of p300. **PlosOne**. PMID:24236097. * Co-first authors.
7. J. Li, S. Umar, M. Amjadi, A. Iorga, S. Sharma, RD Nadadur, V . Regitz-Zagrosek, M. Eghbali. (2012). New frontiers in heart hypertrophy during pregnancy. *Am J Cardiovasc Dis*. PMID: 22937489
8. Matori, S. Umar, R. D. Nadadur, **S. Sharma**, R. P. Navid, M. Afkhami, M. Amjadi, M. Eghbali. (2012). Genistein, a Soy Phytoestrogen, Reverses Severe Pulmonary Hypertension and Prevents Right Heart Failure in Rats. **Hypertension**. PMID:22753213
9. J. Li, A. Iorga, **S. Sharma**, J. Youn, R. P. Navid, S. Umar, H. Cai, S. Rahman and M. Eghbali. (2012). Intralipid, a Clinically Safe Compound, Protects the Heart Against Ischemia Reperfusion Injury More Efficiently Than Cyclosporine-A. **Anesthesiology**. PMID: 22814384
10. **S. Sharma**, J. Liu, J. Wei, H. Yuan, T. Zhang and N. H. Bishopric. (2012). Repression of miR-142 by p300 and MAPK is required for survival signaling via gp130 during adaptive hypertrophy. **EMBO Molecular Medicine**. PMID:22367739.
11. G. R. Mishra, M. Suresh, K. Kumaran, N. Kannabiran, S. Suresh, P. Bala, K. Shivakumar, N. Anuradha, R. Reddy, T. M. Raghavan, S. Menon, G. Hanumanthu, M. Gupta, S. Upendran, S. Gupta, M. Mahesh, B. Jacob, P. Mathew, P. Chatterjee, K. S. Arun, **S. Sharma**, K. N. Chandrika, N. Deshpande, K. Palvankar, R. Raghavath, R. Krishnakanth, H. Karathia, B. Rekha, R. Nayak, G. Vishnupriya, H. G. M. Kumar, M. Nagini, G. S. S. Kumar, R. Jose, P. Deepthi, S. S. Mohan, T. K. B. Gandhi, H. C. Harsha, K. S.

Deshpande, M. Sarker, T. S. K. Prasad, A. Pandey. (2006). Human protein reference database--2006 update. **Nucleic Acids Res.** 1;34:D411-4. PMID:16381900.

12. T. K. B. Gandhi, J. Zhong, S. Mathivanan, L. Karthick, K. N. Chandrika, S. S. Mohan, **S. Sharma**, S. Pinkert, S. Nagaraju, B. Periaswamy, G. Mishra, K. Nandakumar, B. Shen, N. Deshpande, R. Nayak, M. Sarker, J. D. Boeke, G. Parmigiani, J. Schultz, J. S. Bader, A. Pandey. (2006). Analysis of the human protein interactome and comparison with yeast, worm and fly interaction datasets. **Nature Genetics.** 38(3):285-93. PMID:16501559.

13. H. C. Harsha, S. Suresh, R. Amanchy, N. Deshpande, K. Shanker, A. J. Yatish, B. Muthusamy, B. M. Vrushabendra, B. P. Rashmi, K. N. Chandrika, N. Padma, **S. Sharma**, J. L. Badano, M. A. Ramya, H. N. Shivashankar, S. Peri, D. R. Choudhury, M. P. Kavitha, R. Saravana, V. Niranjana, T. K. B. Gandhi, N. Ghosh, S. Chandran, M. Menezes, M. Joy, S. S. Mohan, N. Katsanis, K. S. Deshpande, C. Raghothama, C. K. Prasad, A. Pandey. (2005). A manually curated functional annotation of the human X chromosome. **Nature Genetics.** 37(4):331-2. PMID:15800640

14. B. Muthusamy, G. Hanumanthu, S. Suresh, B. Rekha, D. Srinivas, L. Karthick, B. M. Vrushabendra, **S. Sharma**, G. Mishra, P. Chatterjee, K. S. Mangala, H. N. Shivashankar, K. N. Chandrika, N. Deshpande, M. Suresh, N. Kannabiran, V. Niranjana, A. Nalli, T. S. K. Prasad, K. S. Arun, R. Reddy, S. Chandran, T. Jadhav, D. Julie, M. Mahesh, S. L. John, K. Palvankar, D. Sudhir, P. Bala, N. S. Rashmi, G. Vishnupriya, K. Dhar, S. Reshma, R. Chaerkady, T. K. B. Gandhi, H. C. Harsha, S. S. Mohan, K. S. Deshpande, M. Sarker, A. Pandey. (2005). Plasma Proteome Database as a resource for proteomics research. **Proteomics.** 5(13):3531-6. PMID: 16041672

