

Curriculum Vitae - Ashutosh A. Dharap, Ph.D.

Department of Molecular Medicine
Byrd Alzheimer's Center and Research Institute
Morsani College of Medicine
University of South Florida
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Education

- 2011 Ph.D. in Neuroscience, University of Wisconsin, Madison, WI
- 2006 M.Sc. in Zoology (Molecular Biology Elective), University of Pune, India
- 2004 B.Sc. in Zoology (with Honors), Fergusson College, University of Pune, India

Positions

- 09/2021-current **Assistant Professor (tenure-track)**, Department of Molecular Medicine, Morsani College of Medicine, University of South Florida, Tampa, FL 33613
Primary Investigator, Neuroscience Institute/Byrd Alzheimer's Center, Morsani College of Medicine, University of South Florida, Tampa, FL 33613
- 02/2016-08/2021 Assistant Professor (primary appointment), JFK Neuroscience Institute, Hackensack Meridian Health JFK Medical Center, NJ.
Assistant Professor (secondary appointment, 06/2018-08/2021), Department of Neurology, Hackensack Meridian School of Medicine, NJ.
- 02/2013-02/2016 Postdoctoral Research Associate, Theoretical Biology and Biophysics (T-6), Los Alamos National Laboratory, Los Alamos, NM.
- 09/2011-02/2013 Postdoctoral Research Associate, Department of Neurological Surgery, University of Wisconsin-Madison, WI, USA.
- 07/2009-07/2011 American Heart Association Pre-Doctoral Fellow, Department of Neurosurgery, University of Wisconsin-Madison, WI, USA.
- 08/2006-07/2009 Graduate Research Assistant, Department of Neurosurgery, University of Wisconsin-Madison, WI, USA.

Awards & Honors

- 2017 Abstract selected for the Society for Neuroscience Hot Topics book at the 2017 Annual Meeting
- 2010 UW-Madison Vilas Travel Award
- 2009 American Heart Association Pre-Doctoral Fellowship
- 2004 B.Sc. in Zoology with Honors (First Class with Distinction)

Grant Awards

Active

1. 1R03AG084918 09/2024 – 06/2026
Role: PI
NIH/NIA
"Enhancer RNAs and enhancer-centric gene regulatory networks in vascular dementia".
Total Costs: \$300,000
2. 2I01 BX004626 10/2024 – 09/2028
Role: Collaborator, 8% FTE (PI: Blair)
Veterans Health Administration
"Controlling FKBP51 for the treatment of PTSD".
Direct Costs: \$165,000/year

Pending

3. NINDS/NIH R21
Role: PI
"A novel Tenascin-C isoform in cerebral ischemia".
Score: Pending study section review
Total Costs: \$412,500
4. NINDS/NIH R21
Role: PI
"A human cerebral organoid model of ischemia-reoxygenation injury".
Score: Pending study section review
Total Costs: \$412,500
5. NINDS/NIH R01
Role: PI
"Understanding the roles of SINE-RNAs in the post-ischemic brain".
Score: Pending study section review
Total Costs: \$2,791,371

Completed

1. 1R01NS115835 09/2020 – 08/2025
Role: PI
NIH/NINDS
"Functional characterization of an enhancer RNA in cerebral ischemia".
Total Costs: \$1,868,750
1. 09PRE2300220 (Role: PI) 07/2009 – 07/2011
American Heart Association Pre-Doctoral Fellowship
"MiRNA based gene induction via complementary promoter binding".
Direct costs: \$26,000/year

