

November, 2006

**BRONYA JOY BEVERIDGE KEATS**  
**Curriculum Vitae**

**Present Position:** **Professor and Head**, Department of Genetics  
**Director**, Molecular and Human Genetics Center of Excellence

**Address:** Department of Genetics  
Louisiana State University Health Sciences Center  
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**Citizenship:** Australian / U.S.A

**Date and Place of Birth:** March 15, 1951 Adelaide, South Australia

**Education:** B.Sc., 1973, Australian National University (1<sup>st</sup> Class Honours)  
Ph.D., 1976, Australian National University (Human Population Genetics)

**Board Certification:** American Board of Medical Genetics, 1993  
Subspecialty: Clinical Molecular Genetics

**Awards and Honors:** ELAM (Executive Leadership in Academic Medicine) Fellow, 2000  
Donald A. Rappoport, Ph.D., Distinguished Pediatric Lectureship, University of Texas Medical Branch, June 2003

**PROFESSIONAL EXPERIENCE**

1977-1982 **Assistant Researcher**, Population Genetics Laboratory, University of Hawaii

1982-1986 **Assistant Professor**, Department of Biometry and Genetics, LSUHSC

1986-1991 **Associate Professor**, Department of Biometry and Genetics, LSUHSC

1991- **Professor**, Departments of Biometry and Genetics, and Otolaryngology – Head & Neck Surgery, and Kresge Hearing Research Laboratory, LSUHSC

1994- **Professor**, Department of Pathology, LSUHSC

1995-1998 **Acting Director**, Molecular and Human Genetics Center of Excellence, LSUHSC

1998- **Director**, Molecular and Human Genetics Center of Excellence, LSUHSC

1999-2000 **Acting Head**, Department of Biometry and Genetics, LSUHSC

2000- **Head**, Department of Genetics, LSUHSC

## MAJOR AREAS OF RESEARCH EXPERIENCE AND INTEREST

1. Genetic Disorders in the Acadian Population
2. Genetics of Deafness and Hearing Impairment in mouse and man
3. Genetic epidemiology of complex disorders
4. Genome variation and comparative genomics

## PRINCIPAL INVESTIGATOR ON THE FOLLOWING GRANTS

### Current Funding

<u>Agency</u>	<u>Title</u>	<u>Total Years</u>	<u>Total Direct Costs</u>
Foundation Fighting Blindness	Usher Syndrome Type IC	1993-2007	\$866,304
Marriott Foundation	Mitochondrial DNA mutations and Hearing Impairment	1999-2007	\$135,000
HRSA	Center for Acadiana Genetics and Hereditary Health Care	1999-2006	\$3,280,000
Louisiana Health Excellence Fund (HEF 2000-05)	Genetic Studies in the Acadian Population	2000-2007	\$4,150,500
NSF (EPSCOR)	Modular Microsystems for Genomics	2004-2007	\$172,000
NCCR (P20 RR020152)	Mentoring a Program in Cancer Genetics	2004-2009	\$1,500,000

### Past Funding

<u>Agency</u>	<u>Title</u>	<u>Total Years</u>	<u>Total Direct Costs</u>
National Ataxia Foundation	Carrier Detection in Friedreich ataxia	1985-91	\$77,758
NHGRI (R01 HG00343)	Maximum Likelihood Mapping of the Human Chromosomes	1985-93	\$618,710
Howard Hughes Medical Institute	A Database for Linkage and Human Gene Mapping	1987-90	\$102,518
NHGRI (R13 HG00231)	International Workshop on Standardizing Genetic Maps	1990-91	\$19,800
National Ataxia Foundation	Linkage Studies of a Large Spinocerebellar Ataxia Pedigree	1990-91	\$5,000
National Ataxia Foundation	Linkage disequilibrium studies of Friedreich Ataxia in the Acadian population	1992-93	\$5,000
Retinitis Pigmentosa Foundation, Inc	A Consortium database for linkage studies of Usher syndrome types I & II	1992-94	\$53,440
NIDCD (Professional Services Contract)	A Consortium database for linkage studies of Usher syndrome types I & II	1992-94	\$35,073
NIDCD (P01 DC00379)	Mapping genes for hearing impairment in mice and humans	1992-97	\$478,646

