

Honors: (Selected)

2005

- Young Investigator travel award, Gordon Research Conference, CAG Repeat Disorders, Boston
- Best poster Award, Annual Biomedical Postdoc Symposium, University of Pennsylvania
- Best Poster Award, Annual Neurodegeneration Retreat, University of Pennsylvania

2006

- Best poster Award, Annual Biomedical Postdoc Symposium, University of Pennsylvania
- Career Developmental grant from the Muscular Dystrophy Association (2006-2009)

2007

- Travel Award, Gordon Research Conference on CAG Triplet Repeat Disorders, France
- Best Poster Award, Annual Neurodegeneration Retreat, University of Pennsylvania
- Travel award, Keystone Symposia, Molecular Mechanisms of Neurodegeneration, New Mexico

2011

- The Board of Regents (State of Louisiana) Travel Grant for Emerging Faculty (TGEF)

2012

- Faculty Assembly Award, Outstanding Accomplishments by a Young Faculty Member (LSUHSC)

2013

- LSU School of Medicine Alumni Excellence Award

2016

- Selected for "Best short talk" at International Conference on Molecular Neurodegeneration, Seoul, South Korea

Publications (total number of citations 13,522; h-index- 30): updated May 2021

1. **Pandey UB**, Phadke S, Mittal B. Molecular screening of FRAXA and FRAXE in Indian patients with unexplained mental retardation. **Genet Test**. 2002; 6: 335-9.
2. **Pandey UB**. Response to Poon et al.-"FRAXAC1 and DXS548 polymorphisms in the Chinese population". **Am J Med Genet**. 2003, 122A(2):186
3. Singh MK, **Pandey UB**, Ghoshal UC, Srivenu I, Kapoor VK, Choudhuri G, Mittal B. Apolipoprotein B-100 XbaI gene polymorphism in gallbladder cancer. **Hum Genet**. 2004, 114(3):280-3
4. **Pandey UB**, Mittal B, Phadke S. Molecular diagnosis and genetic counseling of fragile X mental retardation. **Neurol India**. 2004, 52(1):36-42
5. Singh MK, Chetri K, **Pandey UB**, Kapoor VK, Mittal B, Choudhuri G. Mutational spectrum of K-ras oncogene among Indian patients with gallbladder cancer. **J Gastro and Hepato**, 2004, 19, 916-921(6)
6. **Pandey UB**, Mittal B. Molecular basis of X-linked non-specific mental retardation. In **J Exp Biol**. 2004, 42(6):549-57
7. **Pandey UB**, Nie Z, Batlevi Y, McCray BA, Ritson GP, Nedelsky NB, Schwartz SL, DiProspero NA, Knight MA, Schuldiner O, Padmanabhan R, Hild M, Berry DL, Garza D, Hubbert CC, Yao TP, Baehrecke EH, Taylor JP. HDAC6 rescues neurodegeneration and provides an essential link between autophagy and the UPS. **Nature**. 2007 Jun 14; 447(7146):860-4.

***Previewed in 'Neuron' and selected for 'must read paper' by faculty 1000 biology**

8. **Pandey UB**, Batlevi Y, Baehrecke EH, Taylor JP. HDAC6 at the Intersection of Autophagy, the Ubiquitin-proteasome System, and Neurodegeneration. **Autophagy**. 2007, 3 (6)
9. Lee JY, Koga H, Kawaguchi Y, Tang W, Wong E, Gao YS, **Pandey UB**, Kaushik S, Tresse E, Lu J, Taylor JP, Cuervo AM and Yao TP. HDAC6 controls autophagosome-lysosome fusion in basal homeostatic autophagy critical for protein aggregate clearance and neurodegeneration, **EMBO J** 2010, **29**, 969 – 980 “Selected for the “Editor’s Choice”, **Science Feb 5th, 2010**
10. Batlevi Y, Simon C, **Pandey UB**, Powers C, Taylor JP, and Baehrecke EH. Dynein light chain 1 is required for autophagy, protein clearance and cell death in *Drosophila*, **PNAS**, 2010 107, 2
11. Todd PK, Oh SY, Krans A, **Pandey UB**, DiProspero N, Min KT, Taylor JP and Paulson HL Histone deacetylases suppress CGG repeat-induced neurodegeneration via transcriptional silencing in models of Fragile X Tremor Ataxia Syndrome. **PLoS Genetics** 2010 Dec 9;6(12) *Highlighted in **Nature Chemical Biology**, **7(2)**, 2011
12. **Pandey UB** and Nichols CD. Human disease models in *Drosophila melanogaster*, and the role of the fly in therapeutic drug discovery. **Pharmacol Rev** 2011, Jun;63(2):411-36
13. Lanson NA, Maltare A, King H, Smith R, Kim JH, Taylor JP, Lloyd TE and **Pandey UB**. A *Drosophila* model of FUS-related neurodegeneration reveals genetic interaction between FUS and TDP-43. **Hum Mol Genet**. 2011 20(13):2510-23 **Corresponding Author**
14. Nichols CD, Bechnel J, **Pandey UB**. Methods to assay *Drosophila* behavior. **J Vis Exp**. 2012 Mar 7;(61) **Corresponding Author**
15. Lanson NA, **Pandey UB**. FUS-related Proteinopathies: Lessons from Animal Models. **Brain Research** 2012 Jun 26; 1462:44-60 **Corresponding Author**
16. Klionsky DJ, *et. al.*, Guidelines for the use and interpretation of assays for monitoring autophagy. **Autophagy** 2012; April 8(4)
17. Daigle JG, Lanson NA, Smith RB, Casci I, Maltare A, Monaghan J, Nichols CD, Kryndushkin D, Shewmaker F, **Pandey UB**. RNA binding ability of FUS regulates neurodegeneration, cytoplasmic mislocalization and incorporation into stress granules associated with FUS carrying ALS-linked mutations. **Hum Mol Genet**. 2013 Mar 15;22(6):1193-205 **Corresponding Author**
18. Scaramuzzino C, Monaghan J, Milioto C, Lanson NA, Maltare A, Aggarwal A, Casci I, Fackelmeyer F, Pennuto M*, **Pandey UB**. Protein arginine methyltransferase 1 and 8 interacts with FUS and regulate sub-cellular distribution of FUS *in vitro* and *in vivo*. **PLoS ONE**. 2013 Apr 19;8(4) **Corresponding Author**
19. Shahidullah M, Le Marchand SJ, Fei H, Zhang J, **Pandey UB**, Dalva MB, Pasinelli P, Levitan IB. Defects in Synapse Structure and Function Precede Motor Neuron Degeneration in *Drosophila* Models of FUS-Related ALS. **J Neurosci**. 2013 Dec 11;33(50):19590-8
20. Wen X, Tan W, Westergard T, Krishnamurthy K, Shamamandri Markandaiah S, Lin S, Ichida JK, Monaghan J, **Pandey UB**, Pasinelli P and Trotti D. Antisense Proline-Arginine RAN dipeptides linked to C9ORF72-ALS/FTD form toxic nuclear aggregates that initiate *in vitro* and *in vivo* neuronal death, **Neuron** 2014 Dec 17;84(6)
21. Casci I and **Pandey UB**. A Fruitful Endeavor: Modeling ALS in the Fruit Fly. **Brain Research** 2015 May 14; 1607:47-74 **Corresponding Author**
22. Scaramuzzino C, Casci I, Parodi S, Lievens PMJ, Milioto C, Polanco MJ, Chivet M, Mishra A, Badders N, Aggarwal N, Grunseich C, Sambataro F, Basso M, Fackelmeyer FO, Taylor JP, **Pandey UB** and Pennuto M. Protein arginine methyltransferase 6 enhances

