CURRICULUM VITAE
Sanjay I. Bidichandani, MBBS, PhD

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CITIZENSHIP United States of America

CURRENT POSITIONS

11/12 – present David L. Boren Professor of Pediatrics (tenured)
CMRI Claire Gordon Duncan Endowed Chair of Pediatric Medical Genetics
Section Head of Pediatric Genetics
University of Oklahoma College of Medicine

11/12 – present Adjunct Professor of Biochemistry & Molecular Biology
Member of the Oklahoma Center for Neuroscience
University of Oklahoma College of Medicine

EDUCATION

Year	University	Degree
1990	University of Pune, India	M.B.B.S. (M.D. equivalent)
1991	University of Glasgow, Scotland, U.K.	M.Sc. (Medical Genetics)
1994	University of Glasgow, Scotland, U.K.	Ph.D. (Medical Genetics)

PREVIOUS PROFESSIONAL APPOINTMENTS

Year	Institution	Position
05/89 – 05/90	University of Pune, India	Medical Intern
11/94 – 10/96	Baylor College of Medicine; Neurology	MDA Postdoctoral Fellow
10/98 – 01/00	Baylor College of Medicine	Master Teacher Fellow
11/96 – 12/97	Baylor College of Medicine; Neurology	Instructor
01/98 – 06/00	Baylor College of Medicine; Neurology	Research Assistant Professor
06/00 – 06/06	Univ of Oklahoma College of Medicine; Biochemistry & Molecular Biology	Assistant Professor (tenure-track)
06/00 – 06/11	Univ of Oklahoma College of Medicine; Pediatrics	Assistant Professor (adjunct)
07/06 – 06/11	Univ of Oklahoma College of Medicine; Biochemistry & Molecular Biology	Associate Professor (tenured)
01/08 – 08/10	Univ of Oklahoma College of Medicine	Course Director, Med. Biochemistry
01/08 – 12/10	Univ of Oklahoma College of Medicine	Course Director, Molecular Systems
07/09 – 01/11	Univ of Oklahoma College of Medicine	Assistant Dean (Curriculum)
08/10 – 11/12	Univ of Oklahoma College of Medicine; Biochemistry & Molecular Biology	Professor (tenured)
01/10 – 11/12	Muscular Dystrophy Association	Vice President for Research

HONORS AND AWARDS

1991 Glasgow University Distinction
1991 – 1994 Glasgow University Postgraduate Research Scholarship

1995 – 1997	Muscular Dystrophy Association Postdoctoral Fellowship
2000 – 2003	American Heart Association, Scientist Development Award
2004	Aesculapian award; Excellence in teaching [College of Medicine, Class of 2007]
2005	Panos Ioannou Memorial Prize, World Congress of Neurology [Australia]
2006	Aesculapian award; Excellence in teaching [College of Medicine, Class of 2009]
2006	William Koller Memorial Award, Movement Disorder Society [Kyoto, Japan]
2008 – 2010	Member of Medical Advisory Committee, Muscular Dystrophy Association
2008 – 2016	Editorial Board Member of *Mutation Research*
2008	Presented "Research Update" with Jerry Lewis on the National MDA Telethon
2008 – 2009	Treasurer, National Association of Medical Biochemistry Course Directors
2010	University of Oklahoma Board of Regents Award for Superior Teaching
2011	Aesculapian award; Excellence in teaching [College of Medicine, Class of 2014]
2012 – present	CMRI Claire Gordon Duncan Chair in Pediatric Medical Genetics
2012 – present	Member, Scientific Review Committee, Friedreich Ataxia Research Alliance
2013	Henry Turner Lectureship; University of Oklahoma College of Medicine
2013 – present	Academy of Teaching Scholars of OU College of Medicine
2014 – present	Member of Board of Directors (Scientific Director) and on the Executive Committee of the Board of Directors of the Friedreich Ataxia Research Alliance
2014 – present	Appointed as Honorary Guest Professor at Jilin University, Changchun, China
2015 – present	Member of the Research Advisory Committee, Muscular Dystrophy Association
2016 – present	Member of the Programmatic Panel, Congressionally Directed Medical Research Programs' Neurofibromatosis Program, Department of Defense
2016	Aesculapian award; Excellence in teaching [College of Medicine, Class of 2019]
2016 – present	David L. Boren Professorship, University of Oklahoma
2017	Stanton L. Young Master Teacher Award, OU College of Medicine

RESEARCH FUNDING

ACTIVE

R01 NS072418	Bidichandani (PI)	09/30/2010 - 08/31/2017
NIH/NINDS	Direct amount: $808,935	(no cost extension)

Title: RNA-induced transcriptional gene silencing in Friedreich ataxia

The goal of this project is to investigate the mechanism of epigenetic silencing of the *FXN* gene seen in patients with Friedreich ataxia.

MDA344862	Bidichandani (PI)	08/01/2015 - 07/31/2018
MDA	Direct amount: $300,000	

Title: Epigenetic silencing in Friedreich ataxia

The goal of this project is to investigate the mechanism of *FXN* transcriptional deficiency in Friedreich ataxia and to explore ways to reverse the epigenetic *FXN* promoter silencing.

BioMarin Pharmaceutical	Bidichandani (PI)	08/01/2017 - 07/31/2018
	Direct amount: $104,000	

Title: *FXN* DNA methylation as a biomarker for response to HDAC inhibitor treatment in Friedreich ataxia

The goal of this project is to test if the level of *FXN* DNA methylation level can predict response to next generation HDAC inhibitor treatment in Friedreich ataxia.

FARA	Bidichandani (PI)	12/01/2016 - 07/31/2018
	Direct amount: $129,972	

Title: Is *FXN* DNA methylation a determinant of response to HDAC inhibitor treatment in Friedreich ataxia?

The goal of this project is to test if the level of *FXN* DNA methylation level can predict response to HDAC inhibitor treatment in Friedreich ataxia. A substantial portion of the budget was dedicated to purchasing the Illumina miniseq high-throughput sequencer for methylation analysis.

COMPLETED / PAST RESEARCH FUNDING

1) Role: P.I. NIH / NINDS (R01 NS047596); "Properties and determinants of GAA repeat instability"; Direct Amount: $882,000 (01/01/2008 – 12/31/2013)
2) Role: P.I. NIH / NINDS (R01 NS047596); "Properties and determinants of GAA repeat instability"; Direct Amount: $740,000 (01/01/2004 – 12/31/2007)
3) Role: P.I. Muscular Dystrophy Association; "Somatic instability as a phenotype determinant in Friedreich ataxia"; Direct Amount: $217,365 (07/2007 – 06/2009)
4) Role: P.I. Muscular Dystrophy Association; "DNA repair and GAA triplet-repeat instability in Friedreich ataxia"; Direct Amount: $296,000 (07/2005 – 06/2008) + Supplement from Friedreich Ataxia Research Alliance (Direct Amount: $88,124)
5) Role: P.I. Oklahoma Center for the Advancement of Science and Technology (OCAST); "A genetic screen for functional frataxin mutants"; Direct Amount: $135,000 (07/2005 – 06/2008)
6) Role: Mentor; Postdoctoral Fellowship (Irene De Biase, MD, PhD), National Ataxia Foundation, "Somatic instability in Friedreich ataxia"; Direct amount: $49,651 (01/06 – 12/06)
7) Role: P.I. NSF-EPSCoR; "Dynamic control of gene expression by DNA repeat instability"; Direct Amount: $52,219 (04/01/05 - 12/31/05)
8) Mentor: Postdoctoral Fellowship (Gillian Dalgliesh, PhD), American Heart Association (Heartland affiliate), "Mutation analysis in Friedreich ataxia"; Direct amount: $80,685 (07/03 – 06/05)
9) Role: P.I. American Diabetes Association; "Role of frataxin gene mutations in the pathogenesis of diabetes mellitus"; Direct Amount: $261,659 (01/2002 – 12/2004)
10) Role: P.I. Oklahoma Center for the Advancement of Science and Technology (OCAST); "Mutation analysis in Friedreich ataxia"; Direct Amount: $135,000 (07/2001 – 06/2004)
11) Role: P.I. Muscular Dystrophy Association; "Properties and determinants of GAA triplet-repeat instability"; Direct Amount: $223,149 (01/2003 – 12/2005) (Returned after one year due to overlap with NIH/R01)
12) Role: P.I. American Heart Association (National); "Molecular biology of the GAA triplet repeat expansion in Friedreich ataxia"; Direct Amount: $236,190 (01/2000 – 12/2003)

PROFESSIONAL SOCIETIES

American Society of Human Genetics
Movement Disorders Society

REVIEW ACTIVITY

Grant reviews
1. Study section: NIH-NINDS / ZNS1 SRB-A 12, Clinical trial readiness for rare neurological and neuromuscular diseases - (U01) (PAR-16-020). Alexandria, VA; July 14, 2017
2. Study section: NIH / Genetics in Health and Disease (GHD) (2013)
3. Study section: Muscular Dystrophy Association (MAC) (Tucson, AZ; 2007 – 2010, 2013)
4. Study section: ZRG1 MDCN-N Molecular Mechanisms of Neurodegeneration (Teleconference; 2013)
5. Study Section (online review) ZRG1 GGG-F (58) NIH Research Challenge Grant Panel (2009)
6. Study section (NF/TSC review panel), Department of Defense, U.S. Army Medical Research, Neurofibromatosis/Tuberous Sclerosis, Congressionally Directed Medical Research Program, Washington, D.C. (2002 – 2006, 2008)
7. Study section: NIH / National Institute of Neurological Disorders and Stroke Special Emphasis

Panel ZNS1 SRB-E (23) (2007)
8. Study section (ad hoc): Muscular Dystrophy Association, 2008 Clinical Trials Committee (08STRIALS)
9. Study section (ad hoc / telephone review): Muscular Dystrophy Association, Clinical Research & Training Grant (2008-F CRTG)
10. Study section: PTSD Concept - Neurobiology / Genetics Panel, Department of Defense, U.S. Army Medical Research (2007)
11. Study section: PTSD-TBI Multidisciplinary Research Consortium Award, Department of Defense, U.S. Army Medical Research (Washington D.C., 2008)
12. Study section: NIH / NINDS special emphasis panel ZNS1 SRB-E, Washington, D.C. (2005)
13. Friedreich Ataxia Research Alliance (FARA) Scientific Review Committee (2004, 2005, 2007, 2009, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018)
14. Presbyterian Health Foundation, OUHSC (2004, 2005, 2015)
15. OU College of Medicine Alumni Association (2004, 2005)
16. Heartland Genetics and Newborn Screening Collaborative (2006)
17. Israel Science Foundation (2005)
18. Telethon Italia, project grants (1998, 1999, 2000)
19. Ataxia, U.K., project grants (2001, 2005, 2010, 2013, 2013, 2016)
20. Fundação para e Ciência e a Tecnologia, Portugal (2007)
21. Muscular Dystrophy Campaign, U.K. (2008)
22. Swiss National Science Foundation (2010)
23. KACST (Saudi Arabia) / AAAS grant reviews (2013, 2016)
24. Muscular Dystrophy Association Venture Philanthropy (MVP) (2013, 2015, 2016, 2017)
25. Muscular Dystrophy Association Bridge-to-Industry (B2I) postdoctoral fellowship program (2013)
26. Medical Research Council (MRC) U.K. – Research Grant Review (2014, 2015)
27. OSCTR at OUHSC – Research Grant Reviews (2015, 2016)
28. Muscular Dystrophy Association Clinical Research Network (CRNG) (2016, 2018)
29. Muscular Dystrophy Association – Research Grant Reviews (RAC) (2016, 2017)
30. Muscular Dystrophy Association – Infrastructure Grant Reviews (RAC) (2016, 2016)
31. Programmatic Panel, Congressionally Directed Medical Research Programs' Neurofibromatosis Program, Department of Defense (2015, 2016, 2017)
32. Brain Canada Hudson Translational Grant Competition (2016)