Neuroscience Center, LSU Health Sciences Center	Identification of the gene for Friedreich ataxia	1994-95	\$12,000
National Ataxia Foundation	Genetic Studies of the Spinocerebellar Ataxias	1995-96	\$5,000
NIDCD (Professional Services Contract)	A Consortium database for Nonsyndromic Hereditary Hearing Impairment	1995-96	\$14,820
Muscular Dystrophy Association	Identification of the gene for Friedreich ataxia	1995-96	\$46,296
National Ataxia Foundation	Genetic Studies in Friedreich ataxia	1997-98	\$5,000
NIDCD Contract	Audiologic and Genetic Studies of Orthodox Jewish Ashkenazi Families	1997-98	\$18,950
State Department of Education	Usher Syndrome Screening Center for Dual Sensory Impairments	1997-98	\$24,735
NIDCD (R01 DC02618) Hearing Muscular Dystrophy Association	Deficit due to Auditory Neuropathy Genetic Studies of the GAA repeat in Friedreich ataxia	1997-99	\$22,440
Deafness Research Foundation	Identification of mouse deafness (dn) gene on chromosome 19	1997-2000	\$180,000
NIDCD (R01 DC04196)	Identification of the mouse deafness (dn) gene	1999-2000	\$15,000
		1999-2004	\$701,376

## PROFESSIONAL RESPONSIBILITIES

### NIH

1986-	Member, NIH Special Study Sections and Site Visit Teams for NIGMS, NIDR, NINDS, NHGRI, NIDCD, NIMH, NIA, NHLBI, NEI
1988-	Ad Hoc member, NIH Mammalian Genetics Study Section
1989-92	Member, NIH Working Group for Human Genetic Mutant Cell Repository, Camden, NJ
1992	Member, Expert panel on Hearing and Hearing Impairment to update NIDCD National Strategic Research Plan, Bethesda, MD
1992-95	Member, NIH Genome Study Section
1992-97	Chair, NIDCD Working Group "Impact of visual impairment on deaf and hard-of-hearing persons"
1992-97	Member, NIDCD Usher Syndrome Consortium (Chair 1993-94)
1994	Member, Search Committee for the Director, Division of Intramural Research, NIDCD
1994-96	Member, Integrated Planning and Policy Committee, NIDCD
1994-99	Chair, NIDCD Nonsyndromic Hereditary Hearing Impairment Consortium
1995-99	Member, NIH/NIDCD Advisory Council
1998	Chair, NIDCD Work Group on Single and Multiple Project Grants
2000	Ad Hoc member, NIH IFCN-6 Study Section
2000-05	Member, NIH National Advisory Council for Genome Research
2002-05	Member, NHGRI Advisory Committee for the International HapMap Project
2002-	Member, NHGRI Advisory Committee for Research Training Programs
2006	Member, NIH Foundation GAIN Review Panel

### LSUHSC

1984-87	Member, Neurosciences Steering Committee, LSU Health Sciences Center
1986-00	Member, Department of Biometry and Genetics Admissions committee
1988-93	Member, Graduate Advisory Council, LSU Health Sciences Center
1992-	Member, Neuroscience Center Advisory Board, LSU Health Sciences Center
1992-95	Board Member, LSU Health Sciences Center Sigma Xi club
1992-99	Chair, Department of Biometry and Genetics Promotions Committee
1995-	Chair, Center for Molecular and Human Genetics Advisory Board, LSU Health Sciences Center
1995-	Member, Stanley S. Scott Cancer Center Steering Committee, LSU Health Sciences Center