polyglutamine-expanded androgen receptor function and toxicity in spinal and bulbar muscular atrophy. **Neuron** 2015 Jan 7; 84(7)

23. Daigle JG, Krishnamurthy K, Ramesh R, Casci I, Monaghan J, McAvoy K, Godfrey GW, Daniel D, Johnson E, Monahan Z, Shewmaker F, Pasinelli P, **Pandey UB**. Pur alpha ameliorates FUS toxicity and regulates cytoplasmic stress granule dynamics. **Acta Neuropathologica** 2016 Apr;131(4):605-20 **Corresponding Author**
24. Monahan Z, Shewmaker F, **Pandey UB**. Stress granules at the intersection of autophagy and ALS. **Brain Res** 2016 Oct 15;1649:189-200 **Corresponding Author**
25. Crippa V, Cicardi ME, Ramesh N, Seguin SJ, Ganassi M, Bigi I, Diacci C, Zelotti E, Baratashvili M, Gregory JM, Dobson CM, Cereda C, **Pandey UB**, Poletti A, Carra S. The Chaperone HSPB8 reduces the accumulation of truncated TDP-43 species in cells and protects against TDP-43 mediated toxicity. **Hum Mol Genet.** 2016 ;25(18):3908-3924
26. Ramesh N, **Pandey UB**. Autophagy Dysregulation in ALS: When Protein Aggregates Get Out of Hand. **Front Mol Neurosci.** 2017 Aug 22;10:263 **Corresponding Author**
27. Tripathy D, Vignoli B, Ramesh N, Jose Polanco M, Coutelier M, Stephen CD, Canossa M, Monin M, Aeschlimann P, Turberville S, Aeschlimann D, Schmähmann JD, Hadjivassiliou M, Durr A, **Pandey UB**, Pennuto M, Basso M, Mutations in TGM6 induce the unfolded protein response in SCA35. **Hum Mol Genet** 2017;26(19):3749-3762
28. Rudich P, Snoznik C, Watkins SC, Monaghan J, **Pandey UB**, Lamitina T. Nuclear localized C9orf72 associated arginine containing dipeptides exhibit age-dependent toxicity in *C. elegans*. **Hum Mol Genet** 2017 Dec 15;26(24):4916-4928
29. Kim SH, Stiles SG, Feichtmeier JM, Ramesh N, Zhan L, Scalf MA, Smith LM, **Pandey UB**, Tibbetts RS. Mutation-dependent aggregation and toxicity in a *Drosophila* model for UBQLN2-associated ALS. **Hum Mol Genet.** 2018 Jan 15;27(2):322-337
30. Marrone L, Japtok J, Reinhardt P, Janosch A, Andree A, Lee H, Moebius C, Reinhardt L, Hackmann K, Klink B, Alberti S, Bickle M, Hyman AA, Casci I, **Pandey UB**, Hermann A, and Sternecker J. Phenotypic screening using iPSC reporter lines identifies brain-penetrant drugs stimulating autophagy as therapeutics for FUS-ALS. **Stem Cell Reports** 2018 Feb 13;10(2):375-389
31. Anderson EN, Gochenaur L, Singh A, Grant R, Patel K, Watkins S, Wu J, **Pandey UB**. Traumatic injury induces Stress Granule Formation and enhances Motor Dysfunctions in ALS Models. **Hum Mol Genet.** 2018 Apr 15;27(8):1366-1381. **Corresponding Author**
32. Guo L, Kim HJ, Wang H, Monaghan J, Freyermuth F, Sung JC, O'Donovan K, Fare CM, Diaz Z, Singh N, Zhang ZC, Coughlin M, Sweeny EA, DeSantis ME, Jackrel ME, Rodell CB, Burdick JA, King OD, Gitler AD, Lagier-Tourenne C, **Pandey UB**, Chook YM, Taylor JP, Shorter J. Nuclear-Import Receptors Reverse Aberrant Phase Transitions of RNA-Binding Proteins with Prion-like Domains. **Cell.** 2018 Apr 19;173(3):677-692
33. Bakthavachalu B, Huelsmeier J, Sudhakaran I, Hillebrand J, Singh A, Petrauskas A, Thiagarajan D, Sankaranarayanan M, Mizoe L, Anderson EA, **Pandey UB**, Ross E, VijayRaghavan K, Parker R, Ramaswami M. RNP-granules assembly via Ataxin2 disordered domains is required for long-term memory and neurodegeneration. **Neuron.** 2018 May 16;98(4):754-766 ***Previewed in 'Neuron'**
34. Reinhardt L, Kordes S, Reinhardt P, Glatza M, Baumann M, Drexler H, Menninger S, Casci I, Zischinsky G, Eickhoff J, Marrone L, Janosch A, Adachi K, Stehling M, Anderson EA, Storch A, Hermann A, Bickle M, **Pandey UB**, Schöler HR, Nussbaumer P, Klebl B and