Abstract presentations in Scientific Meetings

1. **Salil Sharma**, Jingyuan Li, , Alex Centala, Victor Grijalva, Srinivas T. Reddy, Mansoureh Eghbali. MiR193-3p Promotes Inflammation in Pulmonary Hypertension by Targeting IL-17RD (2015). **ASA**. Abstract Presentation number: A1274.
2. Soban Umar, **Salil Sharma**, Alex Centala, Mariam Barseghyan, Mansoureh Eghbali. MicroRNA miR 125b-3p is Upregulated in the Novel Model of Combined Pulmonary Fibrosis and Pulmonary Hypertension in Rats (2015). **ASA**. Abstract Presentation number: A2271.
3. **Soban Umar**, Alex Centala, Mariam Barseghyan, Salil Sharma, Parisa Partownavid, Mansoureh Eghbali. Inhibition of Free Fatty Acid Receptor GPR40 Prevents Rescue of Bupivacaine-Induced Cardiotoxicity by Intralipid (2015). **ASA**. Abstract Presentation number: A3056.
4. **S. Sharma**, Ph.D., A. Centala, BS, V. Victor Grijalva, BS, S.T. Reddy, Ph.D., M. Eghbali, PhD. Downregulation of miR193-3p in Pulmonary Hypertension is Associated with Inflammation via Its Target IL17RD. **American Thoracic Society International Conference. Am J Respir Crit Care Med 191;2015:A1994.**
5. S. Umar, MD, PhD, **S. Sharma**, Ph.D., A. Centala, BS, M. Barseghyan, B.S., B.A., M. Eghbali, PhD. Upregulation of MicroRNA miR 125b-3p in the Novel Combined Pulmonary Fibrosis and Pulmonary Hypertension Model in Rats. American Thoracic Society International Conference. **Am J Respir Crit Care Med 191;2015:A3458.**
6. S. Umar, MD, PhD, A. Centala, B.S., M. Barseghyan, B.S., B.A., A. Iorga, B.Sc, **S. Sharma**, Ph.D., J. Li, M.D., Ph.D., M. Ruiz-Sundstrom, PhD, A.P. Arnold, Ph.D., M. Eghbali, PhD. Y Chromosome Plays a Protective Role Against Hypoxia-Induced Pulmonary Hypertension in Gonadectomized Mice. **American Thoracic Society International Conference. Am J Respir Crit Care Med 191;2015:A4100.**