1997-99 Member, LSU School of Medicine Faculty Awards and Fellowships Committee  
 1997- Member, LSU School of Medicine Curriculum Committee: Evaluation Working Group  
 1998- Member, LSU School of Medicine Admissions Committee: Scholarships Subcommittee  
 1997- Member, LSU School of Medicine Administrative Council  
 1999 Member, LSU School of Medicine Research Space Policy Committee  
 1999- Member, LSU School of Dentistry Administrative Council  
 1999-00 Member, Medical Neuroscience Evaluation Working Group  
 1999-00 Member, Search Committee for Chair of Pediatrics  
 2000- Member, Steering and Evaluation Committee, Research Institute for Children  
 2001 Chair, Search Committee for Director of Kresge Hearing Research Laboratory  
 2004 Member, Search Committee for Director of Gene Therapy Program  
 2005 Member, Search Committee for Chair of Cell Biology and Anatomy

**Organizations: HGM, ASHG, APHMG, ARO, FASEB, ACMG, ABMG & IGES**

1986-93 Chair, Committee on Linkage and Gene Order, International Workshops on Human Gene Mapping (HGM9, 9.5, 10, 10.5, 11)  
 1988, 95, 99 Session Moderator, American Society of Human Genetics (ASHG) meetings  
 1990-93 Member, ASHG Program Committee (Chair, 1993)  
 1993 Member, ASHG Task Force for Public Awareness  
 1994 Member, ASHG Database Committee  
 1995-97 Member, ASHG Nominations Committee (Chair, 1997)  
 1995- LSUHSC Representative, Association of Professors of Human and Medical Genetics (APHMG)  
 1997-98 APHMG Representative, Genetics Workforce Assessment Committee  
 1997-98 Member, Association for Research in Otolaryngology (ARO) Nominations Committee  
 1998-2000 Member, ARO Program Committee  
 1999-2002 Member, ASHG Education and Information Committee (Chair, 2001-02)  
 1999-2002 Member, FASEB Research Conferences Advisory Committee  
 2000-2002 Member, International Genetic Epidemiology Society (IGES) Program Committee  
 2000- Member, APHMG Council  
 2000-02 Member, ASHG Public Policy Committee  
 2001-03 Member, American College of Medical Genetics (ACMG) Education/CME Committee  
 2002 Member, American Board of Medical Genetics (ABMG) Nominations Committee  
 2003-05 Member, ASHG Board of Directors  
 2004-2006 Member, ARO Awards Committee  
 2004-2006 President, APHMG

**Editorial Boards**

1989-2002 Member, Editorial Board, Genomics  
 1996-2005 Member, Editorial Board, Human Heredity  
 1998-2005 Member, Editorial Board, Journal of the Association for Research in Otolaryngology  
 2003-2006 Member, Editorial Board, American Journal of Human Genetics

**Symposia and Workshops Organized**

1990 Organizer and Chair, International Workshop on Standardizing Genetic Maps, NIH, Bethesda, MD  
 1991 Organizer and Moderator, "Index Markers," Eleventh International Workshop on Human Gene Mapping, London, England  
 1991 Organizer and Moderator, "Linkage strategies for high resolution maps and complex traits," International Congress of Human Genetics, Washington, DC  
 1993 Organizer and Moderator, Genetic Awareness Symposium "The Genetic Health of our Children", American Society of Human Genetics, New Orleans, LA

- 1993 Organizer and Moderator, Distinguished Speakers' Symposium "Genes and the Brain", American Society of Human Genetics, New Orleans, LA
- 1995 Organizer and Moderator, "Genes and Hearing Loss", Association for Research in Otolaryngology, St. Petersburg Beach, FL
- 1997 Co-Organizer and Moderator, International Hereditary Ataxia meeting, Montreal, Canada
- 1998 Co-Organizer, Kresge Symposium "Of Mice and Men: Genes, Deafness, and Otolaryngology", New Orleans, LA
- 1999 Co-Organizer, Workshop on Friedreich Ataxia Research, NIH, Bethesda, MD
- 1999 Organizer and Moderator, Self Help for Hard-of-Hearing People (SHHH) Scientific Symposium "Understanding Genes: Is my hearing loss genetic?" New Orleans, LA
- 1999 Organizer and Moderator, Congres Mondial Public Symposium "Genetics of the Acadian People", held on August 9 at McNeese State University, Lake Charles, LA
- 2001 Organizer and Participant, Jubilee Public Symposium "Genetics of the Acadian People", held on March 10 at Nicholls State University, Thibodaux, LA
- 2001 Invited participant in the Bonnie J. Bourg Lecture, "Women in Medicine", held on March 20 at Nicholls State University, Thibodaux, LA
- 2001 Organizer and Co-Chair, Marriott Foundation meeting "Potential therapies for mitochondrial disorders", held on November 30 in New Orleans, LA
- 2002 Organizer, International Genetic Epidemiology Society meeting and Genetic Analysis Workshop 13, November, New Orleans
- 2003 Co-organizer and Moderator, International Friedreich Ataxia meeting, February, NIH
- 2003 Organizer and Moderator, Genetics Center Public Symposium "Genetics: Your Family & Your Health," held on November 15 at LSUHSC Dental School, New Orleans