- Sternecker JA. Dual inhibition of GSK3 and CDK5 efficiently protects motor neurons against dying back pathology in multiple subtypes of ALS. **Stem Cell Reports**, 2019 Vol. 12; 1–16
35. Mann JR, Gleixner AM, Gomes E, DeChellis-Marks MR, Needham PG, Hurtle B, Portz B, Mauna JC, Calder CB, Copley KE, Wills ZP, **Pandey UB**, Broadsky, Thathiah A, Shorter J and Donnelly CJ. RNA antagonizes TDP-43 proteinopathy. **Neuron** 2019; 102; 1-9
 36. Marrone L, Drexler H, Wang J, Tripathi P, Distler T, Heisterkamp P, Maharana S, Anderson EN, Kour S, Bhatnagar R, Belgard TG, Tripathy V, Moraiti A, Crippa V, Poletti A, Aronica E, Weis J, **Pandey UB**, Alberti S, Goswami A and Sternecker J. FUS pathology in ALS is linked to alterations in multiple ALS-associated proteins and rescued by drugs stimulating autophagy. **Acta Neuropathol.** 2019 Jul;138(1):67-84
 37. Casci I, Krishnamurthy K, Kour S, Ramesh N, Anderson EA, Oliver S, Grant R, Gochenaur L, Patel K, Tripathy V, Marrone L, Sternecker J, Gleixner A, Donnelly C, Ruepp MD, Pasinelli P, **Pandey UB**. Muscleblind acts as a modifier of FUS toxicity by modulating stress granule dynamics and SMN localization. **Nature Communications** 2019 Dec 6;10(1):5583 **Selected for Editor's Choice** **Corresponding author**
 38. Pennuto M, **Pandey UB**, Polanco MJ. Insulin-like growth factor 1 signaling in motor neuron and polyglutamine diseases: From molecular pathogenesis to therapeutic perspectives. **Front Neuroendocrinol.** 2020 Jan 30:100821
 39. Chivet M, Marchioretti C, Pirazzini M, Piol D, Scaramuzzino C, Polanco M, romanello V, Zuccaro E, Parodi S, D'Antonio M, Rinaldi C, Sambataro F, Pegoraro E, Soraru G, **Pandey UB**, Sandri M, Basso M, Pennuto M. Polyglutamine-expanded androgen receptor alteration of skeletal muscle homeostasis and myonuclear aggregation are affected by sex, age and muscle metabolism. **Cells.** 2020 Jan 30;9(2)
 40. Ortega JA, Daley EL, Kour S, Samani M, Tellez L, Hall EA, Esengul TY, Tsai YH, Gendron TF, Donnelly CJ, Siddique T, Savas JN, **Pandey UB**, Kiskinis E. Nucleocytoplasmic Proteomic Analysis Uncovers ETF1 and Nonsense Mediated Decay as Modifiers of ALS C9orf72 Toxicity. **Neuron.** 2020 Feb 5. pii: S0896-6273(20)30046-5
 41. Gogia N, Sarkar A, Mehta AS, Singh MK, **Pandey UB**, Singh A. Inactivation of Hippo and cJun-N-terminal Kinase (JNK) signaling mitigate FUS mediated neurodegeneration in vivo. **Neurobiol Dis.** 2020 Jul;140: 104837
 42. Ramesh N, Kour S, Anderson EN, Rajasundaram D, **Pandey UB**. RNA-recognition motif in MatrIn-3 mediates neurodegeneration through interaction with hnRNPM. **Acta Neuropathol Commun.** 2020 Aug 18;8(1):138 **Corresponding author**
 43. Otte CG, Fortuna TR, Mann JR, Gleixner AM, Ramesh N, Pyles NJ, **Pandey UB**, Donnelly CJ. Optogenetic TDP-43 nucleation induces persistent insoluble species and progressive motor dysfunction in vivo. **Neurobiol Dis.** 2020 Dec;146:105078
 44. García-Cazorla À, Verdura E, Juliá-Palacios N, Anderson EN, Goicoechea L, Planas-Serra L, Tsogetbaatar E, Dsouza NR, Schlüter A, Urreizti R, Tarnowski JM, Gavrilova RH; SHMT2 Working Group, Ruiz M, Rodríguez-Palmero A, Fourcade S, Cogné B, Besnard T, Vincent M, Bézieau S, Folmes CD, Zimmermann MT, Klee EW, **Pandey UB**, Artuch R, Cousin MA, Pujol A. Impairment of the mitochondrial one-carbon metabolism enzyme SHMT2 causes a novel brain and heart developmental syndrome. **Acta Neuropathol.** 2020 Dec;140(6):971-975
 45. Ramesh N, Daley EL, Gleixner AM, Mann JR, Kour S, Mawrie D, Anderson EN, Kofler J, Donnelly CJ, Kiskinis E, **Pandey UB**. RNA dependent suppression of C9orf72 ALS/FTD