Journal article reviews (ad hoc)
1. Human Molecular Genetics (2001, 2002, 2007, 2010, 2013, 2013, 2014, 2017)
2. Journal of Biological Chemistry (2000, 2001)
3. Genomics (2000, 2003, 2004, 2005, 2015)
4. Human Genetics (2003)
5. Mutation Research (2005, 2006, 2010, 2011)
6. Journal of Molecular Biology (2006)
7. Nucleic Acids Research (2006, 2006, 2007, 2008, 2013)
8. PLoS Genetics (2006)
9. Human Biology (2006)
10. Nature Genetics (2007)
11. Annals of Neurology (2007, 2007, 2011, 2012)
12. Journal of Neuroscience Methods (2007)
13. BMC Medical Genetics (2007)
14. Molecular Genetics and Metabolism (2007, 2010)
15. Journal of Medical Genetics (2007, 2008)
16. Pharmacology and Therapeutics (2007)
17. Genome Research (2007, 2008)
18. Clinical Chemistry and Laboratory Medicine (2009)
19. Annals of Human Genetics (2009)

20. BMC Systems Biology (2009)
21. Nature Reviews Genetics (2010)
22. Proceedings of the National Academy of Sciences, USA (2010)
23. PLoS ONE (2011)
24. Journal of Neuroscience Research (2011)
25. Trends in Genetics (2012)
26. Gene (2013)
27. Neurological Sciences (2013)
28. Trends in Molecular Medicine (2013)
29. Journal of Proteome Research (2014)
30. DNA and Cell Biology (2014, 2015)
31. Journal of Biomolecular Screening (2015)
32. Disease Models & Mechanisms (2017)
33. Annals of Clinical and Translational Neurology (2017)

PEER-REVIEWED PUBLICATIONS

1. Bidichandani S.I., Lanyon W.G., Shiach C., Connor J.M. A novel splice donor mutation affecting position +3 in intron 6 of the factor VIII gene. **Hum. Mol. Genet.** 3:561-563 (1994).

2. Bidichandani S.I., Lanyon W.G., Connor J.M. Characterization of a 5 bp deletion in exon 4 of the factor VIII gene: Concordance with slipped-mispairing at DNA replication. **Hum. Genet.** 94:447-449 (1994).

3. Tuddenham E.G.D., Schwaab R., Seehafer J., Millaar D.S., Gitschier J., Higuchi M., Bidichandani S.I., Connor J.M., Hoyer L.W., Yoshioka A., Peake I.R., Olek K., Kazazian H.H., Lavergne J.M., Gianelli F., Antonarakis S.E., Cooper D.N. Haemophilia A: Database of nucleotide substitutions, deletions, insertions and rearrangements of the factor VIII gene; Second edition. **Nucleic Acids Res.** 22:4851-4868 (1994). PMCID:PMC308545

4. Bidichandani S.I., Lanyon W.G., Shiach C.R., Lowe G.D.O., Connor J.M. Detection of mutations in ectopic factor VIII transcripts from nine haemophilia A patients and the correlation with phenotype. **Hum. Genet.** 95:531-538 (1995).

5. Alexander Y.M., Bidichandani S.I., Cousins F.M., Robinson C.J., Duffie E., Akhurst R.J. Circulating human factor IX produced in keratin-promoter transgenic mice: a feasibility study for the gene therapy of Haemophilia B. **Hum. Mol. Genet.** 4:993-999 (1995).

6. Campuzano V., Montermini L., Moltò M.D., Pianese L., Cossée M., Cavalcanti F., Monrós E., Rodius F., Duclos F., Monticelli A., Zara F., Cañizares J., Koutnikova H., Bidichandani S.I., Gellera C., Brice A., Trouillas P., De Michele G., Filla A., De Frutos R., Palau F., Patel P.I., Di Donato S., Mandel J.L., Cocozza S., Koenig M., Pandolfo, M. Friedreich's ataxia: Autosomal recessive disease caused by an intronic GAA triplet repeat expansion. **Science** 271:1423-1427 (1996).

7. Cossée M., Campuzano V., Koutnikova H., Fischbeck K., Mandel J-L, Koenig M., Bidichandani S.I., Patel P.I., Moltó M.D., Cañizares J., De Frutos R., Pianese L., Cavalcanti F., Monticelli A., Cocozza S., Montermini L., Pandolfo M. Frataxin fracas. **Nature Genet.** 15:337-338 (1997).

8. Yang P.S., Bidichandani S.I., Figuera L.E., Juyal R.C., Saxon P.J., Baldini A., Patel P.I. Molecular analysis of del(17)(p11.2) in a family segregating a 17p paracentric inversion: Implications for carriers of paracentric inversions. **Am. J. Hum. Genet.** 60:1184-1193 (1997). PMCID:PMC1712444

9. Bidichandani S.I., Ashizawa T., Patel, P.I. Atypical Friedreich ataxia caused by compound heterozygosity for a novel missense mutation and the GAA triplet repeat expansion. **Am. J. Hum. Genet.** 60:1251-1256 (1997). PMCID:PMC1712428

10. Bidichandani S.I., Ashizawa T., Patel P.I. The GAA triplet repeat expansion in Friedreich ataxia interferes with transcription and may be associated with an unusual DNA structure. **Am. J. Hum. Genet.** 62:111-121 (1998). PMCID:PMC1376805

11. Machkhas H.M., Bidichandani S.I., Patel P.I., Harati Y. A mild case of Friedreich ataxia: Examination of GAA repeat length in lymphocytes and sural nerve reveals somatic mosaicism. **Muscle Nerve** 21:390-393 (1998).

12. Bidichandani S.I., Purandare S.M., Taylor E.E., Machkhas H., Harati Y., Gibbs R.A., Ashizawa T., Patel P.I. Somatic sequence variation in Friedreich ataxia includes complete contraction of the expanded GAA trinucleotide repeat, significant length variation in serially passaged lymphoblasts, and enhanced mutagenesis in the flanking sequence. **Hum. Mol. Genet.** 8:2425-2436 (1999).

13. Bidichandani S.I., Garcia C., Patel P.I., Dimachkie M. Very late onset Friedreich ataxia despite large triplet repeat expansions. **Arch. Neurol.** 57:246-251 (2000).

14. Désarnaud F., Bidichandani S.I., Patel P.I., Baulieu E-E., Schumacher M. Glucocorticoids stimulate the activity of the promoters of peripheral myelin protein-22 and protein zero genes in Schwann cells. **Brain Research** 865:12-16 (2000).

15. Hai M., Bidichandani S.I., Patel P.I. Identification of a positive regulatory element in the myelin-specific promoter of the *PMP22* gene. **J. Neurosci. Res.** 65:508-519 (2001).

16. Hai M.,* Bidichandani S.I.,* Hogan M.E., Patel P.I. [*equal contribution] Competitive binding of triplex forming oligonucleotides in the two alternate promoters of the *PMP22* gene. **Antisense Nucleic Acid Drug Dev.** 11:233-246 (2001).

17. Sharma R., Bhatti S., Gómez M., Clark R., Murray C., Ashizawa T., and Bidichandani S.I. The GAA triplet-repeat sequence in Friedreich ataxia shows a high level of somatic instability *in vivo* with a significant predilection for large contractions. **Hum. Mol. Genet.** 11:2175-2187 (2002).

18. Clark R.M., Dalgliesh G.L., Endres D., Gómez M., Taylor J., and Bidichandani S.I. Expansion of GAA triplet-repeats in the human genome: Unique origin of the *FRDA* mutation at the center of an *Alu*. **Genomics** 83:373-383 (2004) [featured on the cover]

19. Potaman V.N., Oussatcheva E.A., Lyubchenko Y.L., Shlyakhtenko L.S., Bidichandani S.I., Ashizawa T., Sinden R.R. Length-dependent structure formation in Friedreich's ataxia $(GAA)_n$•$(TTC)_n$ repeats at neutral pH. **Nucleic Acids Res.** 32:1224-1231 (2004). PMCID:PMC373408

20. Gómez M., Nath S.K., Clark R.M., Bhatti S., Sharma R., Alonzo E., Rasmussen A. and Bidichandani S.I. Genetic admixture of European *FRDA* genes is the cause of Friedreich ataxia in the Mexican population. **Genomics** 84:779-784 (2004) [featured on the cover]

21. Pollard L.M., Sharma R., Gómez M., Shah S., Delatycki M., Pianese L., Monticelli A., Keats B., and Bidichandani S.I. Replication mediated instability of the GAA triplet repeat mutation in Friedreich ataxia. **Nucleic Acids Res.,** 32:5962-5971 (2004). PMCID:PMC2077434

22. Sharma R., Gómez M., De Biase I., Ashizawa T., Bidichandani S.I. Friedreich ataxia in carriers of

somatically unstable borderline GAA repeat alleles. **Ann. Neurol.** 56:898-901 (2004).

23. Clark R.M., Bhaskar S.S., Miyahara M., Dalgliesh G.L., Bidichandani S.I. Expansion of GAA trinucleotide repeats in mammals. **Genomics**, 87:57-67 (2006).

24. Rasmussen A., Gómez M., Alonso E., Bidichandani S.I. Clinical heterogeneity of recessive ataxia in the Mexican population. **J. Neurol. Neurosurg. Psychiatry**, 77:1370-1372 (2006). PMCID:PMC2077434

25. Rindler P.M., Clark R.M., Pollard L.M., De Biase I., Bidichandani S.I. Replication in mammalian cells recapitulates the locus-specific differences seen in GAA triplet-repeat instability. **Nucleic Acids Res.** 34:6352-6361 (2006). PMCID:PMC1669776

26. Clark R.M., De Biase I., Malykhina A., Al-Mahdawi S., Pook M., Bidichandani S.I. The GAA triplet-repeat is unstable in the context of the human *FXN* locus and displays age-dependent expansions in cerebellum and DRG in a transgenic mouse model. **Hum. Genet.** 120:633-640 (2007).