Talks/Seminars

- 02/2025 International Stroke Conference 2024, Los Angeles, CA **(Session Chair)**. 'Translational Basic Science Oral Abstracts II'.
- 02/2024 USF Neuroscience Institute (NSI) Seminar Series, Tampa FL. 'Enhancer RNAs as modulators of the post-stroke chromatin landscape and pathophysiology'.
- 02/2024 International Stroke Conference 2024, Phoenix, AZ **(invited)**. Basic and Translational Science Networking Luncheon Invited Symposium 'Scientists: Tips on setting up your lab/ Pros and cons of collaboration/How and when to establish a collaboration'.
- 02/2024 International Stroke Conference 2024, Phoenix, AZ **(Session Chair)**. 'Contemporary Epigenetic and Transcriptomic Approaches Toward Translational Stroke Research'.
- 10/2023 XLI Annual Meeting of the Indian Academy of Neurosciences and International Conference on Brain: Chemistry to Cognition, Gwalior, Madhya Pradesh, India **(invited)**. 'Regulatory RNAs as therapeutic targets to mitigate brain injury'.
- 06/2023 BRAIN & BRAIN PET conference, Brisbane, Australia **(invited)**. 'Enhancer RNAs and enhancer-centric gene regulatory networks in ischemic stroke'.
- 03/2023 American Society for Neurochemistry 2023 Meeting, Lexington, KY **(Panel Chair)**. 'The Emerging Transcriptome in Brain Health and Disease'.
- 05/2022 BRAIN & BRAIN PET conference, Glasgow, UK **(invited)**. 'Expression and function of enhancer RNAs in the male and female cortex during cerebral ischemia'.
- 05/2021 Department of Anesthesiology and Perioperative Medicine, Oregon Health and Science University **(invited)**. 'Deep-diving into the post-stroke transcriptome for target discovery against ischemic brain damage'.
- 04/2021 Byrd Alzheimer's Research Institute, University of South Florida, Tampa, FL **(invited)**. 'Deep-diving into the post-stroke transcriptome for target discovery against ischemic brain damage'.
- 01/2021 Department of Neurological Sciences, University of Nebraska Medical Center, Omaha, NE **(invited)**. 'Deep-diving into the post-stroke transcriptome for target discovery against ischemic brain damage'.
- 09/2020 Department of Neuroscience, University of Connecticut, Farmington, CT **(invited)**. 'Deep-diving into the post-stroke transcriptome for target discovery against ischemic brain damage'.
- 08/2020 Department of Neurosurgery, RWJ Medical School, Rutgers University, NJ **(invited)**. 'Deep-diving into the post-stroke transcriptome for target discovery against ischemic brain damage'.
- 02/2020 International Stroke Conference, Los Angeles, CA **(invited)**. 'Regulation of gene expression and post-stroke pathophysiology by an enhancer RNA'.
- 02/2019 Invited Symposium, AHA International Stroke Conference, HI **(Session Chair)**. 'Therapeutic potential of noncoding RNAs in stroke: current knowledge, challenges and future directions'.
- 06/2019 Department of Neuroscience (Zappulla Research Day), JFK Medical Center, NJ. 'Identification of stroke-responsive gene regulatory domains in the adult cerebral cortex'.
- 09/2018 Department of Neuroscience (Zappulla Research Day), JFK Medical Center, NJ. 'Old dog, new tricks: investigating novel products of known genes as therapeutic targets in cerebral ischemia'.

- 06/2016 Department of Neuroscience (Zappulla Research Day), JFK Medical Center, NJ. 'Expression and functional interactions of long noncoding RNAs in the post-stroke cerebral cortex.'
- 12/2015 Department of Neuroscience, JFK Medical Center, NJ **(invited)**. 'Expression and functional interactions of long noncoding RNAs in the normal and post-stroke brain'.
- 01/2015 Department of Biology, Syracuse University, NY **(invited)**. 'Epigenetic regulation of gene expression by noncoding RNAs during cerebral ischemia'.
- 12/2012 Theoretical Biology and Biophysics, Los Alamos National Laboratory, NM **(invited)**. 'The role of noncoding RNAs in modulating post-stroke gene expression'.
- 10/2012 Abramson Family Cancer Research Institute, University of Pennsylvania, PA **(invited)**. 'The role of noncoding RNAs in modulating post-stroke gene expression'.