associated neurodegeneration by Matrin-3. **Acta Neuropathol Commun.** 2020 Oct 31;8(1):177. **Corresponding author**

46. Migazzi A, Scaramuzzino C, Anderson EN, Tripathy D, Hernández IH, Grant RA, Rocuzzo M, Tosatto L, Virlogeux A, Zuccato C, Caricasole A, Ratovitski T, Ross CA, **Pandey UB**, Lucas JJ, Saudou F, Pennuto M, Basso M. Huntingtin-mediated axonal transport requires arginine methylation by PRMT6. **Cell Rep.** 2021 Apr 13;35(2):108980.
47. Ward C, **Pandey UB**. Matrin-3 dysfunction in myopathy and motor neuron degeneration. **Neural Regen Res, (2021)** (In Press)
48. Lin YC, Kumar MS, Ramesh N, Anderson EN, Nguyen AT, Kim B, Cheung S, McDonough JA, Skarnes WC, Lopez-Gonzalez R, Landers JE, Fawzi NL, Mackenzie IRA, Lee EB, Nickerson JA, Grunwald D, **Pandey UB**, Bosco DA. Interactions between ALS-linked FUS and nucleoporins are associated with defects in the nucleocytoplasmic transport pathway. **Nature Neurosci.** 2021 May 31. doi: 10.1038/s41593-021-00859-9. Epub ahead of print. PMID: 34059832
49. Kour S, Rajan DS, Fortuna TR, Anderson EN, Ward C, Lee Y, Lee S, Shin YB, Chae JH, Choi M, Siquier K, Cantagrel V, Amiel J, Stolerman ES, Barnett SS, Cousin MA, Castro D, McDonald K, Kirmse B, Nemeth AH, Rajasundaram D, Innes AM, Lynch D, Frosk P, Collins A, Gibbons M, Yang M, Desguerre I, Boddaert N, Gitiaux C, Rydning SL, Selmer KK, Urreizti R, Garcia-Oguiza A, Osorio AN, Verdura E, Pujol A, McCurry HR, Landers JE, Agnihotri S, Andriescu EC, Moody SB, Phornphutkul C, Sacoto MJG, Begtrup A, Houlden H, Kirschner J, Schorling D, Rudnik-Schöneborn S, Strom TM, Leiz S, Juliette K, Richardson R, Yang Y, Zhang Y, Wang M, Wang J, Wang X, Platzer K, Donkervoort S, Bönnemann CG, Wagner M, Issa MY, Elbendary HM, Stanley V, Maroofian R, Gleeson JG, Zaki MS, Senderek J, **Pandey UB**. Loss of function mutations in GEMIN5 cause a neurodevelopmental disorder. **Nature Comm.** 2021 May 7;12(1):2558. [Press release](#)
50. Anderson EN, Morera AA, Kour S, Cherry JD, Ramesh N, Gleixner A, Schwartz JC, Ebmeier C, Old W, Donnelly CJ, Cheng JP, Kline AE, Kofler J, Stein TD, **Pandey UB**. Traumatic injury compromises nucleocytoplasmic transport and leads to TDP-43 pathology. **eLife.** 2021 May 26;10:e67587. PMID: 34060470 [Press release](#)
51. Fortuna TR, Kour S, Anderson EN, Ward C, Rajasundaram D, Donnelly CJ, Wyne H, Shewmaker F, **Pandey UB**. DDX17 is involved in DNA damage repair and modifies FUS toxicity in an RGG-domain dependent manner. **Acta Neuropathol.** 2021 June 1. doi: 10.1007/s00401-021-02333-z [Press release](#)

PROFESSIONAL ACTIVITIES

Mentoring and training

Graduate Students: Thesis adviser

- | | |
|----------|---|
| 2011- 15 | Gavin Daigle, <u>graduated in Dec 2015</u> : Currently, Senior Scientist, Neuro23 Inc, CA |
| 2012- 17 | Ian Casci, <u>graduated in May 2017</u> : Currently, Medical Science Liaison at EMD Serono, Inc |
| 2015- 20 | Nandini Ramesh, <u>Graduated in March 2020</u> : Currently, postdoc at Harvard Medical School, Boston |
| 2019- | Tyler Fortuna (Graduate student: ISB Graduate Program): |

Research Associates/Technician

- | | |
|-----------|--|
| 2009-2012 | Astha Maltare, MS (Research Associate I) |
|-----------|--|

2009-2013 Nicholas Lanson Jr, PhD (Research Associate III)
2016-2017 Rogan Grant (Research Specialist): Currently a graduate student at Northwestern University

Postdoctoral Fellows:

2011- 16 John Monaghan, PhD: Mentor (Currently, Project Director, Icon Pharmaceutical, Dublin, Ireland)
2016- Sukhleen Kour, PhD
2016- Eric Anderson, PhD
2017-18 Stacie Oliver, PhD (currently working as a scientific writer)
2017-18 Jimmaline Hardy, PhD (resigned due to health issues)
2019- Darilang Mawrie, PhD

Visiting student:

2012 Samuel Seguin (Visiting Graduate Student, University of Modena, Italy)

Rotation students

2009 Waleed Elsegeiny, IDP student, LSUHSC
2009 Kelly Sherman, IDP student, LSUHSC
2010 Ji Won Park, IDP student, LSUHSC
2011 Joseph Gavin Daigle, IDP student, LSUHSC
2012 Ian D Casci, Genetics Graduate Student, LSUHSC
2012 Regina E Chustz, IDP student, LSUHSC
2012 Jennifer Ramsey, IDP student, LSUHSC
2015 Nandini Ramesh, Human Genetics Program, Upitt
2018 Michael McEnroe, Human Genetics Program, Upitt
2019 Tyler Fortuna, ISB Program, UPitt

Summer students

2010 Hanna King (undergraduate), won the Best Poster Award, Summer Research Students Symposia, LSUHSC
2010 Ty Nichols (medical student at LSUHSC)
2011 Jesus Perez, won the Best Poster Award in the Summer Research Students Symposia, LSUHSC
2011 Kenia Carvajal, High School student
2011 Kyriate' Henry, High School student
2011 Megan Sutton, High School student
2012 Senthil Natarajan, won the Best Poster Award, Summer Research Symposia
2013 Michael Johnson (1st year medical student, LSUHSC)
2013 Jessica Johnson (Undergraduate, Xavier university of Louisiana)
2013 Chris Toups (Undergraduate, LSU-Baton Rouge)
2014 Kaushik Gadela (Undergraduate UPitt)
2015 Sakshi Thassu, (Undergraduate UPitt)
2016 Lauren Gochenaur (Currently a medical student)
2019 Anvi Kumar (Undergraduate at University of Michigan)
2019 Saransh Maheshwari

Undergraduate students (Upitt)

2014-18 Lauren Gochenaur
2014- Sawyer Bressler
2014- 15 Priyanga Selvakumar
2015 Paige Siegel

2015	Alina Maysterchuk
2017-	Caroline Ward
2016-17	Tiffani Tala Najadifar
2016-	Krishani Patel
2016-18	Aditi Singh
2017	Isabel Sink
2017	Ryan Marsden
2017	Devin Dikec
2018	Salena Ringenbach
2018-20	Andrew Grey
2019	Aditya Sonth
2019-20	Shlok Rawat
2019-	Rishit Roy

Thesis and Dissertation Committees:

At Louisiana State University Health Sciences Center (LSUHSC)

2010-2013	Allison C. Augustus-Wallace
2011-2013	Long Li
2012-2013	Aram Asatryan
2012-2013	Aditi Iyengar
2013	Jack DePaolo
2013	John Cefalu
2012	Anasheh Halabi

Outside University of Pittsburgh Medical Center

2015	External expert, dissertation examination committee, Chi-Hong Wu: Graduate student, Department of Neurology, University of Massachusetts School of Medicine, Worcester, MA
2012-2014	Dissertation committee member, Azy Kia: Graduate student, Dr. Piera Pasinelli, Thomas Jefferson Medical Center, Philadelphia
2013- 2015	Dissertation committee member, Rami Ajjuri: Graduate student, Dr. Janis O'Donnell, Department of Biological Sciences, University of Alabama, Tuscaloosa AL
2018	External examiner, graduate dissertation defense, University of Trento, Italy
2018-	Serving as an external examiner for various universities in Italy, India and other countries

At University of Pittsburgh Medical Center (UPitt)

2016-	Mentoring Committee Member: Amanda Gleixner, postdoctoral fellow, Mentor: Chris Donnelly, Department of Neurobiology, UPitt
2016-	Dissertation Committee Member: Jacob Mann, PhD candidate, Department of Neurobiology, UPitt
2016-	Dissertation Committee Member: Paige Rudich, PhD candidate, Department of Pediatrics, UPitt
2018-	Dissertation Committee Member: Naim, Nikki, PhD candidate, Department of Pediatrics, UPitt
2020-	Chair, Comprehensive exam committee, Yunhan Yang, Graduate student, ISB Program, UPitt

Department of Pediatrics, Children's hospital of Pittsburgh

- 2017-** Panel member in the Career Development Panel Discussion at the 10th annual CHRC K12 retreat
- 2015-** Mentoring faculty, Children's Hospital of Pittsburgh Summer Research Program
- 2020-** Pilot grant review panel, Center for Neuroscience Institute, CHP

RESEARCH:

Grants and Contracts:

Current funding

1. NINDS/ NIH 2R01NS081303-01A1
Title: Cellular and Molecular Mechanisms of FUS-related neurodegeneration
Duration: 04/15/2019 – 02/28/2024
Role: PI
2. NINDS/NIH 1R01NS104219-01A1
Title: Genetic Analysis of UBQLN2-associated Neurodegeneration in Frontotemporal Dementia
Duration: 09/01/2020 – 08/31/2024
Role: Co-Investigator (PI: Randel Tibbetts)
3. NINDS/NIH 1R01AG069483-01A1
Title: Determining how defective nucleo-cytoplasmic trafficking leads to neurodegeneration in C9ORF72-related ALS and FTD
Duration: 03/01/2018 – 02/28/2023
Role: Co-Investigator (PI: Evangelos Kiskinis)
4. NIA/NIH 1R21AG064940-01
Title: Oligonucleotide approach to antagonize neurotoxic TDP-43 assemblies in dementia
Duration: 08/15/2019 – 07/30/2021
Role: Co-PI with Dr. Donnelly
5. Commonwealth of PA: Department of Health (Tobacco Research grant)
Title: Determining pathogenic mechanisms of amyotrophic lateral sclerosis
Duration: 01/01/2017 - 12/31/2021 (NCE)
Role: PI
6. The Amyotrophic Lateral Sclerosis (ALS) Association
Title: Identifying genetic and small molecular modifiers of FUS-mediated ALS
Duration: 09/01/2018 – 08/31/2022 (NCE)
Role: PI

Past funding

1. Kennedy's Disease Association grant
Title "A Drosophila model of SBMA"
Duration: 01/01/07-12/31/07
Role: PI

2. Muscular Dystrophy Association Developmental grant
Title "The role of histone deacetylase 6 in spinal and bulbar muscular atrophy"
Duration: 01/01/07-12/31/09
Role: PI
3. Kennedy's Disease Association grant
Title "Identifying molecular targets of HDAC6 in a Drosophila model of SBMA"
Duration: 02/01/08-01/31/09
Role: PI
4. 1P30GM103340-01A1 (Neuroscience COBRE/NIH)
Title: Molecular mechanisms of FUS-related neurodegeneration
Duration: 11/12/2012-05/30/2013
Role: PI (Program Director: Nicholas Bazan, MD, PhD)
5. R03/NIDA
Title: Molecular library screen for suppressors of FUS proteinopathy
Duration: 07/15/2012-06/30/2014
Role: Co- Investigator (PI: Frank Shewmaker)
6. The ALS Association Research Grant
Title: Molecular Basis of FUS/TLS-related amyotrophic lateral sclerosis
Duration: 08/01/2011-07/30/2014
Role: PI
7. NINDS/NIH 1R21NS100055-01
Title: Molecular mechanisms of C9orf72 and Matrin 3 interaction in ALS
Duration: 04/01/2017 - 03/31/2019
Role: PI
8. NINDS/NIH 1R21NS094921-01
Title: Mechanisms of C9orf72-associated dipeptide toxicity
Duration: 08/15/2015 – 07/31/2019
Role: MPI (Pandey/Lamitina)
9. Muscular Dystrophy Association Research grant
Title "Identification of small molecule modifiers of FUS-mediated ALS"
Duration: 08/01/17- 07/31/2020
Role: PI
10. NINDS/NIH 1R21NS098379-01A1
Title: Nuclear export inhibition as a novel therapeutic target for C9ORF72 ALS/FTD
Duration: 08/01/2018 - 07/31/2020
Role: MPI (Pandey/Donnelly)

Seminars:

National:

07/06 Invited talk, Department of Neurology, University of Chicago Medical Center,
Chicago, IL (Host: Dr. Christopher Gomez)

11/06 Selected talk, 6th Annual Center for Neurodegenerative Disease Research Retreat, Philadelphia, PA

02/07 Invited speaker, Penn Neurological Institute, Pennsylvania hospital, Philadelphia, PA

03/07 Selected talk, 48th Annual Drosophila Research Conference of the Genetics Society of America, Philadelphia, PA,

05/07 Invited speaker, Drosophila-Philadelphia meeting at University of Pennsylvania Medical Center

11/07 Invited speaker and panel discussant, Kennedy's Diseases Association Meeting, Las Vegas, NA

12/08 Invited speaker, Department of Genetics, Louisiana State University Health Sciences Center (LSUHSC), New Orleans. LA

05/10 Invited speaker, Department of Physiology, LSUHSC, New Orleans, LA

03/11 Invited speaker, Packard Center for ALS at Johns Hopkins Medical Center, Baltimore, MD

05/11 Invited speaker, Department of Cell Biology and Anatomy at LSUHSC, New Orleans, LA

09/11 Invited speaker, Molecular Medicine Series, Department of Child Neurology, Children's Hospital of Pittsburgh, University of Pittsburgh Medical Center, Pittsburgh, PA

11/11 Selected talk, 6th Brain Research Conference on RNA binding proteins, Washington DC

12/11 Invited speaker, Packard meeting, Johns Hopkins Medical Center, Baltimore, MD

03/12 Invited speaker, Human Genetics Grand Round Series, Tulane University Medical Center, New Orleans, LA

03/12 Invited speaker, The Robert Packard Center for ALS research, Annual Symposium, Johns Hopkins Medical Center, Baltimore, MD

11/12 Selected talk, Molecular Neurodegeneration meeting, Cold Spring Harbor Laboratory, New York

01/13 Invited speaker, Department of Pharmacology, LSUHSC, New Orleans, LA

06/13 Invited panel discussant, Team Gleason meeting on ALS, New Orleans, LA

02/13 Invited speaker, The Robert Packard Center for ALS, Johns Hopkins Medical Center, Baltimore, MD

05/13 Invited speaker, Molecular Medicine Seminar Series, Department of Child Neurology, Children's Hospital of Pittsburgh, Pittsburgh, PA

06/13 Invited speaker, Department of Neuroscience, Mayo Clinic, Jacksonville, FL (Host: Dr. Leonard Petrucelli)

06/13 Invited speaker, Department of Neuroscience, Temple University, School of Medicine, Philadelphia, PA (Host: Dr. Kamel Khalili)