27. De Biase I., Rasmussen A., Endres D., Al-Mahdawi S., Monticelli A., Cocozza S., Pook M., Bidichandani S.I. Progressive GAA expansions in dorsal root ganglia of Friedreich ataxia patients. **Ann. Neurol.** 61:55-60 (2007).

28. Rasmussen A., Martínez-Ruano L., Mader C., Ochoa A., Yescas P., De Biase I., Gutiérrez R., Caudle M., Ruano L., Fragoso-Benítez M., Ashizawa T., Bidichandani S.I., Alonso-Vilatela M.E. Distinct distribution of autosomal dominant spinocerebellar ataxia in the Mexican population. **Mov. Disord.,** 22:1050-1053 (2007).

29. De Biase I., Rasmussen A., Monticelli A., Al-Mahdawi S., Pook M., Cocozza S., Bidichandani S.I. Somatic instability of the expanded GAA triplet-repeat sequence in Friedreich ataxia progresses throughout life. **Genomics**, 90:1-5 (2007).

30. Rasmussen A., De Biase I., Fragoso-Benitez M, Ashizawa T., Alonso M. E., Bidichandani S.I. Anticipation and intergenerational repeat instability in SCA17. **Ann. Neurol.**, 61:607-610 (2007).

31. Pollard L.M., Chutake Y., Rindler P.M., Bidichandani S.I. Deficiency of RecA-dependent RecFOR and RecBCD pathways causes increased instability of the $(GAA•TTC)_n$ sequence when GAA is the lagging strand template. **Nucleic Acids Res.**, 35:6884-6894 (2007). PMCID:PMC2175318

32. Zakhary G.M., Clark R.M., Bidichandani S.I., Owen W.L., Slayton R.L., Levine M. Acidic proline-rich protein Db and caries in young children. **J. Dent. Res.** 86:1176-1180 (2007).

33. Pollard L.M., Bourn R., Bidichandani S.I. Repair of double-strand breaks within the repeat tract enhances instability of the $(GAA•TTC)_n$ sequence. **Nucleic Acids Res.**, 36:489-500 (2008). PMCID:PMC2241870

34. Bourn R.L., Rindler P.M., Pollard L.M., Bidichandani S.I. *E. coli* mismatch repair acts downstream of replication fork stalling to stabilize the expanded (GAA•TTC)n sequence. **Mutat. Res.** 661:71-77 (2009). PMCID:PMC2637364

35. De Biase I., Chutake Y., Rindler P.M., Bidichandani S.I. Epigenetic Silencing in Friedreich Ataxia is Associated with Depletion of CTCF (CCCTC-binding factor) and Antisense Transcription. **PLoS ONE***,* 4(11):e7914 (2009). PMCID:PMC2780319

36. Rasmussen A., Ochoa A., De Biase I., Yescas P., Sosa A.L., Rodríguez Y., Chávez M., López M.,

Alonso E., Bidichandani S.I. Uptake of genetic testing and long-term tumor surveillance in von Hippel-Lindau disease. **BMC Med. Genet.**, 11:4 (2010). PMCID:PMC2822817

37. Rindler P.M. and Bidichandani S.I. Role of transcript and interplay between transcription and replication in triplet-repeat instability in mammalian cells. **Nucleic Acids Res.**, 39:526-535 (2011). PMCID:PMC3025579

38. Bourn R.L., De Biase I., Pinto R.M., Sandi C., Al-Mahdawi S., Pook M.A., Bidichandani S.I. Pms2 suppresses large expansions of the (GAA•TTC)n sequence in the nervous system. **PLoS One** 7(10):e47085 (2012). PMCID:PMC3469490

39. Chad DA, Bidichandani SI, Bruijn L, Capra DJ, Dickie B, Ferguson J, Figlewicz D, Forsythe M, Kaufmann P, Kirshner A, Monti W. (2013) Funding Agencies and Disease Organizations: Resources and Recommendations to Facilitate ALS Clinical Research in North America. **Amyotrophic Lateral Sclerosis** 14:62–66 (2013). PMC Journal – In Process.

40. Chutake YK, Costello WN, Lam C, Bidichandani SI. Altered Nucleosome Positioning at the Transcription Start Site and Deficient Transcriptional Initiation in Friedreich Ataxia. **J. Biol. Chem.** 289:15194–15202 (2014). PMCID:PMC4140879

41. Chutake YK, Lam C, Costello WN, Anderson M, Bidichandani SI. Epigenetic Promoter Silencing in Friedreich Ataxia is Dependent on Repeat Length. **Ann. Neurol.** 76:522–528 (2014). doi: 10.1002/ana.24249. PMCID:PMC4191993

42. Chutake YK, Costello WN, Lam C, Parikh AC, Hughes T, Michalopulos M, Pook MA, and Bidichandani SI. *FXN* promoter silencing in the humanized mouse model of Friedreich ataxia. **PLoS ONE** 10(9): e0138437 (2015). PMCID:PMC4579136

43. Chutake YK, Lam C, Costello WN, Anderson M, Bidichandani SI. Reversal of epigenetic promoter silencing in Friedreich ataxia by a class I histone deacetylase inhibitor. **Nucleic Acids Res.** (2016) doi: 10.1093/nar/gkw107; PubMed PMCID: PMC4914082

REVIEW ARTICLES AND BOOK CHAPTERS

1. Bidichandani S.I. and Patel P.I. (1996) The impact of advances in molecular genetics on inherited disorders of the nervous system. In *Current Neurology* (16th Ed.) Appel, S.H., ed., pp. 1-63. Mosby, St. Louis.

2. Bidichandani S.I. (1999) The Second International Conference on Unstable Microsatellites and Human Disease: A Meeting Review. *Generations* Fall issue.

3. Bidichandani S.I. (2000) A model system to study the instability of the GAA triplet repeat expansion in Friedreich Ataxia *Generations* Fall issue.

4. Hern L.M. and Bidichandani S.I. (2004) What Mendel did not discover: Exceptions in Mendelian genetics and their role in inherited human disease. *J. Okla State Med. Assoc.* 97:12-17.

5. Gomes-Pereira M, Bidichandani S.I., Monckton D.G. Analysis of unstable triplet repeats using small pool polymerase reaction. (2004) Methods in Molecular Biology, vol. 227, pp. 61 – 76, Ed. Kohwi Y. Humana Press Inc. Totowa, New Jersey

6. De Biase I., Rasmussen A., Bidichandani S.I. Evolution and Instability of the GAA Triplet-Repeat

Sequence in Friedreich ataxia (2006), in "Genetic Instabilities and Hereditary Neurological Diseases", pp. 305 – 319; Ed. R. D. Wells & T. Ashizawa. Elsevier-Academic Press, San Diego.

7. Rasmussen A. and Bidichandani S.I. (2009). "Spinocerebellar Ataxia type 10 (SCA10)" In: Encyclopedia of movement disorders". Ed. Christopher Goetz. Elsevier, San Diego

8. Bidichandani S.I. Genetic and Molecular Mechanisms of the Ataxias. In: *Journal of Rare Disorders* Vol. 4, Issue 1, pp 10-13.

9. Bidichandani SI, *Editor* of the Friedreich Ataxia entry on the website of the National Organization of Rare Disorders [NORD] (http://rarediseases.org/rare-diseases/friedreichs-ataxia/), 2015-present [updated January 12, 2018]

10. Friedreich Ataxia. GeneReviews updated June 1, 2017; Bidichandani SI, Delatycki MB. In: Pagon RA, Adam MP, Ardinger HH, et al., editors. GeneReviews®: University of Washington, Seattle; 1993-2018. https://www.ncbi.nlm.nih.gov/books/NBK1281/)

INVITED LECTURES AND PRESENTATIONS

1. "Non-paternity in the West of Scotland" British Clinical Molecular Genetics Society Meeting, Glasgow, 1991.
2. "Genetic basis of Hemophilia A" Glasgow Hemophilia Society Meeting. Royal Hospital for Sick Children, Glasgow, 1992.
3. "Mutation analysis in Hemophilia A" Leeds University Seminar. St. James' University Hospital, Leeds, England, 1994.
4. "Oligonucleotide synthesis and uses" University of Glasgow Medical Genetics Program, 1994.
5. "PCR-mediated gene manipulation" University of Glasgow Medical Genetics Program, 1994.
6. "The PCR Revolution" Duncan Guthrie Institute of Medical Genetics, Glasgow, 1994.
7. "Triplex-mediated modulation of *PMP22* gene expression: A potential therapeutic approach for inherited peripheral neuropathies" American Society of Human Genetics Meeting, Minneapolis, MN, 10/95 (*Am. J. Hum. Genet.* 57:222, 1995).
8. "Transcriptional suppression in Friedreich ataxia: consequences of the intronic GAA triplet repeat expansion" American Society of Human Genetics Meeting, San Francisco, CA, 10/96 (*Am. J. Hum. Genet.* 59:A48, 1996).
9. "TFO-mediated modulation of *PMP22* promoter function" Muscular Dystrophy Association Annual Meeting, San Francisco, CA, 10/96.
10. "Atypical Friedreich ataxia caused by compound heterozygosity for a novel missense mutation and the GAA triplet repeat expansion" Cambridge Symposium on Unstable triplet repeats, microsatellites and human disease, Santa Fe, NM, 4/97.
11. "Molecular basis of Friedreich ataxia" Mexican Society of Human Genetics, Guadalajara, Mexico 10/97.
12. "Transcriptional suppression in Friedreich ataxia: consequences of the intronic GAA triplet repeat expansion" American Society of Human Genetics Meeting, Baltimore, MD, 11/97 (*Am. J. Hum. Genet.* 61:130, 1997).
13. "Somatic sequence variation at the Friedreich ataxia locus" 2nd International Conference on Unstable Microsatellites and Human Disease. University of North Carolina, Chapel Hill, 4/99.
14. "Somatic sequence variation at the Friedreich ataxia locus" Friedreich Ataxia Research Conference, NIH / NINDS, Bethesda, MD, 4/99.
15. "Molecular genetics of Friedreich ataxia" Life Sciences Consortium Seminar at Penn State University College of Medicine, Hershey, PA, 4/99.
16. "Molecular genetics of Friedreich ataxia" Department of Biology, University of North Carolina, Greensboro, NC, 2/2000.
17. "Molecular genetics of Friedreich ataxia" Department of Biochemistry and Molecular Biology,

University of Oklahoma Health Sciences Center, Oklahoma City, OK, 2/2000.