**Other Responsibilities**

- 1975-76 Consultant to Canberra College of Advanced Education on statistics and computer programs for course on differentiation among Australian Aboriginal populations
- 1984- Consultant Geneticist to Louisiana Chapter National Ataxia Foundation
- 1986- Member, Medical and Research Advisory Board, National Ataxia Foundation
- 1987-89 Editor, Human Gene Mapping Library, New Haven, CT
- 1989-95 Editor, Genome DataBase, Johns Hopkins University, Baltimore, MD
- 1990 Member, Genetics Review Committee for the Retinitis Pigmentosa Foundation
- 1990 Member, Genetic Recombinant Advisory Committee to Genome Data Base, Baltimore, MD
- 1991 Chair, Session on Genetic Maps, American Psychopathological Association, New York, NY
- 1992 Member, Discussion panel for Retinitis Pigmentosa Foundation Workshop on "The role of the cilium in Usher syndrome," Baltimore, MD
- 1994 Member, Department of Energy review committee for Genome Centers
- 1994- Member, Editorial Committee, Genome Interactive Databases (GENEATLAS), Paris
- 1994- Member, Scientific Review Committee, National Organization for Hearing Research
- 1994-96 Consultant, Millennium Pharmaceuticals, Inc., Boston, MA
- 1998- Member, Louisiana Medical Genetics Advisory Committee
- 1999- Member, Board of Directors, Friedreich Ataxia Research Alliance
- 2001 Member, Kresge Hearing Research Institute Review Committee, University of Michigan
- 2001- Member, Board of Directors, Center for the Study and Treatment of Usher Syndrome, Boys Town National Research Hospital, Omaha, NE
- 2002- Member, Board of Trustees, Virginia Merrill Bloedel Hearing Research Center, University of Washington, Seattle, WA

**PROFESSIONAL ASSOCIATIONS**

- American Society of Human Genetics
- American College of Medical Genetics

## TEACHING EXPERIENCE

1. Graduate courses:
  - Biochemical Genetics, LSU Health Sciences Center, 1986-
  - Population Genetics, LSU Health Sciences Center, 1985-
  - Linkage Analysis, LSU Health Sciences Center, 1990-
  - Genetic Epidemiology and Statistical Genetics, LSU Health Sciences Center, 1995-
  - Human Genetics, LSU Health Sciences Center, 1997-
  - Basic Human Genetics for Medical Technology students, LSU Health Sciences Center, 1997-
  - Human Genetics for Audiologists and Speech Pathologists, Nova Southeastern University, Fort Lauderdale, FL, 2000-2004
2. Medical School courses:
  - Population genetics and mapping, LSU Health Sciences Center, 2004-
3. Graduate Lectures in Human Genetics, LSU Health Sciences Center:
  - Audiology students, 1994-
  - Neuroscience students, 1994-
  - ENT, Neurology, and Psychiatry Residents, 1993-
4. Continuing Education Courses
  - "Understanding Genetics", Louisiana Technical College Speech Pathologists and Audiologists, Ruston, March, 2000
  - "Genetics: The Basis for Future Health", LPHA Conference, Lafayette, April, 2000
  - "Genetics and the Public's Health", Office of Public Health Mini Course, Lafayette, May, 2000
5. Guest lecturer:
  - "Genetic-Epidemiologic Studies of Complex Diseases", Cold Spring Harbor, New York, NY, June, 1994, 1996, 1998, 2000.
  - "Genetics of Hearing Loss." Workshop on Identification and Management of hearing-impaired infants and children: ABR, Emissions, Computer assisted behavioral testing, New Orleans, Louisiana, June, 1994-2004