07/13 Invited speaker, The Robert Packard Center for ALS, Johns Hopkins Medical Center, Baltimore, MD

09/13 Invited speaker, Eastern Virginia Medical School, Department of Pathology and Anatomy, Norfolk, VA (Host: Dr. Earl Godfrey)

04/14 Invited talk, The Robert Packard Center for ALS research, Annual Symposium, Johns Hopkins Medical Center, Baltimore, MD

09/14 Invited speaker, The Robert Packard Center for ALS research, Johns Hopkins Medical Center, Baltimore, MD

10/14 Invited talk, Department of Pharmacology, Uniformed Services University of Health Sciences, Bethesda, DC (Host: Dr. Frank Shewmaker)

02/15 Invited talk, The Robert Packard Center 15th Annual ALS Research Symposium, Johns Hopkins Medical Center, Baltimore, MD

03/15 Invited speaker, Department of Pharmacology, Wayne State University School of Medicine, Detroit, MI (Host: Dr. Sokol Todi)

09/15 Invited speaker, Department of Biology, University of Dayton, Dayton, OH (Host: Dr. Amit Singh)

11/15 Invited speaker, Department of Veterinary Sciences, Iowa State University, Ames, IA (Dr. Ravindra Singh)

01/16 Invited speaker, Department of Neurology, Neuropathology division, University of Pittsburgh Medical Center, Pittsburgh PA (Host: Dr. Julia Kofler)

03/16 Invited speaker, the 16th Annual Robert Packard Center for ALS Research Symposium, Baltimore MD

04/16 Invited speaker, Department of Pathology, Case Western Reserve University, Cleveland, OH (Host: Dr. Xinglong Wang)

04/16 Invited speaker, Department of Neurology, University of Massachusetts, Worcester, MA (Host: Dr. Fen-Biao Gao)

07/16 Selected talk Annual Drosophila Research Conference, Orlando, FL

01/17 Invited talk, Packard Center for ALS at Johns Hopkins, Baltimore MD

01/17 Invited speaker, Pittsburgh Institute for Neurodegenerative Diseases (PIND), Pittsburgh PA (Host: Dr. Tim Greenamyre)

07/17 Selected talk, Gordon Research Conference on ALS and other motor neuron diseases, Stowe, Vermont

04/18 Selected talk, Annual Drosophila Research Conference, Philadelphia, PA

02/19 Invited speaker. Department of Pharmacology and Toxicology, University of Arkansas for Medical Sciences, Little Rock, AR (Host: Dr. Mahmoud Kiaei)

04/19 Invited speaker. Department of Biological Sciences, Southern Methodist University, Dallas, TX (Host: Dr. Santosh D'Mello)

04/19 Invited speaker, Department of Biology, Western Kentucky University, Bowling Green, KY (Host: Dr. Ajay Srivastava)

04/19 Invited speaker, John G Rangos Research Seminar Series, Children's Hospital of Pittsburgh, University of Pittsburgh Medical Center, Pittsburgh, PA

07/19 Invited speaker, Gordon Research Conference on ALS and related motor neuron diseases, Mount Snow, Vermont

09/19 Invited speaker, Department of Neurology, Northwestern University Medical Center, Chicago (Host: Dr. Evangelos Kiskinis)

09/19 Invited speaker, Department of Pediatrics, Emory University School of Medicine, Atlanta, GA

11/19 Invited speaker, 9th Annual Les Turner Symposium, Northwestern University, Feinberg School of Medicine (Host: Dr. Hande Ozdinler)

01/20 Invited speaker, Department of Neurology, Wayne State University, Detroit, MI (Host: Dr. Andrew Garrett)

04/20 Invited speaker, Department Molecular & Cellular Biochemistry, University of Kentucky College of Medicine, Lexington (Dr. Haining Zhu) Cancelled

04/21 Invited speaker, Department of Biomedical Sciences University of Minnesota Medical School (Host: Pedro Fernandez-Funez, PhD)

7/21 Invited speaker, Inaugural International Research Conference on Neurodegenerative Diseases (Virtual IRCND)

International:

05/11 Invited speaker, Molecular Mechanism of Neurodegeneration meeting in Milan, Italy (Host: Dr. Angelo Poletti)

09/13 Selected talk, Molecular Neurodegeneration Meeting: Basic Biology and disease pathways, Cannes, France

12/13 Selected talk, 24th International Symposium on ALS/MND in Milan, Italy
05/15 Invited speaker, VI Molecular Mechanism of Neurodegeneration meeting in Milan, Italy (Host: Dr. Angelo Poletti)
10/15 Invited speaker, XXXIII Annual Conference of Indian Academy of Neurosciences, Neuroscience Research from Mechanisms and Applications in Chandigarh, India
11/15 Invited speaker, Department of Biochemistry, Banaras Hindu University, Varanasi, India
05/16 Selected talk, 4th International Conference on Molecular Neurodegeneration, Seoul, South Korea
12/16 Selected talk, 27th International Symposium on ALS/MND Dublin, Ireland
06/17 Invited speaker and moderator, International Conference on Neurology and Stroke, Valencia, Spain
08/18 Selected talk, Gordon Research Conference on Brain Disorders, Barcelona, Spain
10/18 Invited speaker, International conference on neuroscience, Varanasi, India
09/19 Invited speaker, 18th National Congress of the Italian Society for Neuroscience
10/19 Invited speaker, Centre for Integrative Biology, University of Trento, Italy (Dr. Manuela Basso)
10/19 Invited speaker, Department of Biomedical Sciences, University of Padova, Italy (Host: Dr. Maria Pennuto)
06/20 Invited speaker, Institute of Psychiatry, Psychology and Neuroscience, Basic & Clinical Neuroscience, UK Dementia Research Institute at Kings College London. (Host: Dr. Marc-David Ruepp), postponed due to COVID-19 (rescheduling)
10/20 Invited speaker, 3rd International Conference on Neurovascular and Neurodegenerative Diseases, Paris, France: Cancelled due to COVID-19
12/20 Invited speaker, University College of London (UCL), IHA Virtual Symposium: Neurodegeneration in Flies (Host: Dr. Teresa Niccoli)