18. "Molecular genetics of Friedreich ataxia" Oregon Health Sciences University, CROET, Portland, OR, 2/2000
19. "Molecular genetics of Friedreich ataxia" Department of Biochemistry, Finch University / Chicago Medical School, Chicago, IL, 3/2000
20. "Molecular genetics of Friedreich ataxia" Genomics Division, Janssen-Cilag Research Foundation (Johnson & Johnson), Beerse, Belgium, 3/2000
21. "Molecular genetics of Friedreich ataxia" Life Sciences Division, University of Texas at San Antonio, TX, 4/2000
22. "Molecular genetics of Friedreich ataxia" Department of Medical Genetics, University of Glasgow, Scotland, U.K., 7/2000
23. "The human genome project and the brain" "Neuronight" sponsored by the Oklahoma Center for Neuroscience, Westminster Presbyterian Church, Oklahoma City, 10/2000
24. "The Inherited Ataxias" Department of Pediatrics, Pediatrics Residency Training Program, University of Oklahoma Health Sciences Center, Oklahoma City, 11/2000
25. "DNA! DNA! DNA!….The inherited ataxias and repeating DNA" Grand Rounds, Department of Pediatrics, University of Oklahoma Health Sciences Center, Oklahoma City, 11/2000
26. "Introductory genetics and modes of inheritance" Board review course, Obstetrics & Gynecology Residency Training Program, University of Oklahoma Health Sciences Center, Oklahoma City, 5/2002
27. "Expansion of GAA triplet-repeats in the human genome: Unique origin of the GAA triplet-repeat sequence responsible for Friedreich ataxia at the center of an Alu element", Second FARA / NINDS International Friedreich ataxia Conference, NIH, Bethesda, 2/2003
28. "The GAA triplet-repeat sequence in Friedreich ataxia: Instability and evolution of a dynamic mutation", Department of Biochemistry and Molecular Biology seminar series, OUHSC, OK, 4/2003
29. "Theoretical and observed frequencies of GAA triplet-repeats in the human genome", Quantitative and Analytic Genetics Club of Oklahoma (QAGCO), OUHSC, OK, 4/2003
30. "Role of genes in brain disease" "Neuronight: Viruses, Genes and the Brain" sponsored by the Oklahoma Center for Neuroscience, Westminster Presbyterian Church, Oklahoma City, 11/2003
31. "G/A islands, G/A microsatellites: evolution of the longest microsatellite repeats in the primate genome" Workshop presentation at the 4th International conference on Unstable Microsatellites and Human Disease, Banff, Canada, 3/2004
32. "DNA expansions and human disease" Northeastern State University of Oklahoma, Department of Biology: Science and Technology seminar series, Tahlequah, OK, 3/2004
33. "Frataxin mutations and diabetes" First Oklahoma Diabetes Retreat, Downtown public library, Oklahoma City, OK, 10/2004
34. "Friedreich ataxia: consequences of a dynamic mutation" Neurology Grand Rounds at the National Institute of Neurology & Neurosurgery, Mexico City, Mexico, 11/2004
35. "GAA triplet-repeat instability and its implications for Friedreich ataxia" Seminar in the Department of Neurogenetics at the National Institute of Neurology & Neurosurgery, Mexico City, Mexico, 11/2004
36. "Expansion and evolution of GAA Triplet-Repeats in Mammals". Invited oral presentation at the Annual Symposium of the Oklahoma Bioinformatics Society (OKBIOS); Stephenson Research & Technology Center, University of Oklahoma, Norman, Oklahoma, 11/2004
37. "The dynamic GAA triplet-repeat mutation in Friedreich ataxia". Seminar at University of Naples Federico II, Naples, Italy, 03/2005
38. "The dynamic GAA triplet-repeat mutation in Friedreich ataxia". Seminar at Brunel University, London, U.K., 10/2005
39. "Age-dependent and tissue-specific somatic instability in Friedreich ataxia". Ataxia 2005/World Congress of Neurology, Brisbane, Australia, 11/2005. ****** *Winner of prize for best oral presentation*.
40. "Somatic instability in Friedreich ataxia progresses throughout life and includes large, age-dependent expansions in dorsal root ganglia" ASBMB Symposium: DNA Structure, Genomic

Rearrangements and Human Disease, Houston, TX, March 12-14, 2006

41. "Somatic instability of the GAA triplet-repeat sequence and pathogenesis of Friedreich ataxia". Seminar in the department of Medical Genetics, Shizuoka Cancer Center, Shizuoka, Japan, June 16, 2006
42. "The potential role of somatic instability of the GAA triplet-repeat in phenotypic expression of Friedreich ataxia". 3rd International FARA/NIH Scientific Meeting, National Institutes of Health, Bethesda, MD, November 10 – 12, 2006.
43. "Somatic instability as a phenotypic determinant in Friedreich ataxia". 5th International Conference on Unstable Microsatellites and Human Disease, Granada, Spain, November 11 - 16, 2006
44. "Replication in mammalian cells recapitulates the locus-specific differences in somatic instability of genomic GAA triplet-repeats". 5th International Conference on Unstable Microsatellites and Human Disease, Granada, Spain, November 11 - 16, 2006
45. "The dynamic mutation in Friedreich ataxia: a paradigm for progressive neurodegenerative disease caused by triplet-repeat expansions". Invited symposium presentation at the XXXII National Congress of the Mexican Society of Human Genetics, Oaxaca, Mexico, November 7 – 11, 2007.
46. "The dynamic mutation in Friedreich ataxia: Is DNA instability related to pathogenesis?" Physiology Seminar Series, University of Oklahoma Health Sciences Center. December 6, 2007.
47. "The dynamic mutation in Friedreich ataxia: Is somatic instability related to pathogenesis?" National Ataxia Foundation "AIM" conference. Las Vegas, NV, March 27, 2008.
48. "Integration of medical genetics in medical biochemistry courses" First national meeting of Association of Medical Biochemistry Course Directors (ABCD). Myrtle Beach, SC, April 28. 2008.
49. "Epigenetic changes in Friedreich ataxia are associated with altered CTCF binding in the FXN gene" American Society of Human Genetics Meeting, Philadelphia, PA, 11/2008
50. "DNA repeat expansions and human disease" High School Teacher's Training meeting, Oklahoma City Community College, Oklahoma City, 1/8/2009
51. "CTCF depletion, antisense transcription, and heterochromatin formation in Friedreich ataxia", 6th International Conference on Unstable Microsatellites and Human Disease; Guanacaste, Costa Rica; 1/18/2009
52. "Friedreich ataxia: State of the Science", Muscular Dystrophy Association Clinic Director's meeting; Las Vegas, NV; 1/27/2009.
53. "Friedreich ataxia: A genetic mutation with epigenetic consequences", Invited Seminar, Noble Research Center, Department of Biochemistry & Molecular Biology Oklahoma State University, Stillwater, OK; 2/13/09.
54. "The Inherited Ataxias" Department of Pediatrics, Pediatrics Residency Training Program, University of Oklahoma Health Sciences Center, Oklahoma City, 2/19/2009.
55. "Friedreich ataxia: Triplet repeat expansion and epigenetic defect", Keynote Address at From Genetics to Genomics – Workshop of the Mexican Society of Human Genetics. Morelia, Michoacán, Mexico (Feb 26 – 29, 2009).
56. "Early Attempts at Integrating Biochemistry into a Clinically Oriented Curriculum" Medical Biochemistry Education Strategies Workshop; Association of Biochemistry Course Directors (ABCD) and the Association of Medical & Graduate Departments of Biochemistry (AMGDB); Myrtle Beach, SC (April 25 - 29, 2009).
57. "Recessive Ataxias" Department of Neurology, Neurology Residency Training Program, University of Oklahoma Health Sciences Center, Oklahoma City, 6/3/2009.
58. "Friedreich ataxia: An epigenetic disease" Oklahoma Center for Neuroscience, University of Oklahoma Health Sciences Center, Oklahoma City, 11/6/2009.
59. "The epigenetic defect in Friedreich ataxia" Center for Neural Development and Disease, University of Rochester, Rochester NY, 11/11/2009
60. "The epigenetic defect in Friedreich ataxia" Department of Biochemistry, Tulane University, New Orleans LA, 11/16/2009
61. "Inherited Ataxias" Department of Neurology, Neurology Residency Training Program, University of Oklahoma Health Sciences Center, Oklahoma City, 11/25/2009.

62. "The epigenetic defect in Friedreich ataxia" Department of Microbiology and Molecular Cell Biology, Oral Roberts University, Tulsa OK, 11/23/2009.
63. "Genes & Movement Disorders" at Neuronight, sponsored by the Oklahoma Center for Neuroscience, The Fountains at Canterbury, Oklahoma City, 5/18/2010.
64. "The epigenetic defect in Friedreich ataxia" Plenary Talk at the European Biotechnology Congress, Istanbul, Turkey, 9/28/11.
65. "The New Brave New World" Department of Pediatrics, University of Oklahoma Health Sciences Center, Oklahoma City, OK, 2/22/12.
66. "ABCs of Human Genetics" Muscular Dystrophy Association National Clinical Conference, Las Vegas, NV, 3/5/12.
67. "Transcriptional Gene Silencing of the *FXN* gene in Friedreich Ataxia." Invited talk at the 7th International Conference on Unstable Microsatellites and Human Disease, Strasbourg, France, June 9-14, 2012.
68. "Transcriptional Gene Silencing of the *FXN* gene in Friedreich Ataxia." Invited talk at the 62nd annual meeting of the American Society of Human Genetics, which will be held in San Francisco, November 6-10. **Yogesh Chutake, PhD was selected as a semifinalist for the 2012 Charles J. Epstein Trainee Awards for Excellence in Human Genetics Research.
69. "Transcriptional Gene Silencing of the *FXN* gene in Friedreich Ataxia." Invited talk at the Ataxia UK Conference, London, UK, November 1-3, 2012.
70. "The Epigenetic Defect in Friedreich Ataxia." Invited talk at the 38th Annual Conference of the Indian Society of Human Genetics, BHU - Varanasi, India, December 9-11, 2012.
71. "Development of Targeted Therapies for Rare & Genetic Diseases: The New "Brave New World." *Henry Turner Lecture* Department of Internal Medicine, University of Oklahoma College of Medicine, Oklahoma City, February 13, 2013.
72. "Trends in Development of Targeted Therapies for Genetic Diseases" Pediatrics Grand Rounds April 10, 2013.
73. "Transcriptional deficiency in Friedreich ataxia is associated with spread of repressive chromatin to the *FXN* gene promoter" Invited talk at the Murdoch Children's Research Institute, University of Melbourne, Australia, June 13, 2013.
74. "Trends in Development of Targeted Therapies for Genetic Diseases" Invited talk at the Murdoch Children's Research Institute, University of Melbourne, Australia, June 13, 2013.
75. "The Seven Habits of Highly Successful People in the Biomedical Sciences" Keynote address at the OUHSC Summer Undergraduate Research Program luncheon and awards presentation, Oklahoma City, OK, July 19, 2013.
76. "Opportunities for rational drug development in Friedreich ataxia" at a symposium jointly hosted by the Friedreich Ataxia Research Alliance (FARA) & Pfizer; CHOP/PENN, Philadelphia PA, October 21, 2013.
77. "Opportunities for rational drug development in Friedreich ataxia" at a symposium jointly hosted by the Friedreich Ataxia Research Alliance (FARA) & Novartis; Cambridge MA, December 11, 2013.
78. "The Epigenetic Defect in Friedreich Ataxia" at the 5th World DNA and Genome Day Conference in Dalian, China, April 25-28, 2014.
79. "Development of Targeted Therapies for Genetic Diseases", invited seminar at First Hospital of Jilin University, Changchun, China. July 15, 2014.
80. "Translating Research into Therapies," featured speaker at the MDA *Uncork the Cure* gala event, that raised $300,000 for neuromuscular disease research (Dallas, TX; 11/6/2014)
81. Lecture entitled "Treating the Untreatable" at the general assembly of the Oklahoma School of Math and Sciences (11/19/2014).
82. "A Histone Deacetylase Inhibitor Reverses Promoter Silencing in Friedreich Ataxia" at the Conference on Unstable Microsatellites & Human Disease in Guanacaste, Costa Rica (Jan 17-22, 2015).
83. "Making Effective Oral Presentations" Workshop Presentation at the GREAT symposium, OUHSC (March 5, 2015)
84. "HDAC Inhibitor Reverses Promoter Silencing in Friedreich ataxia" TRENDS seminar, Oklahoma