## GRADUATE STUDENTS

### Present Trainees

<u>Name</u>	<u>Position</u>	<u>Training Period</u>
J. Lentz	graduate student	2002-
S. Ng	graduate student	2002-
S. Sampath	graduate student	2004-
D. Stoute	graduate student	2005-

### Past Trainees

<u>Name</u>	<u>Degree Obtained</u>	<u>Present Position</u>
C. I. Amos	Ph.D., 1985	Professor, M.D. Anderson Cancer Center, Houston
M. Lu	M.S., 1987	Researcher, Oregon Health and Science University
A. Todorov	Ph.D., 1992	Associate Professor, Washington University, St. Louis
P. Limprasert	Ph.D., 1995	Head, Human Genetics Unit, Prince of Songkla Univ., Thailand
S. Premkumar	Ph.D., 1996	Postdoctoral Fellow, Boston University, Massachusetts
D. Mandal	Ph.D., 1996	Assistant Professor, LSU Health Sciences Center, New Orleans
J. Priest	Ph.D., 1996	Asst. Laboratory Director, Johns Hopkins, Baltimore
C.M. Justice	Ph.D., 1998	Postdoctoral Fellow, NHGRI/NIH
M. DeAngelis	Ph.D., 1999	Research Assistant Professor, Harvard
S. Drury	Ph.D., 2000	Resident, Tulane University Health Sciences Center

S. Savas (Postdoctoral)	1999-2002	Postdoctoral Fellow, Toronto
D. Ragusa	Ph.D., 2002	Manager, Anthrogenesis Corp., Baton Rouge
X. Cheng	Ph.D., 2002	Postdoctoral Fellow, Baylor College of Medicine, Houston
J. Abadie	M.S., 2004	Research Associate, Department of Surgery, LSUHSC
D. Winnier	Ph.D., 2004	Postdoctoral Fellow, Southwest Foundation, San Antonio
G. Gaikwad	Ph.D., 2004	Resident, LSU Health Sciences Center

## BIBLIOGRAPHY

### Books

1. **B.J.B. Keats**, N.E. Morton, D.C. Rao and W.R. Williams. A source book for linkage in man, Johns Hopkins University Press, Baltimore (1979).
2. **B.J.B. Keats**. Linkage and chromosome mapping in man, The University Press of Hawaii, Honolulu (1981).
3. **B.J.B. Keats**, A.N. Popper and R.R. Fay. Genetics and Auditory Disorders, Springer-Verlag, New York (2002).
4. M.E. Hartnett, M. Trese, A. Capone, **B.J.B. Keats**, S.M. Steidl. Pediatric Retina. Lippincott, Williams & Wilkins, Philadelphia (2005).