7. Andrea Iorga, Jingyuan Li, **Salil Sharma**, Soban Umar and Mansoureh Eghbali. Estrogen rescues advanced heart failure in mice. **Organization for the Study of Sex Difference. Ninth Annual Meeting. April 21-23, 2015. Stanford, CA.**
8. Soban Umar, M.D., Ph.D., **Salil Sharma**, Ph.D, Humann Matori, B.Sc, Alex Centala, B.Sc, Mansoureh Eghbali, Ph.D. Genistein, a Phytoestrogen, for the Treatment of Pulmonary Arterial Hypertension and Right Ventricular Failure. **Organization for the Study of Sex Difference. Ninth Annual Meeting. April 21-23, 2015. Stanford, CA.**
9. **Salil Sharma**, Francois Potus, Soban Umar, Sandra Breuils-Bonnet, Steeve Provencher, Srinivasa T Reddy, Sébastien Bonnet, Mansoureh Eghbali. MiR-193-3p is Regulated by 4F via Retinoid X Receptor Alpha (RXR- α) and Its Gain Attenuates Proliferation of Pulmonary Artery Smooth Muscle Cells From Pulmonary Arterial Hypertension Patients (2014). **Circulation. 130: A13579.**
10. Soban Umar, Alex Centala, Andrea Iorga, **Salil Sharma**, Arthur P Arnold, Mansoureh Eghbali. Mice With XX Chromosomes Develop More Severe Hypoxia-Induced Pulmonary Hypertension Than With XY Chromosomes Regardless of Their Gonadal Sex (2014). **Circulation. 130:A15938**
11. Parisa Partownavid, **Salil Sharma**, Siamak Rahman, Mansoureh Eghbali. 5-Hydroxydecanoate, a Mitochondrial Selective KATP Antagonist, Blocks the Rescue Action of Lipid Emulsion in Bupivacaine-Induced Cardiotoxicity (2014). **Circulation. 130:A287**
12. **Salil Sharma**, Alex Centala, Andrea Iorga, Mansoureh Eghbali. Severe Pulmonary Hypertension in MCT-Rat Model Is Rescued by the Soy Phytoestrogen, Genestein via Downregulation of MicroRNA miR-206 (2014). **ASA. Abstract Presentation number: A2031. Oral Presentation.**
13. **Salil Sharma**, Francois Potus, Soban Umar, Steeve Provencher, Sébastien Bonnet, Mansoureh Eghbali. Pulmonary Hypertension Is Associated with Downregulation of miR-193 and Gain of miR-193 Function Decreases Proliferation of Pulmonary Smooth Muscle Cells from PAH Patients (2014). **ASA. Abstract Presentation number: A2029. Oral Presentation.**
14. **Salil Sharma**, Soban Umar, Andrea Iorga, Ali Said, Jingyaun Li, Srinivasa Reddy, Mansoureh Eghbali. Oxidized Lipid Treatment Induces Pulmonary Hypertension in Mice via Suppression of MicroRNA miR-193 (2014). **ASA. Abstract Presentation number: A2033. Oral Presentation.**
15. **Salil Sharma**, Mohamad Navab, Srinivasa Reddy, Mansoureh Eghbali. 4F Rescues Pulmonary Hypertension by Inducing miR-193 via Suppression of Transcription Factor RXR-alpha (2014). **ASA. Abstract Presentation number: A2068. Poster Discussion.**
16. **Salil Sharma**, Andrea Iorga, Alex Centala, Jingyaun Li, Mansoureh Eghbali. MicroRNA miR-129 Reverses Cardiac Fibrosis in Angiotensin-II-Infused Mice (2014). **ASA. Abstract Presentation number: A3287. Poster Presentation.**
17. Parisa Partownavid, **Salil Sharma**, Siamak Rahman, Mansoureh Eghbali. The Rescue Effect of Lipid Emulsion in Bupivacaine-induced Cardiotoxicity Is Blocked by 5-Hydroxydecanoate, a Mitochondrial Selective KATP Antagonist (2014). **ASA. Abstract Presentation number. A4005. Oral Presentation.**
18. Jingyuan Li, **Salil Sharma**, Mansoureh Eghbali. MiR-98 Regulates Apoptosis in Cardiomyocytes via PGC-1 α and STAT3 (2014). **ASA. Abstract Presentation number: A1000. Oral Presentation.**