Center for Neuroscience, OUHSC (March 9, 2015)

85. "Reversal of Epigenetic Promoter Silencing in Friedreich Ataxia" at the MDA National Scientific Conference on Neuromuscular Diseases, Washington DC (March 11-14, 2015).
86. "Reversal of Epigenetic Promoter Silencing in Friedreich Ataxia" at the International Ataxia Research Conference, Windsor, England (March 25-28, 2015).
87. "Development of Rational Therapies for Neurogenetic Diseases" Neurology Grand Rounds, OUHSC, April 7, 2015.
88. "The epigenetic defect in Friedreich ataxia" (Plenary presentation) at the International Congress on Friedreich Ataxia, New Delhi, India (April 11, 2015).
89. "Reversal of Epigenetic Promoter Silencing in Friedreich Ataxia" at the 6th World DNA and Genome Day Conference in Nanjing, China (April 25-28, 2015).
90. "Epigenetic Promoter Silencing in Friedreich ataxia" Invited Seminar in the Department of Chemistry at the South Dakota School of Mines and Technology, Rapid City, SD (May 12, 2015).
91. "Reversal of Epigenetic Promoter Silencing in Friedreich Ataxia" Invited Seminar at BioMarin Pharmaceutical, Novato, California (June 8, 2015).
92. "Therapeutic Pipelines for Friedreich ataxia," FARA and USF Health Scientific Symposium on Friedreich ataxia, September 17, 2015 at the University of South Florida Marshall Center Ballroom, Tampa, FL [http://www.ustream.tv/channel/curefa]
93. "The Epigenetic Defect in Friedreich Ataxia" in the Frontiers in Pediatric Research seminar series at the University of Iowa Children's Hospital, Iowa City, October 26, 2015.
94. "Making Effective Oral Presentations" Workshop Presentation at the GREAT symposium, OUHSC (February 17, 2016).
95. "The Epigenetic Defect in Friedreich Ataxia" in the Killam seminar series at the Montreal Neurological Institute, McGill University, Montreal, Canada, March 15, 2016.
96. "Epigenetic Promoter Silencing in Friedreich Ataxia" at the International Congress of Genetics in Dalian, China (April 25-28, 2016).
97. "Epigenetic defect in Friedreich's ataxia" in the Ninth Annual Friedreich's Ataxia Symposium at the Children's Hospital of Philadelphia, (October 17, 2016).
98. "Friedreich ataxia is a natural candidate for gene therapy" in the FARA/FDA-CBER joint meeting at the FDA, Silver Spring, MD (January 23, 2017).
99. "Epigenetic silencing in Friedreich ataxia is caused by hypermethylation of the FXN CpG island shore" at the MDA National Scientific Conference, Washington DC (March 20, 2017).
100. "Lessons from an unlikely career in biomedical research" in the 2017 OUHSC - GREAT Symposium Workshop on Career Development (March 29, 2017).
101. "Epigenetic Silencing in Friedrich ataxia" at the International Congress of Genetics in Xi'an, China (April 25-27, 2017).
102. "Repeat-induced epigenetic promoter silencing in Friedreich ataxia" Department of Biochemistry & Molecular Biology seminar series (May 16, 2017).
103. "Recent Advances in the Molecular Basis of Friedreich ataxia" First Hospital of Jilin University Pediatrics Clinical Conference (May 27, 2017).
104. "The Brain & Genetics" Neuro Night community presentation sponsored by the Oklahoma Center for Neuroscience at the Fountains at Canterbury, Oklahoma City (June 20, 2017).
105. "Epigenetic silencing in Friedreich ataxia is caused by hypermethylation of the FXN CpG island shore." International Ataxia Research Conference, Pisa, Italy. (September 27, 2017).
106. "Translating Research into Therapies," featured speaker at Muscular Dystrophy Association's *Uncork the Cure* gala event, that raised $500,000 for neuromuscular disease research (Dallas, TX; 11/17/2017)

POSTER PRESENTATIONS

1. Purandare H., Chakravarty A., Gogate S., Purandare S., Bidichandani S.I. Genetic counseling in abnormal ultrasound findings. *Am. J. Hum. Genet.* 49:228 (1991).
2. Bidichandani S.I., Lanyon W.G., Shiach C., Lowe G.D.O., Connor J.M. Three novel mutations in

the factor VIII gene. *J. Med. Genet.* 31:174 (1994).

3. Alexander Y.M., Bidichandani S.I., Robinson C., Trainer A.H., Akhurst R.J. Physical methods of gene delivery using keratinocytes as a target for somatic cell gene therapy. *Gene Therapy* 1:57 (1994).
4. Alexander Y.M., Bidichandani S.I., Robinson C., Trainer A.H., Akhurst R.J. Treatment of haemophilia B by somatic cell gene therapy using keratinocytes as a gene delivery system. *J. Cell. Biochem.* 18:241 (1994).
5. Bidichandani S.I., Lanyon W.G., Shiach C., Lowe G.D.O., Connor J.M. Mutation analysis in haemophilia A. *J. Cell. Biochem.* 18:236 (1994).
6. Bidichandani S.I., Lanyon W.G., Lowe G.D.O., Connor J.M. Analysis of mutations in the entire coding sequence of the factor VIII gene. *Am. J. Hum. Genet.* 54:1235 (1994).
7. Hai M., Bidichandani S.I., Patel P.I. Transcriptional regulation of the *PMP22* gene. *Am. J. Hum. Genet.* 63:A181 (1998).
8. Bidichandani S.I., Purandare S.M., Taylor E.E., Machkhas H., Harati Y., Gibbs R.A., Ashizawa T., Patel P.I. Somatic sequence variation in Friedreich ataxia includes complete contraction of the expanded GAA trinucleotide repeat, significant length variation in serially passaged lymphoblasts, and enhanced mutagenesis in the flanking sequence. *Am. J. Hum. Genet.* 65:A103 (1999).
9. Hai M., Bidichandani S.I., Patel P.I. Functional characterization of the *PMP22* gene promoters. *Am. J. Hum. Genet.* 65:A187 (1999).
10. Bidichandani S.I. Ethical issues in genetics: Towards a vignette-based course. Master Teacher Fellowship Program Colloquium, Baylor College of Medicine, Houston TX, 1/2000.
11. Bidichandani S.I. There is a need for graduate training in the ethical aspects of genetics research. *Am. J. Hum. Genet.* 67:A1114 (2000).
12. Bidichandani S.I., Clark R.M., Bhatti S., Alonso E., Yescas P., Rasmussen A. Unexpectedly low prevalence of Friedreich ataxia in the Mexican population. *Am. J. Hum. Genet.* 69:A2372 (2001).
13. Clark R.M., Bhatti S., Alonso E., Yescas P., Rasmussen A., Bidichandani S.I. GAA triplet-repeat variation at the Friedreich ataxia locus in NahuatI Indians of Mexico. *Am. J. Hum. Genet.* 69:A1415 (2001).
14. Bhatti S., Clark R.M., Ashizawa T., Bidichandani S.I. Single-genome analysis of the expanded GAA triplet-repeat sequence indicates a very high mutation load *in vivo* and a distinct contraction bias. *Am. J. Hum. Genet.* 69:A2371 (2001).
15. Hern L.M., Bidichandani S.I. Differential instability of the GAA triplet-repeat in a prokaryotic replication model. Oklahoma Center for Neuroscience conference on “Brain, Behavior, and Cognition”, Oklahoma City, OK (2002)
16. Clark R.M., Taylor J.M., Bidichandani S.I. *Alu* elements are a significant source of GAA triplet-repeats in the human genome. Oklahoma Center for Neuroscience conference on “Brain, Behavior, and Cognition”, Oklahoma City, OK (2002)
17. Dalgliesh G.L., Purandare S.M., Bidichandani S.I. Mutation analysis in Friedreich ataxia. Oklahoma Center for Neuroscience conference on “Brain, Behavior, and Cognition”, Oklahoma City, OK (2002)
18. Gomez M., Nath S., Bhatti S., Rasmussen A., Bidichandani S.I. Low frequency of Friedreich ataxia in the Mexican Mestizo population. *Am. J. Hum. Genet.* 71:A1157 (2002).
19. Sharma R., Bhatti S., Gomez M., Clark R., Murray C., Ashizawa T., Bidichandani S.I. Bimodal, length-dependent, somatic instability of the GAA triplet-repeat sequence in Friedreich ataxia. *Am. J. Hum. Genet.* 71:A1980 (2002).
20. Rasmussen A., Bidichandani S.I., Clark R.M., Bhatti S., Yescas P., Alonso E. Friedreich ataxia in the Mexican Mestizo and Nahua populations: Unexpected findings. Mexican Society of Human Genetics, 27th congress, November 20-23 (2002).
21. Rasmussen A., Gomez M., Nath S., Bhatti S., Yescas P., Alonso E., Bidichandani S.I. Low frequency of Friedreich ataxia in the Mexican Mestizo population. HUGO/HGM2003, Human Genome Meeting. Cancun, Mexico, April 27-30 (2003).
22. Clark R.M., Dalgliesh D., Endres D., Bidichandani S.I. Expansion of GAA triplet repeats in the Human Genome: A ticking bomb? *Am. J. Hum. Genet.* 73: 1599 (2003).