Media/Interviews

- 06/2014 ASN Neuro: Interview with Ashutosh Dharap. Listen to Ashutosh Dharap discuss his latest [ASN NEURO paper](#) on increased binding of stroke-induced long non-coding RNAs to the transcriptional corepressors Sin3A and coREST.
<https://sageneuroscience.libsyn.com/webpage/category/ASN%20Neuro>

Membership & Service

- Professional Membership

- 2022-current Member, American Society for Neurochemistry.
- 2022-current Member, International Society for Cerebral Blood Flow and Metabolism.
- 2016-current Member, International Society for Neurochemistry.
- 2009-current Member, American Heart Association.
- 2008-2016 Member, Society for Neuroscience.
- 2007-2011 Member, Seminar Topics Standing Committee, Neuroscience Training Program, University of Wisconsin, Madison, WI, USA.
- 2004-2006 Member, Zoology Association, Pune University, India.
- 2001-2004 Organizing Committee Member, Zoology Association, Fergusson College, India.

- Institutional Service

- 08/2024-current Member of PhD Admissions & Recruitment Committee, PhD program in Medical Sciences, USF Health Morsani College of Medicine, Tampa, FL
- Fall 2022-current Application Reviewer, PhD program in Medical Sciences, USF Health Morsani College of Medicine, Tampa, FL
- 07/2023 Application Reviewer, Dorothy Benjamin Graduate Fellowship in Alzheimer's Research, USF Health Neuroscience Institute Byrd Alzheimer's Center, Tampa, FL

2023-2025	Member, Faculty Search Committee, Neuroscience Institute, USF Health Morsani College of Medicine, Tampa, FL
Spring 2023	LCME Accreditation Site Visit participant (Junior Faculty), USF Health Morsani College of Medicine, Tampa, FL
Fall '22, Spring '23	Co-Chair, USF Neuroscience Institute Seminar Series, Tampa, FL
04/2022-06/2025	Member, USF Health College of Medicine Committee on Research (COMCOR), Tampa, FL
10/2020	Neurology Student Interest Group - Neurology Research Panel member, HMM School of Medicine, Nutley, NJ
2020-2021	Member, JFK Neuroscience Institute Task Force on Communication, HMM JFK Medical Center, Edison, NJ
2019	Member, Faculty Search Committee, JFK Neuroscience Institute, HMM JFK Medical Center, Edison, NJ
2018	Member, JFK Neuroscience Institute Strategic Planning Focus Group, HMM JFK Medical Center, Edison, NJ

- PhD Committees and Comprehensive Qualifying Examinations (CQE)

08/2025-current	Dissertation Committee Member for Brianna Ariza (Dr. Laura Blair's lab), USF Medical Sciences PhD Program, Tampa, FL
05/2024	CQE Chair, MD/PhD candidate Natasha Ram (Dr. Gopal Thinakaran's lab), USF Medical Sciences PhD Program, Tampa, FL

- Study Section/Grant Review

03/2025	Ad hoc grant reviewer, Nucleic Acid Therapeutic Delivery Special Emphasis Panel (SEP; ZRG1 BBBT (81)), Center for Scientific Review, NIH, USA
10/2024	Ad hoc grant reviewer, Genetics of Health and Disease (GHD) study section, Center for Scientific Review, NIH, USA
09/2020	Ad hoc grant reviewer, Neurosciences and Mental Health Board, UKRI Medical Research Council, UK
02/2019	Ad hoc grant reviewer, Brain Injuries and Neurovascular Pathologies (BINP) study section, Center for Scientific Review, NIH, USA

- Project/Technical Review

01/2023	Appraisal Review Team, Triad National Security, Los Alamos National Laboratory Directed Research Development (LDRD), Los Alamos, NM
11/2021	Appraisal Review Team, Triad National Security, Los Alamos National Laboratory Directed Research Development (LDRD), Los Alamos, NM

- Conference Sessions (Chair/Co-Chair)

02/2024	Session Chair, 'Contemporary Epigenetic and Transcriptomic Approaches Toward Translational Stroke Research', International Stroke Conference, Phoenix, AZ
06/2023	Session Chair, 'Epigenetics and non-coding RNAs in brain damage', Brain & Brain PET 2023, Brisbane, Australia
03/2023	Session Chair, 'The Emerging Transcriptome in Brain Health and Disease', American Society for Neurochemistry 2023 Meeting, Lexington, KY
02/2019	Session Chair, 'Therapeutic potential of noncoding RNAs in stroke: current knowledge, challenges and future directions', International Stroke Conference, Honolulu, HI

- Editor/Editorial Board Membership

01/2024-current	Editorial Board Member, NeuroMolecular Medicine, Springer Nature Publishing.
07/2023-current	Editorial Board Member, CNS Neuroscience & Therapeutics, Wiley-Blackwell Publishing.