19. Soban Umar, Alex Centala, Andrea Iorga, **Salil Sharma**, Rajeev Saggur, Rajan Saggur, Mansoureh Eghbali. A Novel Pre-Clinical Combined Pulmonary Fibrosis and Pulmonary Hypertension Model in Rats (2014).**ASA**. Abstract Presentation number: A3280. **Poster Presentation**.
20. Soban Umar, Alex Centala, Andrea Iorga, **Salil Sharma**, Jingyuan Li, Arthur P. Arnold, Mansoureh Eghbali. XX Mice Are More Prone to Develop Hypoxia-Induced Pulmonary Hypertension Than XY Mice Regardless of Their Gonadal Sex (2014). **ASA**. Abstract Presentation number. A4115. **Poster Presentation**.
21. **Salil Sharma**, Mohamad Navab, Srinivasa T Reddy, Mansoureh Eghbali. MicroRNA-193-3p Rescues Pulmonary Hypertension By Inhibiting Lipoxygenases. (2014). **American Thoracic Society International Conference. Am J Respir Crit Care Med 189;2014:A3353**.
22. **Salil Sharma**, Alex Centala, Andrea Iorga, Humann Matori, Mansoureh Eghbali. Genistein, A Soy Phytoestrogen, Rescues Severe Pulmonary Hypertension By Downregulating MicroRNA MiR-206 In MCT-Rat Model.(2014). **American Thoracic Society International Conference. Am J Respir Crit Care Med 189;2014:A3308** .
23. Soban Umar , Alex Centala , Jennifer Hwang , Andrea Iorga , **Salil Sharma**, Rajan Saggur , Mansoureh Eghbali. A Novel Combined Pulmonary Fibrosis And Pulmonary Hypertension Model In Rats (2014). **American Thoracic Society International Conference. Am J Respir Crit Care Med 189;2014:A3323**.
24. Soban Umar, Alex Centala , Andrea Iorga , **Salil Sharma** , Jing Li , M. Ruiz-Sundstrom , Arthur P. Arnold , Mansoureh Eghbali. XX Mice Are More Prone To Develop Hypoxia-Induced Pulmonary Hypertension Than XY Mice Regardless Of Their Gonadal Sex (2014). **American Thoracic Society International Conference. Am J Respir Crit Care Med 189;2014:A3352**.
25. Jingyuan Li, **Salil Sharma**, Mansoureh Eghbali . Implication Of Mir-98 In The Cardiac Vulnerability Of Pregnancy To Ischemia Reperfusion Injury (2014). **Basic Cardiovascular Sciences 2013 Scientific Sessions**. Abstract number # 342.
26. **Salil Sharma**, Gabe Wong, Soban Umar, David Meriwether, Mohamad Navab, Srinivasa T Reddy, and Mansoureh Eghbali. Apolipoprotein A-I Mimetic Peptide, 4F Targets Lipoxygenases via miR193-3p Induction to Rescue Severe Pulmonary Hypertension. (2013). **Circulation**. 2013;128:A18260.
27. Parisa Partownavid; **Salil Sharma**; Siamak Rahman; Mansoureh Eghbali .Intralipid Rescue of Bupivacaine-Induced Cardiotoxicity in Rats is Abolished by Glibenclamide, an ATP Potassium Channel Blocker (2013). **Circulation**. 128: A159
28. Gabriel Wong, Andrea Iorga, David Meriwether, Jingyuan Li, **Salil Sharma**, Srinivasa Reddy, and Mansoureh Eghbali. The Lipoxygenase Inhibitor Nordihydroguaiaretic Acid (NDGA) Prevents the Progression of Pulmonary Hypertension. (2013). **Circulation**. 128:A15622
29. **Salil Sharma**, Andrea Iorga, Harnek Singh, Jingyaun Li, Mansoureh Eghbali. Estrogen Rescues Advance Heart Failure Via miR129 Induction and Suppression of Cardiac Fibrosis Associated Genes. (2013). **ASA**. Abstract Presentation number: A5000. **Accepted for oral presentation**.
30. **Salil Sharma**, Gabe Wong, Mohamad Navab, Srinivasa Reddy, Mansoureh Eghbali. Induction of MicroRNA 193-3p by 4F Rescues Pre-existing Pulmonary Hypertension in Hypoxic Mice by Suppressing ALOX5 Lipoxygenase. (2013). **ASA**. Abstract Presentation number: **A3130**.
31. Andrea Iorga, Gabriel Wong, **Salil Sharma**, Harnek Singh, Mansoureh Eghbali. The Lipoxygenase Inhibitor Nordihydroguaiaretic Acid Prevents Human Pulmonary Artery Smooth