23. Bidichandani S.I., Gomez M., Li S., Ashizawa T. Atypical Friedreich Ataxia in a carrier of a premutation length allele. *Am. J. Hum. Genet.* 73: 2302 (2003).
24. Gomez M., Hern L., Ashizawa T., Alonso E., Rasmussen A., Bidichandani S.I. Aprataxin Mutations are not a significant cause of recessive ataxia in the Mexico Mestizo population. *Am. J. Hum. Genet.* 73: 2223 (2003).
25. Sharma R., Gomez M., Shah S., Delatycki M., Pianese L., Monticelli A., Keats B., Bidichandani S.I. Small-pool PCR analysis of premutation alleles at the FRDA (frataxin) locus. *Am. J. Hum. Genet.* 73: 2459 (2003).
26. Bidichandani S.I., Miyahara M., Bhaskar S.S., Clark R.M., Dalgliesh G.L., Endres D. A-Tracts, G/A Islands, G/A Microsatellites: Evolution Of The Longest Microsatellite Repeats In The Primate Genome. 4th International conference on Unstable Microsatellites and Human Disease, Banff, Canada, 3/2004
27. Pollard L.M., Sharma R., De Biase I., Gómez M., Shah S., Delatycki M., Pianese L., Monticelli A., Keats B.J.B., and Bidichandani S.I. Replication induced reversion of the GAA triplet-repeat mutation in Friedreich ataxia. 4th International conference on Unstable Microsatellites and Human Disease, Banff, Canada, 3/2004
28. Clark R.M., Gómez M., Nath S.K., Bhatti S., Sharma R., Alonso E., Rasmussen A., and Bidichandani S.I. Friedreich ataxia in the Mexican population is due to European genetic admixture. 4th International conference on Unstable Microsatellites and Human Disease, Banff, Canada, 3/2004
29. Dalgliesh G.L., Purandare, S.M. and Bidichandani, S.I. Frataxin Function: Insights From A Yeast Based Mutation Screen. 4th International conference on Unstable Microsatellites and Human Disease, Banff, Canada, 3/2004
30. Clark R.M., Bhaskar S.S., Miyahara M., Bidichandani S.I. Divergent evolution of GAA triplet repeats in primate genomes. 54th Annual Meeting of the American Society of Human Genetics in Toronto, Canada (October 26-30, 2004).
31. Dalgliesh G.L., Purandare S.M., Marichal K.G., Brown J.M., Bidichandani S.I. A yeast based mutation screen to uncover new insights into frataxin function. 54th Annual Meeting of the American Society of Human Genetics in Toronto, Canada (October 26-30, 2004).
32. Pollard L.M., Sharma R., De Biase I., Gómez M., Shah S., Delatycki M., Pianese L., Monticelli A., Keats B.J.B., and Bidichandani S.I. Replication induced instability of the GAA triplet-repeat mutation in Friedreich ataxia. 54th Annual Meeting of the American Society of Human Genetics in Toronto, Canada (October 26-30, 2004).
33. De Biase I., Sharma R., Gómez M., Ashizawa T., and Bidichandani S.I. Friedreich ataxia in carriers of somatically unstable borderline GAA repeat alleles. 54th Annual Meeting of the American Society of Human Genetics in Toronto, Canada (October 26-30, 2004)
34. Bhaskar S.S., Clark R.M., Miyahara M., and Bidichandani, S.I. Divergent evolution of GAA triplet repeats in primates. Annual Symposium of the Oklahoma Bioinformatics Society (OKBIOS) (November 12, 2004) University of Oklahoma, Norman, Oklahoma (November 12, 2004).
35. Clark R.M.**, Bhaskar S.S., Dalgliesh G.L., and Bidichandani, S.I. Locus-specific expansion of GAA triplet-repeats in the human genome. Annual Symposium of the Oklahoma Bioinformatics Society (OKBIOS) University of Oklahoma, Norman, Oklahoma (November 12, 2004). ** *Winner of first prize in the student poster competition*.
36. De Biase I., Clark R.M., Endres D., Al-Mahdawi S., Monticelli A., Cocozza S., Pook M., Bidichandani S.I. Somatic instability of expanded triplet repeat occurs after embryogenesis. 55th Annual Meeting of the American Society of Human Genetics in Salt Lake City (October 25-29, 2005).
37. Pollard L.M. and Bidichandani S.I. Role of E. Coli *ssb* in GAA triplet-repeat instability. 55th Annual Meeting of the American Society of Human Genetics in Salt Lake City (October 25-29, 2005).
38. Clark R.M., Bhaskar S.S., Miyahara M., Dalgliesh G.L., Bidichandani S.I. Expansion of GAA trinucleotide repeats in mammals. 55th Annual Meeting of the American Society of Human Genetics in Salt Lake City (October 25-29, 2005).
39. Rasmussen A., Gomez M., Alonso E., Bidichandani S.I. "Clinical and genetic heterogeneity of

autosomal recessive ataxia in the Hispanic population", World Congress of Neurology, Gold Coast, Australia (November 3-4, 2005)

40. Clark R.M., Al-Mahdawi S., Pook M., Bidichandani S.I. "Age-, tissue-, and locus-dependent variability of GAA triplet-repeats", ASBMB Symposium: DNA Structure, Genomic Rearrangements and Human Disease, Houston, TX (March 12-14, 2006)
41. Pollard L.M., Bourn R.L., Bidichandani S.I. "Role of E. coli RecA and SSB in mediating GAA triplet-repeat instability", ASBMB Symposium: DNA Structure, Genomic Rearrangements and Human Disease, Houston, TX (March 12-14, 2006)
42. Endres D., De Biase I., Bidichandani S.I. "Markov chain modeling of GAA triplet-repeat instability in Friedreich ataxia suggests that large contractions occur as single mutational events", ASBMB Symposium: DNA Structure, Genomic Rearrangements and Human Disease, Houston, TX (March 12-14, 2006)
43. Bidichandani S.I., De Biase I., Endres D., Rasmussen A., Al-Mahdawi S., Monticelli A., Cocozza S., Pook M. "Somatic instability in Friedreich ataxia develops after organogenesis, progresses throughout life, and includes large, age-dependent expansions in dorsal root ganglia", 20th IUBMB International Congress of Biochemistry and Molecular Biology, Kyoto, Japan (June 18 – 23, 2006)
44. Rasmussen A., Gómez M., Alonso E., Bidichandani S.I. "Clinical and genetic heterogeneity of autosomal recessive ataxia in the Hispanic population", 11th International Congress of Human Genetics, Brisbane, Australia (August 6 – 10, 2006)
45. Bidichandani S.I., De Biase I., Endres D., Rasmussen A., Al-Mahdawi S., Monticelli A., Cocozza S., Pook M. "Somatic instability in Friedreich ataxia develops after organogenesis, progresses throughout life, and includes large, age-dependent expansions in dorsal root ganglia", 11th International Congress of Human Genetics, Brisbane, Australia (August 6 – 10, 2006)
46. Rasmussen A., Alonso E., Bidichandani S.I. "Clinical heterogeneity of recessive ataxia in the Mexican population". 10th International Congress of Parkinson's disease and Movement disorders. Kyoto, Japan (October 28 – November 2, 2006).
47. Bidichandani S.I., De Biase I., Al-Mahdawi S, Pook M. "Progressive, age-dependent expansions of the GAA triplet-repeat sequence in dorsal root ganglia of Friedreich ataxia patients". 10th International Congress of Parkinson's disease and Movement disorders. Kyoto, Japan (October 28 – November 2, 2006). ******** *Selected in top 15 abstracts of the Congress & winner of the William Koller Memorial Award*
48. Endres D., De Biase I., Bidichandani S.I. "Markov chain modeling of GAA triplet-repeat instability in Friedreich ataxia suggests that large contractions in vivo occur as single mutational events". 5th International Conference on Unstable Microsatellites and Human Disease, Granada, Spain, November 11 - 16, 2006.
49. Pollard L., Bidichandani S.I. "Double-stranded break repair within the $(GAA•TTC)_n$ sequence dramatically enhances instability resulting in large contractions". Keystone Symposium on Genome Instability and Repair, Breckenridge, Colorado, January 17 – 22, 2007.
50. Bourn R., Bidichandani S.I. "*E. coli* mismatch repair does not destabilize the $(GAA•TTC)_n$ repeat sequence". Keystone Symposium on Genome Instability and Repair, Breckenridge, Colorado, January 17 – 22, 2007.
51. Pollard L., Chutake Y., Bidichandani S.I. "Proficient RecA-dependent restart of stalled replication forks is required for stability of the (GAA•TTC)n sequence" FASEB Summer Research Conference: Genetic Recombination and Genome Rearrangements, Snowmass Village, Colorado, July 28 – August 2, 2007.
52. De Biase I., Clark R., Rasmussen A., Al-Mahdawi S., Monticelli A., Cocozza S., Pook M., Bidichandani S.I. Somatic instability in Friedreich ataxia progresses throughout life, and includes large, age-dependent expansions in dorsal root ganglia. 57th Annual Meeting of the American Society of Human Genetics (San Diego, CA; October 23 – 27, 2007)
53. Bourn R., Rindler P., Pollard L., Bidichandani S.I. Age-dependent and tissue-specific expansion of the (GAA•TTC)n sequence is mediated by Msh2-Msh6. 2nd Genome Dynamics Neuroscience Meeting: DNA transactions in the aging brain, Asilomar, California, June 13 – 17, 2008.