- Manuscript Peer-Review

Ad hoc reviewer	Journal of Neuroinflammation; Journal of Neurochemistry; Experimental Neurology; Stroke; Frontiers in Neurology; Cardiovascular Research; Neurochemistry International; NeuroMolecular Medicine; ASN Neuro; Translational Stroke Research; Molecular Neurobiology; Neuroscience; PLoS One; Annals of Clinical and Translational Neurology; BioMed Research International; Molecular Therapy; CNS Neuroscience & Therapeutics; GLIA; Brain, Behavior, and Immunity; Nature Communications;
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Teaching

- Didactic

Spring 2025	Tissue/organ-specific features of vascular biology and related diseases (GMS 7930.007), 1-hour lecture on the biology and pathophysiology of stroke, University of South Florida, Tampa, FL.
Spring 2025	Advanced Medical Neuroscience Course (GMS 6704), 2-hour lecture and discussion on current research and clinical management strategies for stroke, University of South Florida, Tampa, FL.
Spring 2024	Neurological System (Course 4 Neuro; BMS6641.001.714M23), 2-hour lecture on Neuronal mechanisms in Cerebrovascular Disease, University of South Florida, Tampa, FL.
Spring 2024	Advanced Medical Neuroscience Course (GMS 6704), 2-hour lecture and discussion on current research and clinical management strategies for stroke, University of South Florida, Tampa, FL.
Spring 2023	Tissue/organ-specific features of vascular biology and related diseases (GMS 7930.007), 1-hour lecture on the biology and pathophysiology of stroke, University of South Florida, Tampa, FL.
Spring 2023	Advanced Medical Neuroscience Course (GMS 6704), 2-hour lecture and discussion on current research and clinical management strategies for stroke, University of South Florida, Tampa, FL.
Spring 2022	Advanced Medical Neuroscience Course (GMS 6704), 2-hour lecture and discussion on current research and clinical management strategies for stroke, University of South Florida, Tampa, FL.

Fall 2010 Neuroscience Instructor, Pre-College Enrichment Opportunity Program for Learning Excellence (PEOPLE), University of Wisconsin, Madison, WI.

Summer 2009 Teaching Assistant, Neurosci 675: Cellular and Molecular Mechanisms of Brain Damage, University of Wisconsin School of Medicine and Public Health, Madison, WI.

- Seminar Format

Spring 2025 Co-Director, Graduate Seminar (GMS7939.003), 1-hour weekly seminar in the USF Neuroscience Institute Seminar Series, University of South Florida, Tampa, FL.

Fall 2024 Co-Director, Graduate Seminar (GMS7939.003), 1-hour weekly seminar in the USF Neuroscience Institute Seminar Series, University of South Florida, Tampa, FL.

Spring 2024 Co-Director, Graduate Seminar (GMS7939.004), 1-hour weekly seminar in the USF Neuroscience Institute Seminar Series, University of South Florida, Tampa, FL.

Fall 2023 Co-Director, Graduate Seminar (GMS7939.003), 1-hour weekly seminar in the USF Neuroscience Institute Seminar Series, University of South Florida, Tampa, FL.

Spring 2022 Work in Progress/Molecular Medicine/Signature Interdisciplinary Program in Allergy, Immunology, and Infectious Disease (GMS 7939), 1-hour seminar, University of South Florida, Tampa, FL.

06/2019 CME lecture, JFK Neuroscience Institute Zappulla Research Day, NJ. 'Identification of stroke-responsive gene regulatory domains in the adult cerebral cortex'.

10/2018 CME lecture, JFK Neuroscience Institute Zappulla Research Day, NJ. 'Old dog, new tricks: investigating novel products of known genes as therapeutic targets in cerebral ischemia'.

06/2016 CME lecture, JFK Neuroscience Institute Zappulla Research Day, NJ. 'Expression and functional interactions of long noncoding RNAs in the post-stroke cerebral cortex'.