- Muscle Cell Proliferation Induced by Oxidized Fatty Acids. (2013). **ASA**. Abstract Presentation number: **A3132**.
32. Jingyuan Li, **Salil Sharma**, Andrea Iorga, Mansour Eghbali, Mansoureh Eghbali. MiR-98 Plays a Regulatory Role in the Cardiac Vulnerability of Pregnancy to Ischemia Reperfusion Injury. (2013). **ASA**. Abstract Presentation number: **A3170**.
 33. Siamak Rahman, Parisa Partownavid, **Salil Sharma**, Mansoureh Eghbali, Nicholas Amelin. Inhibition of Fatty Acid Oxidation By CVt-4325 Has No Effect on Intralipid Rescue of Bupivacaine-Induced Neurotoxicity. (2013). **ASA**. Abstract Presentation number: **A1321**.
 34. Nicholas S. Ameln, **Salil Sharma**, Parisa Partownavid, Mansoureh Eghbali, Siamak Rahman. Lidocaine Does Not Reverse Seizure Activity in Bupivacaine-Induced Neurotoxicity. (2013). **ASA**. Abstract Presentation number: **A3191**.
 35. Andrea Iorga, Jingyuan Li, **Salil Sharma**, Marjan Amjadi, Mansoureh Eghbali. Myocardial Ischemia/Reperfusion Injury in Late Pregnancy Regulates Several MicroRNAs Involved in Inflammation and Apoptosis. (2013). **ASA**. Abstract Presentation number: **A2137**.
 36. Parisa Partownavid, **Salil Sharma**, Siamak Rahman, Mansoureh Eghbali. Glibenclamide, an ATP Potassium Channel Blocker, Abolishes Lipid Rescue of Bupivacaine-Induced Cardiotoxicity. (2013). **ASA**. Abstract Presentation number: **A4277**.
 37. **Salil Sharma**, Andrea Iorga, Harnek Singh, Jingyuan Li, Mansoureh Eghbali. Estrogen Plays a Protective Role in Advanced Heart Failure by Suppressing Cardiac Fibrosis Associated Genes via miR129 Induction. (2013). **Basic Cardiovascular Sciences 2013 Scientific Sessions**. Published in *Circ Res*. 2013; 113: A304.
 38. **Salil Sharma**, Soban Umar, Gabe Wong, Denise Mai, Mohamad Navab, Srinu Reddy, Mansoureh Eghbali. HDL Mimetic Peptide 4F Rescues Pre-existing Pulmonary Hypertension via MicroRNA 193-3p. **Basic Cardiovascular Sciences 2013 Scientific Sessions**. Published in *Circ Res*. 2013; 113: A303.
 39. Andrea Iorga, Gabriel Wong, Denise Mai, Jingyuan Li, **Salil Sharma** and Mansoureh Eghbali. The Lipoxigenase Inhibitor Nordihydroguaiaretic Acid Prevents the Development of Hypoxia-Induced Pulmonary Hypertension in Mice.(2013). **Basic Cardiovascular Sciences 2013 Scientific Sessions**. Published in *Circ Res*. 2013; 113: A064.
 40. **Salil Sharma**, Jennifer Hwang, Gabe Wong, Andrea Iorga, Soban Umar, K. Navab, M. Navab, Mansoureh Eghbali. Apolipoprotein-A1 Mimetic Peptide 4F Rescues Pre-Existing Severe Pulmonary Hypertension And Right Ventricular Dysfunction By Inducing MicroRNA 193-3p. (2013). **Accepted for oral presentation. American Thoracic Society International Conference. Am J Respir Crit Care Med** 187;2013:A2096
 41. Andrea Iorga, Gabe Wong, Jing Li, **Salil Sharma**, S. Reddy, Mansoureh Eghbali. Inhibition of Oxidized Lipid Production Prevents the Development of Hypoxia-Induced Pulmonary Hypertension and Smooth Muscle Cell Proliferation (2013). **American Thoracic Society International Conference. Am J Respir Crit Care Med** 187;2013:A1753
 42. **Salil Sharma**, Andrea Iorga, Rangarajan D. Nadadur, Mansoureh Eghbali. Estrogen Plays a Protective Role in Advanced Heart Failure by Regulating Target Genes of miR-129-5p Suppressing Cardiac Fibrosis (2012). **Accepted for oral presentation.Circulation**.126: A18603
 43. Partownavid P., Soban Umar, Siamak Rahman, **Salil Sharma** & Mansoureh Eghbali. (2012). Intralipid Fails to Rescue Bupivacaine-Induced Cardiotoxicity in the Presence of the Opioid Antagonist Naloxone (2012). **AHA Resuscitation Science Symposium. Circulation**.126: A220
 44. **Salil Sharma**, Andrea Iorga, Rangarajan D. Nadadur and Mansoureh Eghbali. (2012). Estrogen plays a protective role in advanced heart failure by regulating multiple microRNAs associated with fibrosis. (2012). **ASA**. Abstract Presentation number: **A080**. **Accepted for oral presentation**.
 45. Soban Umar, Rangarajan D. Nadadur, **Salil Sharma**, Michelle Afkhami, Mansoureh Eghbali, Ph.D. In Vivo and In Vitro Reversal of Pulmonary Vascular Remodeling