54. Endres D., De Biase I., Bidichandani S.I. Stochastic modeling of *in vivo* GAA triplet-repeat instability in dorsal root ganglia of Friedreich ataxia patients suggests that it is size, not frequency, of expansions that increases with age. 2nd Genome Dynamics Neuroscience Meeting: DNA transactions in the aging brain, Asilomar, California, June 13 – 17, 2008.
55. Rasmussen A., Ochoa A., De Biase I., Yescas P., Sosa A.L., Rodríguez Y., Chávez M., López M., Alonso E., Bidichandani S.I. Predictive genetic testing and tumor surveillance in von Hippel-Lindau disease: a five year follow-up. The 2nd World Congress on Neurology (CONy), Athens, Greece, October 23-26, 2008
56. Rasmussen A., Ochoa A., De Biase I., Yescas P., Sosa A.L., Rodríguez Y., Chávez M., López M., Alonso E., Bidichandani S.I. Predictive genetic testing and tumor surveillance in von Hippel-Lindau disease: a five year follow-up. American Society of Human Genetics, November 11-15, 2008
57. Bidichandani S.I., Chutake Y., De Biase I. Altered CTCF-mediated chromatin topology and epigenetic changes in the FXN gene in Friedreich ataxia 6th International Conference on Unstable Microsatellites and Human Disease; Guanacaste, Costa Rica; 1/18/2009
58. Bourn R.L., De Biase I., Pinto R.M., Pook M., Bidichandani S.I. Pms2 Suppresses large expansions of the (GAA•TTC)n sequence in a transgenic mouse model. 6th International Conference on Unstable Microsatellites and Human Disease; Guanacaste, Costa Rica; 1/18/2009
59. Endres D., De Biase I., Bidichandani S.I. Stochastic modeling of *in vivo* GAA triplet-repeat instability in dorsal root ganglia of Friedreich ataxia patients suggests that it is size, not frequency, of expansions that increases with age. 6th International Conference on Unstable Microsatellites and Human Disease; Guanacaste, Costa Rica; 1/18/2009
60. Al-Mahdawi, S., Mouro Pinto, R., Sandi, C., Ezzatizadeh, V., Aichinger, C., Boykin, D., Bidichandani, S. I, Pook, M.A. GAA repeat instability and GAA-induced epigenetic effects in a mouse model of Friedreich ataxia. 6th International Conference on Unstable Microsatellites and Human Disease; Guanacaste, Costa Rica; 1/18/2009
61. Bidichandani S.I., Chutake Y., De Biase I. CTCF depletion in the FXN gene constitutes an epigenetic switch in Friedreich ataxia. 13th International Congress of Parkinson's disease and Movement disorders. Paris, France (June 7 – 11, 2009). ****** *Selected for oral presentation*
62. Rasmussen A., Ochoa A., De Biase I., Yescas P., Sosa A.L., Rodríguez Y., Chávez M., López M., Alonso E., Bidichandani S.I. Uptake of genetic testing and long-term tumor surveillance in von Hippel-Lindau disease. American Society of Human Genetics, Honolulu HI, October 20-24, 2009
63. Bidichandani S.I., Chutake Y., De Biase I. CTCF depletion in the *FXN* gene constitutes an epigenetic switch in Friedreich ataxia. American Society of Human Genetics, October 20-24, 2009
64. Chutake Y.K., De Biase I., Castro A.M., Bidichandani S.I. "Mechanism of epigenetic silencing of the FXN gene in Friedreich ataxia". Presented at the 3rd Ataxia Investigators Meeting (AIM), Chicago IL, March 9-11, 2010.
65. Chutake Y.K., De Biase I., Castro A.M., Bidichandani S.I. "Mechanism of epigenetic silencing of the FXN gene in Friedreich ataxia". Presented at the Keystone Symposium on Developmental Origins and Epigenesis in Human Health and Disease; Singapore, April 26-30, 2010.
66. Chutake Y.K., De Biase I., Castro A.M., Bidichandani S.I. "Mechanism of epigenetic silencing of the FXN gene in Friedreich ataxia". Presented at the 14th International Congress of the Movement Disorders Society; Buenos Aires, Argentina, June 13-17, 2010.
67. Bidichandani S.I., Castro A., Chutake Y. Depletion of CTCF, even in the absence of expanded GAA triplet-repeats, is sufficient to reproduce the epigenetic silencing of the *FXN* gene seen in Friedreich ataxia. American Society of Human Genetics, November 2-6, 2010.
68. Chutake Y.K., De Biase I., Castro A.M., Bidichandani S.I. RNA-mediated transcriptional silencing in Friedreich ataxia. 7th International Conference on Unstable Microsatellites and Human Disease, Strasbourg, France, June 9-14, 2012.
69. Chutake Y.K. and Bidichandani S.I. Transcriptional deficiency in Friedreich ataxia is associated with spread of repressive chromatin upstream of the expanded GAA trinucleotide repeat mutation. Keystone Symposium on RNA Silencing, Whistler, British Columbia, Canada, March 19-24, 2013.
70. Chutake Y.K. and Bidichandani S.I. Transcriptional deficiency in Friedreich ataxia is associated

with spread of repressive chromatin upstream to the promoter region of the *FXN* gene. International Congress of the Movement Disorders Society, Sydney, Australia, June 16-30, 2013.

71. Chutake Y.K. and Bidichandani S.I. Spread of repressive chromatin from the expanded GAA trinucleotide repeat mutation contributes to gene silencing in Friedreich ataxia. American Society of Human Genetics, Boston MA, October 22-26, 2013.
72. Chutake Y.K., Costello W., Lam C. and Bidichandani S.I. Trinucleotide repeat-mediated transcriptional gene silencing in Friedreich ataxia. Keystone Symposium on RNA Silencing, Seattle, WA, January 31 – February 5, 2014.
73. **Chutake Y.K., Costello W., Lam C. and Bidichandani S.I. Altered nucleosome positioning and deficient transcriptional initiation caused by the expanded GAA triplet-repeat in Friedreich ataxia. Annual meeting of the National Ataxia Foundation, Las Vegas, NV, March 18 – 21, 2014. ** *Winner of a NAF young investigator travel award.*
74. Chutake Y.K., Lam C., Costello W., and Bidichandani S.I. The expanded GAA triplet-repeat in Friedreich ataxia causes a severe deficiency of transcriptional initiation. International Congress of the Movement Disorders Society, Stockholm, Sweden, June 8-12, 2014.
75. Chutake Y.K., Lam C., Costello W., and Bidichandani S.I. Reversal of Epigenetic Promoter Silencing in Friedreich Ataxia by a Histone Deacetylase Inhibitor. American Society of Human Genetics, San Diego CA, October 18-22, 2014.
76. Chutake Y.K., Lam C., Costello W., and Bidichandani S.I. "A Histone Deacetylase Inhibitor Reverses Promoter Silencing in Friedreich Ataxia." Keystone conference on Epigenetics, Keystone, CO, January 25-30, 2015.
77. Chutake Y.K., Lam C., Costello W., and Bidichandani S.I. "The Epigenetic Defect in Friedreich ataxia." Keystone conference on Neuroepigenetics, Santa Fe, NM, February 23-25, 2015.
78. Chutake Y.K., Lam C., Costello W., Anderson M.P., and Bidichandani S.I. Histone Deacetylase Inhibitor Reverses Promoter Silencing in Friedreich Ataxia. American Society of Human Genetics, San Diego CA, October 6-10, 2015.
79. Chutake Y.K., Costello W., Lam C., Pook M.A., and Bidichandani S.I. *FXN* promoter silencing in the humanized mouse model of Friedreich ataxia. American Society of Human Genetics, Baltimore MD, October 6-10, 2015.
80. Chutake Y.K., Lam C., Wiley G., and Bidichandani S.I. Variegated hypermethylation of the FXN CpG island shore in Friedreich ataxia. American Society of Human Genetics, Vancouver, Canada, October 18-22, 2016.
81. Rodden L.N., Chutake Y.K., and Bidichandani S.I. A CRISPR-Cas9 based approach for targeted epigenetic modification in Friedreich ataxia. Oklahoma Center for Neuroscience 25th anniversary symposium; Oklahoma City, OK. **Winner of Best Poster Presentation Travel Award**
82. Rodden L.N., Chutake Y.K., and Bidichandani S.I. A CRISPR-Cas9 based approach for targeted epigenetic modification in Friedreich ataxia. Keystone Conference on Precision Genome Engineering. Breckenridge CO, January 8-12, 2017.
83. Chutake Y.K., Bidichandani S.I. Variegated hypermethylation of the *FXN* CpG island shore in Friedreich ataxia. Keystone Conference on Epigenetics & Human Disease. Seattle WA, January 29 – February 2, 2017.
84. Chutake Y.K., Bidichandani S.I. Epigenetic silencing in Friedreich ataxia is caused by hypermethylation of the FXN CpG island shore. MDA National Scientific Conference, Washington DC. March 20, 2017.
85. Rodden L.N., Chutake Y.K., and Bidichandani S.I. A CRISPR-Cas9 based approach for targeted epigenetic modification in Friedreich ataxia. 2017 OUHSC-GREAT Symposium, March 29, 2017 **Winner of Best Poster Presentation Travel Award**
86. Rodden L.N. and Bidichandani S.I. A CRISPR-Cas9 based approach for targeted epigenetic modification in Friedreich ataxia. International Ataxia Research Conference, Pisa, Italy. September 27-30, 2017. **Winner of a FARA Student Travel Award**
87. Rodden L.N., Chutake Y.K. and Bidichandani S.I. Epigenetic silencing in Friedreich ataxia is caused by hypermethylation of the *FXN* promoter CpG island shore. American Society of Human

Genetics, Orlando, FL, October 17-21, 2017.

TEACHING ACTIVITIES

OU College of Medicine (MS1 / MS2 students)

1. Molecular basis of genetic disease (8 hours)	2001-2010
2. Human genetic diseases (4 hours)	2002-2010
3. Team-based learning project on a selected topic in human genetics (2 hours)	2002-2010
4. Clinical correlation – Duchenne/Becker muscular dystrophy (2 hours)	2002-2010
5. Clinical correlation – Cystic fibrosis (2 hours)	2004-2010
6. Molecular basis of genetic disease (10 hours [MS1 Mol Cell Systems course])	2013-pres
7. Ethics in Medical Genetics (2 hours [MS2 Clinical Ethics course])	2014-pres
8. Review of Human Genetics (4 hours; MS2 Clinical Transitions course)	2015-pres

OUHSC Graduate Program in Biomedical Sciences (GPiBS)

1. Eukaryotic genome organization (3 hr)	2001-2010
2. Genetic linkage analysis (including human disease susceptibility genes) (3 hr)	2001-2010
3. Mechanics of eukaryotic DNA replication (1.5 hr)	2002-2010
4. Trinucleotide repeat expansions and neurogenetic disease (3 hr)	2002-2010
5. Mechanisms of DNA repeat instability (4.5 hr)	2004-2010
6. Genome organization - BMSC 6012 Molecular systems I (3 hr)	
7. Expanded repeats and human disease – PATH6121 (3 hr)	2015-pres

Graduate Program in Neuroscience

1. Muscular dystrophies - OCNS 6503 Neurobiology of Disease (1.5h)	2005-pres

Masters Program in Genetic Counseling

1. Human Molecular Genetics GENC5222 (5 h)	2016
2. Human Molecular Genetics GENC5222 (14 h)	2017-pres

TRAINEES

TRAINEES	PERIOD OF TRAINING	AWARDS
RESEARCH ASSISTANT PROFESSOR		
Astrid Rasmussen, MD/PhD	Aug 2005 - Aug 2009	Reynold's Foundation Fellow (08-09)
POST DOCTORAL FELLOWS		
Yogesh Chutake, PhD**	Nov 2011 – July 2017	CODRT U PENN Fellowship (2015)
Angela Maria Castro, MD	July 2009 – June 2011	
Irene De Biase, MD/PhD	Jan 2004 - June 2009	National Ataxia Foundation Fellow (06)
Gillian L. Dalgliesh, PhD	Feb 2002-April 2005	American Heart Assoc. Fellow (03-05)
Rajesh Sharma, PhD	Oct 2001- Jan 2004	

**Semifinalist for the 2012 Charles J. Epstein Trainee Award for Excellence in Human Genetics Research by the American Society of Human Genetics.