- Supervised Undergraduate Research

Summer 2025 USF Honors Undergraduate Research (IDH 4910), Judy Genshaft Honors College, supervised research of undergraduate student Ms. Diya Patel.

Spring 2025 USF Honors Undergraduate Research (IDH 4910), Judy Genshaft Honors College, supervised research of undergraduate student Mr. Ankit Patel.

Fall 2024 USF Honors Thesis II (IDH 4970.002), Judy Genshaft Honors College, supervised research of undergraduate student Mr. Ankit Patel.

Spring 2024 USF Honors Thesis I (IDH 4970.001), Judy Genshaft Honors College, supervised research of undergraduate student Mr. Ankit Patel.

Spring 2024 USF Honors Undergraduate Research (IDH 4910), Judy Genshaft Honors College, supervised research of undergraduate student Ms. Ana Machado Olavarria.

Fall 2023 USF Honors Undergraduate Research (IDH 4910), Judy Genshaft Honors College, supervised research of undergraduate student Ms. Ana Machado Olavarria.

Summer 2023 Biomedical Engineering Internship Experience (BME 4943), supervised research of undergraduate student Mr. Jose Lulo Gonzalez.

- Summer 2023 USF Honors Internship (IDS 3947), Judy Genshaft Honors College, supervised research of undergraduate student Mr. Ankit Patel.
- Spring 2023 USF Honors Undergraduate Research (IDH 4910), Judy Genshaft Honors College, supervised research of undergraduate student Mr. Ankit Patel.
- Spring 2022 USF Honors Undergraduate Research (IDH 4910), Judy Genshaft Honors College, supervised research of undergraduate student Ms. Maria Sara Cueto.

- Supervised Graduate Research

Fall 2023-current Dhanashri Satav, PhD in Medical Sciences, University of South Florida Morsani College of Medicine, Tampa, FL.

Mentoring/Trainees

Postdoctoral Researchers

Sarra Limam, Ph.D.	Postdoctoral Scholar	04/2022-current
Ashirbad Guria, Ph.D.	Postdoctoral Scholar	04/2022-05/2023
Sandeep Miryala, Ph.D.	Postdoctoral Scholar	03/2022-03/2023
Aparna Akella, Ph.D.	Postdoctoral Research Associate	04/2018-01/2020
Sunil Bhattarai, Ph.D.	Postdoctoral Research Associate	08/2016-03/2021

Graduate Students

Rajarshi Sarkar	PhD Rotation (Medical Sciences, USF)	09/2025-10/2025
Jesse Popover	PhD Rotation (Medical Sciences, USF)	08/2025-09/2025
Emily Sanborn	PhD Rotation (Medical Sciences, USF)	08/2025-09/2025
Sufiya Ali	PhD Rotation (Medical Sciences, USF)	08/2025-09/2025
Krystin Marlin	PhD Rotation (Medical Sciences, USF)	09/2024-11/2024
Debora Endo Colodete	PhD Rotation (Medical Sciences, USF)	08/2024-09/2024
Dhanashri Satav	PhD Student (Medical Sciences, USF)	08/2023-current
Navita Kohaal	PhD Rotation (Medical Sciences, USF)	08/2022-09/2022
Marsilla Gray	PhD Rotation (Medical Sciences, USF)	11/2022-12/2022

Technicians/Post-Bac Research Associates/Scientists

Katrina Diel	Research Scientist	10/2025-current
Alfonse Mazzarella, B.S.	Research Technician	07/2023-06/2024
Ashley Hedrick, B.S.	Research Technician	01/2023-02/2024
Randall Hernandez-Jimenez, B.S.	Research Scientist-Lab Manager	03/2022-current
Rajashree Hariprasad, B.S.	Post-Bac Research Volunteer	01/2022-04/2022
Diandra Ruiz, B.S.	Research Technician	08/2020-02/2022
Atish Gandhi, B.S.	Post-Bac Research Volunteer	08/2018-07/2019
Fabrizio Pontarelli, B.S.	Research Specialist	05/2016-08/2017

Undergraduate Students

Emma Kaiser	Honors Research Assistant	08/2025-current
Diya Patel	Honors Research Assistant	05/2025-current