Associated With Severe Hypertension by Intralipid.(2012). **ASA**. Abstract Presentation number: **A079 Accepted for oral presentation.**

46. Andrea Iorga, Rangarajan Nadadur, **Salil Sharma**, Jingyuan Li and Mansoureh Eghbali.(2012) Short-Term Estrogen Treatment of Advanced Heart Failure Reverses Cardiac Fibrosis and Inflammation. (2012).**ASA**. Abstract Presentation number: **A456. Accepted for poster presentation.**
47. Andrea Iorga, Rangarajan Nadadur, **Salil Sharma**, Jingyuan Li and Mansoureh Eghbali.(2012) Cardiac Inflammation and Fibrosis Induced by Heart Failure Are Reversed by Short-Duration Estrogen Therapy. **BCVS Scientific Sessions**. Abstract Presentation number 285. **Circulation Research**. 2012;111:A285
48. **Salil Sharma**, Jing Liu, Jianqin Wei, Nanette H. Bishopric. (2011) MicroRNA 142-5p Targets Myocardial Hypertrophy and Cytokine Response. **Circulation**. 124: A16798
49. Lina A. Shehadeh, **Salil Sharma**, JianQin Wei, Monica Pessanha, Claudia Rodrigues, Huijun Yuan, Michaela Scherr, Robert Duerr, Jing Liu, Nicholas Tsinoremas, Nanette Bishopric. (2011). MicroRNA-20a Restores Cardiac Function in p300 Hypertrophic Hearts by Targeting p300 and p300-driven Angiogenic Program in Cardiac Myocytes and Cardiac Progenitor Cells. **J. Am. Coll. Cardiol.**57;E2047.
50. **Salil Sharma**, Huijun Yuan, Jianqin Wei, Nanette H Bishopric. (2010) p300 Regulates Cardiac Myocyte Growth through MIR374-5p and MIR142-5p. **Circulation**.122:A18465.
51. Lina A Shehadeh; **Salil Sharma**; JianQin Wei; Monica Pessanha; Claudia O Rodrigues; Huijun Yuan; Robert Duerr; Michaela Scherr; Keith Webster; Nicholas Tsinoremas; Nanette Bishopric. (2010). A MicroRNA-20a - p300 Circuit in Cardiac Myocytes and Cardiac Stem Cells Regulates Compensatory Angiogenesis during Cardiac Hypertrophy. **Circulation**. 122:A13758.
52. Huijun Yuan, Sukanya Sil, **Salil Sharma** and Nanette Bishopric. (2010) Loss of p300 Reduces miR-let-7c and Enhances ER-positive Breast Cancer Cell Tumorigenicity. Proceedings of the 101st Annual Meeting of the **American Association for Cancer Research**. Abstract number # 4882.
53. Lina Shehadeh; **Salil Sharma**; JianQin Wei; Mônica Pessanha; Claudia Rodrigues; Huijun Yuan; Michaela Scherr; Keith Webster; Nicholas Tsinoremas and Nanette Bishopric. (2009) Regulation of Compensatory Angiogenesis During Cardiac Hypertrophy by a p300 - miR-17~92 Feedback Loop. **Circulation**. 120:S583.
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Techniques

- **Molecular and biochemical techniques**—cloning, site directed mutagenesis, northern blotting, western blotting, qRT-PCR, , siRNA-mediated gene knockdown, lentivirus and adenovirus mediated gene/microRNA overexpression and knockdown, gel mobility shift, luciferase reporter assays, , in vitro binding and co-immunoprecipitation, stable transfections and transduction into multiple cell lines, cell and tissue sectioning/staining and confocal microscopy.
- **In Vivo Skills:** Surgeries including neonatal mouse pup jugular vein injections, intratracheal intubation and instillation of drugs and oligonucleotides, direct catheterization for cardiac pressure measurements in rodents, tail vein and femoral vein injections, short axis and long axis echocardiography, surgeries including subcutaneous implantation of osmotic mini-pumps, electrophysiology, in-utero electroporation.

Extracurricular activities: Swimming, reading books on diverse subjects and networking.

Immigration Status: Authorized to work in the US (Permanent Resident/Green card holder).

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