Editorial board/reviewer

2012- Academic Editor, PloS One
2016- Member, Editorial Board, Scientific Reports
2017- Member, Editorial Board, Brain Research
2017- Member, Editorial Board, Journal of Experimental Neuroscience
2019- Associate Editor, Frontiers in Genetics (Genetic disorders section)

Journal reviewer: Nature Genetics, Nature Neuroscience, Nature Communications, Neuron, EMBO J, Human Molecular Genetics, Acta Neuropathologica, Autophagy, Brain Research, Biophysical Journal, BBA-Molecular Basis of Disease, Current Genomics, Disease Models and Mechanisms, Experimental Neurology, EMBO Molecular Medicine, Experimental Biology and Medicine, FASEB Letters, Journal of Clinical Investigation, Journal of Neuroscience, Journal of Neuroscience Research, Journal of Neurochemistry, Molecular Neurodegeneration, Molecular Neurobiology, Nucleic Acid Research, Neuroscience Letters, Neurobiology of Aging, Neurodegenerative Diseases, Neurobiology of Diseases, Plos One, Plos Genetics, Progress in Neurobiology, Scientific reports, WIREs RNA

Service:

Grant Reviewer:

2010-2013 Research Enhancement Funds Committee (REF), LSUHSC
2010- Friedrich Ataxia Research Association reviewer panel
2011-12 The ALS Society of Canada reviewer panel

2011-13 Medical Research Council (MRC) reviewer panel, UK
2011- Motor Neuron Disease Association reviewer panel, UK
2012-13 European Research Council reviewer panel, UK
2012 - 18 Cellular and Molecular Neurodegeneration study section (CMND), NIH
2012 The Mayo Alzheimer's Disease Research Center pilot grants
2012 The Italian charity Telethon Foundation reviewer panel, Italy
2013 National Centre for the Replacement, Refinement and Reduction of Animals in Research (NC3Rs), reviewer panel
2013 Special Emphasis Panel, MDCN, NIH
2014-2015 Israel Science Foundation, reviewer panel
2014 Neurological Sciences and Disorders B (NSD-B) study section, NIH
2015- Chronic Dysfunction and Integrative Neurodegeneration (CDIN), NIH
2015 Medical Advisory Board, Muscular Dystrophy Association (MDA)
2015 Special Emphasis Panel, ZRG1 BDCN-W (03), NIH
2015 Molecular Neurogenetics (MNG) study section, NIH
2015 AFM-Telethon reviewer panel, France
2016 Neural Oxidative Metabolism, Mitochondria and cell Death (NOMD) study section, NIH
2016 Special Emphasis Panel, ZNS1 SRB-J (11), NIH
2016 The French National Research Agency (ANR) reviewer panel
2016- The National Ataxia Foundation reviewer panel
2017 Reviewer, NIH Director's New Innovator Award Program
2017-22 Member, Research Advisory Board, Muscular Dystrophy Association (MDA)
2017- Reviewer, Kennedy's disease Association (KDA)
2017 Special emphasis panel, ZRG1 MOSS-R (70) R
2018 Special emphasis panel, ZRG1 MDCN-E (03) M
2018- National Institutes on Minority Health and Health Disparities (NIMHD) panel
2019- Special emphasis panels, ZRG1 BCMB-N (50) R, ZRG1-BDCN-E-56 and NST-1 study section and several other NIH panels
2019 Amyotrophic lateral sclerosis (ALS) Association grant review panel
2019 Department of Defense, Neurological Disorders (ND) panel
2019 Department of Defense, Discovery neurological disorders (ND) panel
2019 Co-Chair, Department of Veteran Affairs, Neurobiology E (NURE) Merit Review Subcommittee
2020- Regular Member, Department of Veteran Affairs, Neurobiology E (NURE) Merit Review Subcommittee
2021 Served in multiple NIH panels, NST1, ZRG1-MDCN-R-03, ZRG1-CVRS-A-70 and ZRG1-BST-J-70
2021- Regular Member, Chronic Disease and Integrated Neurodegeneration (CDIN) study section

Conferences

2011

- Session Co-Chair, Drosophila models of human diseases, Annual Drosophila Research Conference, Chicago, IL

2015

- Session Chair, Annual Symposium, Packard Center for ALS at Johns Hopkins
- Session Co-Chair, Molecular Mechanisms of Neurodegeneration, Milan Italy

2016

- Session Chair, Annual Symposium, Packard Center for ALS at Johns Hopkins
- Session Chair, Brain Research Conference on Neurological Diseases, San Diego, CA

2017

- Session Chair, International Conference on Neurology and Stroke (INBC), Valencia, Spain

2018

- Session organizer, neurodegenerative diseases, Indian Society of Neuroscience, Varanasi, India
- Session Chair, Annual Symposium, Packard Center for ALS at Johns Hopkins

2019

- Session Chair, 18th National Congress of the Italian Society for Neuroscience, Padova, Italy