Rebecca Nieves	Undergraduate Researcher	01/2025-current
Ana Beatriz Melgar	Undergraduate Researcher	01/2025-current
Arya Ganne	Undergraduate Researcher	01/2025-current
Mitali Chaudhari	Undergraduate Researcher	09/2024-current
Mouktik Isukapalli	Undergraduate Researcher	05/2024-12/2024
Saanvy Patel	Undergraduate Researcher	03/2024-08/2024
Mia Strawser	Undergraduate Researcher	02/2024-01/2025
Rachel Sharp	Undergraduate Researcher	08/2023-12/2023
Jose Lulo Gonzalez	Undergraduate Summer Intern (REU)	05/2023-07/2023
Hailey Mathieu	Undergraduate Researcher	01/2023-08/2024
Ana Machado Olavarria	Undergraduate Researcher	01/2023-05/2024
Anna Jablonska	Undergraduate Summer Student	06/2022-07/2022
Ankit Patel	Honors Research Assistant	05/2022-current
Ashley Hedrick	Undergraduate Researcher	05/2022-12/2022
Maria Sara Cueto	Undergraduate Researcher	11/2021-05/2023
Diandra Ruiz	Undergraduate Researcher	01/2020-05/2020
Luiza Khassanova	Undergraduate Researcher	02/2019-06/2019
Tara Sajadian	Undergraduate Researcher	01/2019-04/2019
Avani Bhatnagar	Undergraduate Summer Student	06/2018-08/2018
Mahindra Bandari	Undergraduate Summer Student	05/2018-08/2018
Ahmed Aly	Undergraduate Researcher	01/2018-08/2018
Kristy Garcia	Undergraduate Researcher	01/2018-08/2018
Diandra Ruiz	Undergraduate Researcher	08/2017-05/2018
Sandhya Shankar	Undergraduate Summer Student	07/2017-08/2017
John Amato	Undergraduate Summer Student	07/2017-08/2017
Emily Prendergast	Undergraduate Researcher	08/2016-04/2017
Rida Aziz	Undergraduate Summer Student	07/2016-08/2016

Invited Book Chapters

1. **Dharap, A.**, Nakka, VP and Vemuganti R. (2012) MicroRNAs in the Ischemic Brain: The Fine-Tuning Specialists and Novel Therapeutic Targets. *From Target Selection to Clinical Trials (Springer Series in Translational Stroke Research)*. DOI: 10.1007/978-1-4419-9530-8. Hardcover, ISBN 978-1-4419-9529-2.
2. **Dharap A.**, and Vemuganti R. (2017) Noncoding RNAs and Stroke: Primer on Cerebrovascular Diseases, Second Edition (Elsevier). Pages 276-279. Hardcover, ISBN: 978-0-12-803058-5.

Journal Publications

1. Limam S#, Patel A#, Satav D, Miryala S, and **Dharap A** (2025). Widespread induction of SINE-RNA expression in the mouse brain following transient focal ischemia. *Experimental Neurology*. <https://doi.org/10.1016/j.expneurol.2025.115424> #Equal Contribution.
2. Patel A and **Dharap A** (2025). Changes in 3D chromatin organization drive topologically determined gene expression in the post-stroke mouse cortex. *Stroke*. <https://doi.org/10.1161/STROKEAHA.125.050915>
3. Hernandez-Jimenez R#, Patel A#, Machado-Olavarria A, Mathieu H, Guergues J, Wohlfahrt J, Stevens Jr. S, and **Dharap A** (2024). Cellular Resiliency and Survival of a Neuro-2a Cell Line Under Extreme Stress. *Experimental Cell Research*. doi: 10.1016/j.yexcr.2024.114275. #Equal Contribution.