GRADUATE STUDENTS (Primary Ph.D. Thesis Adviser)		
Rhonda M. Clark**	May 2002- May 2006	BMB Travel Award (03, 06)
Laura M. Pollard	May 2002- Nov 2007	BMB Travel Award (04, 06)
Paul Rindler	March 2004-June 2009	BMB Travel Award (06)
Rebecka Bourn	March 2005-Oct 2009	BMB Travel Award (06)
Yogesh Chutake	May 2007-Oct 2011	BMB Travel Award (09)
Layne Rodden	March 2016-present	FARA Travel Award (17)

**Winner of the Fred & Marie Gray Research Achievement Award in Biochemistry & Molecular Biology (2007)

TECHNICAL STAFF

Sandy Bhaskar, MS	Sept 2003-April 2005
Masaki Miyahara, MS	Feb 2004-April 2005
Mariluz Gomez, MS	Jan 2002-Dec 2003
Saeeda Bhatti, MS	Oct 2000-March 2002
Ellen Taylor, BS	July 1998-June 2000
Whitney Costello, BS	Feb 2013 – June 2015
Christina Chau Lam, BS	April 2013 – Aug 2016
Kera Arbuckle, BS	Oct 2015 – Aug 2016
Katie Gilliam, BS	Apr 2017 – present

MEDICAL STUDENTS

Sonali Shah (OUHSC / MS1)	Summer 2003	PHF honors summer fellowship (03)
Jamie Wilson (OUHSC / MS1)	Summer 2004	PHF honors summer fellowship (04)
Pooja Singhal (OUHSC / MS1)	Summer 2005	PHF honors summer fellowship (05)
Sarah Matousek (OUHSC / MS1)	Summer 2005	PHF honors summer fellowship (05)
Christopher Parker (OUHSC / MS1)	Summer 2008	CTS summer scholarship (08)
Logan Campbell (OUHSC/MS1)	Summer 2009	CTS summer scholarship (09)
Valerie Truong (OUHSC/MS1)	Summer 2010	
Andrew Gessoroun (OUHSC/MS1)	Summer 2013	Gene Team 2013
Michael Michalopulos (OUHSC/MS1)	Summer 2014	OSCTR summer fellow
Tamara Hughes (OUHSC/MS1)	Summer 2014	American Col of Med Genetics Fellow
Omid Roostaeyan (OUHSC/MS1)	Summer 2015	OSCTR summer fellow
Jordan Miller (OUHSC/MS1)	Summer 2016	OSCTR summer fellow
Angela Nguyen (OUHSC/MS1)	Summer 2017	OSCTR summer fellow
Dyrian Wandick (Howard U / MS1)	Summer 2017	Gene Team 2017

UNDERGRADUATE STUDENTS

Jim Taylor (Johns Hopkins U)	Summer 2002	Gene Team 2002
Aimee Spears (UCO)	Spring semester 2002	
Jeremy Wynn (UCO)	Spring semester 2003	
Lori Wilburg (SNU)	Spring semester 2005	
Yahya Lazrak (UCO)	Fall semester 2005	
Davia Holland (Langston)	Summer 2006	UBEP summer fellow
Laura Hunter (ECU)	Summer 2007	INBRE summer fellow
Brad Hardy (OU)	Fall 2007, Spring 2008	
Heather Kelly (OU)	Fall 2007, Spring 2008	
Claire Crewe (OCU)	Fall 2008, Spring 2009	
Zain Raza (Washington & Lee)	Summer 2013	SURE summer fellow
Aniruddha Parikh (Vanderbilt)	Summer 2014	SURE summer fellow; SURP Award
Canisia Tatah (SWOSU)	Summer 2015	SURE summer fellow

HIGH SCHOOL STUDENTS

Yang Jiang (OSSM)	Fall 2007, Spring 2008	OSSM Research Scholars Program
Barat Venkatramany	Summer 2013	Gene Team 2013
Maddyson Allgood (OSSM)	Summer 2015, Fall 2015	OSSM Research Scholars Program
Logan Andrews (Edmond North)	Summer 2015	Gene Team 2015
Arshia Ramesh (OSSM)	Summer 2017	OSSM Research Scholars Program
Dhanasheel Muralidharan (OSSM)	Summer 2017	Gene Team 2017

*AHA=American Heart Association; BMB=Biochemistry & Molecular Biology; PHF=Presbyterian Health Foundation; OU=University of Oklahoma; UCO=University of Central Oklahoma; SNU=Southern Nazarene University; OSSM=Oklahoma School for Science and Mathematics

PhD THESIS COMMITTEES / External Examiner (excluding my own PhD students)

Lance Bridges (2003); Biochemistry & Molecular Biology; OUHSC
Mandy Peak (2005); Biochemistry & Molecular Biology; OUHSC
Shylet Chengedza (2009); Biochemistry & Molecular Biology; OUHSC
Novita Puspasari (2009); Melbourne School of Graduate Research, University of Melbourne, Australia
Patience Masamha (2010); Biochemistry & Molecular Biology; OUHSC
Rachel Adihe Lokanga (2016); Medical Biochemistry, University of Cape Town, South Africa
Dantham Subrahamanyam (2016); Biochemistry, All India Institute of Medical Sciences, New Delhi
Dawn Bender (2017-pres); Cell Biology; OUHSC

SERVICE ON COMMITTEES (OUHSC)

Department of Biochemistry & Molecular Biology

1. General exam committee, Biochemistry & Molecular Biology (Member)	2001 – 2010
2. Medical Course Curriculum Committee (Chair)	2008 – 2010
3. Departmental space committee (Member)	2009 – 2010
4. Faculty Search Committee (Member)	2009 – 2010
5. Appointment/Promotions/Award Nominations Committee (Member)	2007 – 2008
6. Adjunct Faculty Review and Evaluation Committee (Member)	2007 – 2008
7. Student recruitment committee, Biochemistry & Molecular Biology (Chair/member)	2002 – 2008
8. Department Advisory Committee, Biochemistry & Molecular Biology (Member)	2003 – 2007
9. Dental-Pharmacy Biochemistry Course Review Committee (Member)	2004
10. Biochemistry & Molecular Biology student participation committee	2004
11. Department Seminar Committee	2013 – 2015
12. Graduate program curriculum committee	2015 – 2016

Department of Pediatrics

1. Pediatrics Research Committee	2013 – pres
2. RIPEN research forum	2015 – pres

Graduate Education

1. MS Genetic counseling graduate program, Advisory committee (Member)	2003 – 2008
2. GPiBS student recruitment committee (Member)	2004 – 2006
3. Director of “Med-into-Grad” Program, OUHSC Graduate College	2009 – 2010
4. Academic Program Review Committee, MS Genetic counseling program (Member)	2009 – 2010
5. OCNS Graduate Education Committee (Member)	2014 – pres
6. Program Evaluation Committee, MS Genetic counseling program (Member)	2014 – pres
7. Medical Genetics Residency Program Evaluation Committee (Member)	2014 – pres

College of Medicine

1. Grant review panels for PHF and COMAA applications	2003 – 2006
2. OU College of Medicine Dean’s Assistant Professor Advisory Committee	2005 – 2006
3. OU College of Medicine, Student Promotion committee (Member)	2005 – 2009
4. Molecular & Cellular Systems Course Curriculum Committee (Chair)	2007 – 2010
5. Curriculum 2010 Systems Directors Committee (Member)	2008 – 2010
6. Capstone Course Planning committee (Member)	2009 – 2010
7. Basic Sciences Curriculum Committee (Member)	2008 – 2010
8. Member (at large) of the Faculty Board, OU COM	2009 – 2010
9. Member (at large) of the Executive committee of the Faculty Board, OU COM	2009 – 2010
10. Curriculum Coordinating Committee (Member)	2009 – 2010
11. LCME Self-Study Subcommittee B for Educational Programs (Chair)	2010
12. LCME Self-Study Task Force (Member)	2010
13. Admissions Board (Member)	2010
14. Promotion and Tenure committee (Member)	2013 – pres

15. ATS Membership Committee 2013 – pres
16. Course review committee (Ad hoc) “Community Preceptorship” 2015
17. Course review committee (Ad hoc) “Immunology, Microbiology & Integument” 2015
18. Course review committee (Ad hoc) “Gastrointestinal and Hepatobiliary” 2015
19. Course review committee (Ad hoc) “Reproductive system” 2016
20. Course review committee (Ad hoc) “Clinical Transitions” 2016
21. Curriculum Evaluation Subcommittee (Member) 2017 – pres

PROGRAM COMMITTEES FOR CONFERENCES

1. Program committee member, Annual Symposium of the Oklahoma Bioinformatics Society (OKBIOS), University of Oklahoma, Norman, OK (2004)
2. Program Committee Member, Association of Medical & Graduate Departments of Biochemistry (AMGDB) “Workshop on Medical Biochemistry Education Strategies”, Myrtle Beach, SC (2008)
3. Treasurer, Secretary, and Program Committee member, National Association of Medical Biochemistry Course Directors (ABCD) “Workshop on Medical Biochemistry Education Strategies”, Myrtle Beach, SC (2009) and Session Moderator for “Biochemistry in Integrated Curricula – How Do They Fit Together?”
4. Program committee member, Muscular Dystrophy Association Annual Scientific Conference. Washington, DC, April 21-25, 2013.
5. Judge for the Charles Epstein Postdoctoral Trainee Research Awards (platform presentations) at the American Society of Human Genetics, San Diego, October 2013.
6. Program committee member and Chair of the session entitled “Chromatin Dynamics, Genome Integrity, and Human Disease” at the 5th World DNA and Genome Day Conference in Dalian, China April 25-28, 2014.
7. Chaired scientific session on “Latest development in treatment approaches for Friedreich ataxia” at the “health and scientific symposium” for patients and families hosted by the University of South Florida, Department of Neurology (Tampa, FL; 9/4/2014).
8. Judge for the Charles Epstein Postdoctoral Trainee Research Awards (platform presentations) at the American Society of Human Genetics, San Diego, October 2014.
9. Program committee member, Muscular Dystrophy Association Annual Scientific Conference. Washington, DC, March 11-14, 2015.
10. Chaired scientific session on “Genetic and Molecular Mechanisms of the Ataxias” at the International Ataxia Research Conference, Windsor, England, March 25-28, 2015.
11. Program committee member and Chair of the session entitled “Neurogenetics, Neurodegeneration and Psychiatric Genetics” at the 6th World DNA and Genome Day Conference in Nanjing, China April 25-28, 2015.
12. FARA and USF Health Scientific Symposium; Cure for Friedreich ataxia, Moderator of Pharma/Biotech panel; September 17, 2015 at the USF Marshall Student Center Ballroom, Tampa, FL.
13. Judge for the Charles Epstein Predoctoral Trainee Research Awards (platform presentations) at the American Society of Human Genetics, Baltimore, October 2015.
14. Career Paths in Genetics – served as mentor for “Academic Research” Track at the American Society of Human Genetics, Baltimore, October 2015.
15. Career Paths in Genetics – served as mentor for “Academic Research” Track at the American Society of Human Genetics, Vancouver, October 2016.
16. Chair of the session entitled “Clinical Genomics and Applications” at the International Congress of Genetics in Xi’an, China April 25-27, 2017.
17. Career Paths in Genetics – served as mentor for “Academic Research” Track at the American Society of Human Genetics, Orlando, FL, October 2017.