4. Patel A and **Dharap A** (2024). An emerging role for enhancer RNAs in brain disorders. *NeuroMolecular Medicine*. doi: 10.1007/s12017-024-08776-3.
5. Ruiz J#, Bhattarai S# and **Dharap A** (2021). Sex-based eRNA expression and function in ischemic stroke. *Neurochemistry International*. doi: 10.1016/j.neuint.2021.105149 PMID: 34358636; #Equal Contribution.
6. Bhattarai S, Akella A, Gandhi A and **Dharap A** (2020) Modulation of brain pathology by enhancer RNAs in cerebral ischemia. *Molecular Neurobiology*. doi: 10.1007/s12035-020-02194-9 PMID: 33201427
7. Akella A, Bhattarai S and **Dharap A** (2019) Long noncoding RNAs in the pathophysiology of ischemic stroke. *NeuroMolecular Medicine*. doi: 10.1007/s12017-019-08542-w PMID: 31119646
8. Bhattarai S, Aly A, Garcia K, Ruiz D, Pontarelli F and **Dharap A** (2018) Deep sequencing reveals uncharted isoform heterogeneity of the protein-coding transcriptome in cerebral ischemia. *Molecular Neurobiology*. doi:10.1007/s12035-018-1147-0 PMID: 29862458
9. Bhattarai S, Pontarelli F, Prendergast E and **Dharap A** (2017) Discovery of novel stroke-responsive lncRNAs in the mouse cortex using genome-wide RNA-seq. *Neurobiology of Disease*. doi:10.1016/j.nbd.2017.08.016 PMID: 28855129
10. **Dharap A**, Pokrzywa C, Murali S, Kaimal B and Vemuganti R (2015) Mutual induction of transcription factor PPAR γ and microRNAs miR-145 and miR-329. *Journal of Neurochemistry*. doi:10.1111/jnc.13220. PMID: 26119485
11. Mehta SL, **Dharap A** and Vemuganti R (2014) Expression of transcribed ultraconserved regions of genome in rat cerebral cortex. *Neurochemistry International*. doi: 10.1016/j.neuint.2014.06.006 PMID: 24953281
12. **Dharap A**, Murali S, Pokrzywa C, Pandi G and Vemuganti R (2013) MicroRNA-324-3p induces promoter-mediated expression of the RelA gene. *PLoS One*. doi: 10.1371/journal.pone.0079467. PMID: 24265774
13. **Dharap A***, Pokrzywa C and Vemuganti R (2013) Increased binding of stroke-induced long noncoding RNAs to the transcriptional corepressors Sin3A and coREST. *ASN Neuro*. doi:pri: e00124. 10.1042/AN20130029.
SEP*Co-corresponding author (Manuscript identified by editorial board to be of special interest. Invited to record podcast on the study). PMID: 24063527
14. Novikova I, **Dharap A**, Hennelly S and Sanbonmatsu K (2013) 3S: Shotgun Secondary Structure determination for long non-coding RNAs. *Methods*. doi: 10.1016/j.ymeth.2013.07.030. PMID: 23927838
15. Pandi G, Nakka VP, **Dharap A** and Vemuganti R (2012) MiR-29c down-regulation mediates ischemic cell death by derepressing DNMT3a. *PLoS One*. doi: 10.1371/journal.pone.0058039. PMID: 23516428
16. **Dharap A**, Nakka VP, and Vemuganti, R (2012) Effect of focal ischemia on long noncoding RNAs. *Stroke*. 43:2800-2802. PMID: 22949471
17. **Dharap A**, Nakka VP, and Vemuganti, R (2011) Altered expression of piRNAs in rat brain following transient focal ischemia. *Stroke*. 42:1105-9. PMID: 21311060
18. **Dharap A**, Vemuganti, R (2010) Ischemic preconditioning alters cerebral microRNAs that are upstream to neuroprotective signaling pathways. *J. Neurochem*. doi: 10.1111/j.1471-4159.2010.06735.x. PMID: 20402966
19. **Dharap A**, Bowen K, Place RF, Li LC and Vemuganti R (2009) Transient focal ischemia induces extensive temporal changes in rat cerebral MicroRNAome. *J. Cereb. Blood Flow Metab*. doi: 10.1038/jcbfm.2008.157. PMID: 19142192

Conference Abstracts

1. 2025. Society for Neuroscience Annual Meeting, San Diego, CA. Satav D, Limam S, **Dharap A.** Identification and Characterization of SINE-RNA Expression in the Brain following Ischemic Stroke
2. 2024. 11th International Symposium on Neurorepair and Neuroprotection, Potsdam, Germany. Patel A, Limam S, **Dharap A.** eSINE-RNAs as modulators of neuronal fate in the post-stroke mouse brain.
3. 2023. XLI Annual Meeting of the Indian Academy of Neurosciences and International Conference on Brain: Chemistry to Cognition, Gwalior, Madhya Pradesh, India. Limam S, Patel A, Miryala S, Sara Cueto M, **Dharap A.** Regulatory RNAs as therapeutic targets to mitigate brain injury.
4. 2023. Brain & Brain PET, Brisbane, Australia. Limam S, Patel A, Sara Cueto M, **Dharap A.** Enhancer RNAs and enhancer-centric gene regulatory networks in ischemic stroke
5. 2022. Brain & Brain PET, Glasgow, Scotland. Bhattarai S, Ruiz D, Gandhi A, **Dharap A.** Expression and function of enhancer RNAs in the male and female cortex during cerebral ischemia.
6. 2020. International Stroke Conference, Los Angeles, CA. Bhattarai S, Akella A, Ghani A, Gandhi A, **Dharap A.** Regulation of Post-Stroke Gene Expression and Pathophysiology by an Enhancer RNA.
7. 2018. Regulatory and Noncoding RNAs, Cold Spring Harbor Laboratory, NY. Bhattarai S, Pontarelli F, **Dharap A.** Expression of lncRNAs in post-ischemic mouse cortex.
8. 2018. International Stroke Conference, Los Angeles, CA. Bhattarai S, Pontarelli F, **Dharap A.** Exploring the Noncoding Transcriptome For Novel Therapeutic Targets Against Cerebral Ischemia.
9. 2017. Society for Neuroscience Annual Meeting, Washington D.C. Bhattarai S, Pontarelli F, **Dharap A.** Exploring the genome's dark matter for novel therapeutic targets against ischemic stroke.
10. 2016. International Stroke Conference, Los Angeles, CA. Mehta SL, **Dharap A,** Vemuganti R. Stroke Extensively Alters the Cerebral Expression of Transcribed Ultraconserved Regions of the Genome
11. 2014. Long Noncoding RNAs: Marching toward Mechanism (Keystone Symposia), Santa Fe, NM. Novikova IV, Hennesly SP, **Dharap A,** Questa J, Dean C, Boyer LA and Sanbonmatsu KY. Structural studies of intact long non-coding RNAs in plants and mammals.
12. 2012. Regulatory and Noncoding RNAs, Cold Spring Harbor Laboratory, NY. **Dharap A.,** Pandi G, Murali S, Pokrzywa C and Vemuganti R. MiR-324-3p induces the promoter- mediated expression of the pro-inflammatory RelA gene after ischemia.
13. 2011. Society for Neuroscience Annual Meeting, Washington D.C. **Dharap A.,** Kaimal B and Vemuganti R. Transcription factor PPAR γ induces promoter-mediated microRNA expression.
14. 2010. American Society for Neurochemistry Annual Meeting, Santa Fe, NM. **Dharap A.,** and Vemuganti R. Ischemic preconditioning alters cerebral microRNAs that control neuroprotective signaling pathways.
15. 2010. Society for Neuroscience Annual Meeting, San Diego, CA. **Dharap A.,** Nakka VP., and Vemuganti R. Piwi-interacting RNAs – new non-coding candidates for post-ischemic gene regulation?
16. 2010. Society for Neuroscience Annual Meeting, San Diego, CA. Pandi G., Nakka VP., **Dharap A.,** Potter WB., Roopra A., and Vemuganti R. Role of microRNA-29c in ischemic brain damage.
17. 2008. Society for Neuroscience Annual Meeting, Washington D.C. **Dharap, A.,** R.F. Place, L.C. Li, and R. Vemuganti. MicroRNA induced gene activation in stroke: A bioinformatics prediction.

18. 2007. Society for Neuroscience Annual Meeting, San Diego, CA. **Dharap, A.**, K. Bowen, and R. Vemuganti. Focal ischemia induces a rapid and sustained change in the cerebral microRNAome.