### Peer-Reviewed Articles and Chapters

1. **B.J.B. Keats**, N.M. Blake, R.L. Kirk, D.S. Jacobs, D.G. Johnson. Genetic variation at the third locus of phosphoglucomutase in placentas from Australia and Papua New Guinea. *Aust. J. Exp. Biol. Med. Sci.* 51:857-860 (1973).
2. N.E. Morton and **B.J.B. Keats**. Human microdifferentiation in the Pacific. In Origin of the Australians, R.L. Kirk and A.G. Thorne (eds.), pp. 379-399, Australian Institute of Aboriginal Studies, Canberra (1976).
3. **B.J.B. Keats**. Genetic structure of the indigenous populations in Australia and New Guinea. *J. Hum. Evol.* 6:319-339 (1977).
4. **B.J.B. Keats**, N.E. Morton, D.C. Rao. Likely linkage: Inv with Jk. *Hum. Genet.* 39:157-159 (1977).
5. R.L. Kirk, **B.J.B. Keats**, N.M. Blake, E.M. McDermid, F. Ala, M. Karimi, B. Nickbin, H. Shabazi, J. Kmet. Genes and people in the Caspian Littoral: a population genetic study in northern Iran. *Am. J. Phys. Anthropol.* 46:377-390 (1977).
6. **B.J.B. Keats**, N.E. Morton, D.C. Rao. Possible linkages (lod score over 1.5), and a tentative map of the Jk-Km linkage group. In Human Gene Mapping 4: Fourth International Workshop on Human Gene Mapping, Birth Defects: Original Article Series, XIV, 4, 1978, The National Foundation, New York, also in *Cytogenet. Cell Genet.* 22:304-308 (1978).
7. D.C. Gajdusek, W.C. Leyshon, R.L. Kirk, N.M. Blake, **B.J.B. Keats**, E.M. McDermid. Genetic differentiation among populations in Western New Guinea. *Am. J. Phys. Anthropol.* 48:47-64 (1978).
8. J.F. Jackson, J.E. Whittington, R.D. Currier, P.I. Terasaki, N.E. Morton, **B.J.B. Keats**. Genetic linkage and Spinocerebellar ataxia. In Advances in Neurology, vol. 21, R.A.P. Kark, R.N. Rosenberg and L.J. Schut (eds.), Raven Press, New York, pp. 315-318 (1978).
9. D.C. Rao, **B.J.B. Keats**, N.E. Morton. Characteristics of a linkage heterogeneity test. In Human Gene Mapping 4: Fourth International Workshop on Human Gene Mapping, Birth Defects: Original Article Series, XIV, 4, 1978, The National Foundation, New York, also in *Cytogenet. Cell Genet.* 22:711-713 (1978).
10. D.C. Rao, **B.J.B. Keats**, N.E. Morton, S. Yee, R. Lew. Variability of human linkage data. *Am. J. Hum. Genet.* 30:516-529 (1978).
11. **B.J.B. Keats**. Another elliptocytosis locus on chromosome 1? *Hum. Genet.* 50:227-230 (1979).
12. D.C. Rao, **B.J.B. Keats**, J.M. Lalouel, N.E. Morton, S. Yee. A maximum likelihood map of chromosome 1. *Am. J. Hum. Genet.* 31:680-696 (1979).
13. S. Serjeantson, S.R. Wilson, **B.J.B. Keats**. On the genetics of leprosy. *Ann. Hum. Biol.* 6:375-393 (1979).
14. J.E. Whittington, **B.J.B. Keats**, J.F. Jackson, R.D. Currier, P.I. Terasaki. Linkage studies on glyoxalase 1 (GLO), pepsinogen-5 (PG), Spinocerebellar Ataxia (SCA1), and HLA. *Cytogenet. Cell Genet.* 28:145-150 (1980).
15. J. Goudsmit, B.J. White, L.R. Weitkamp, **B.J.B. Keats**, C.H. Morrow, D.C. Gajdusek. Familial Alzheimer's disease in two kindreds of the same geographic and ethnic origin: a clinical and genetic study. *J. Neurol. Sci.* 49:79-89 (1981).
16. **B.J.B. Keats**, N.E. Morton, D.C. Rao. Reduction of physical assignments to a standard lod table: chromosome 1. *Hum. Genet.* 56:353-359 (1981).

17. **B.J.B. Keats**. Genetic mapping: chromosomes 2-5. *Hum. Genet.* 58:271-275 (1981).
18. **B.J.B. Keats**. Genetic mapping: chromosomes 6-22. *Am. J. Hum. Genet.* 34:730-742 (1982).
19. **B.J.B. Keats**. Genetic mapping: X chromosome. *Hum. Genet.* 64:28-32 (1983).
20. L.R. Weitkamp, L. Nee, **B.J.B. Keats**, R.J. Polinsky, S. Guttormsen. Alzheimer's Disease: evidence for susceptibility loci on chromosomes 6 and 14. *Am. J. Hum. Genet.* 35:443-453 (1983).
21. J.B. Graham, C.S. Edgell, H. Fleming, K.K. Namboodiri, **B.J.B. Keats**, R.C. Elston. Coagulation Factor XIII: A useful polymorphic genetic marker. *Hum. Genet.* 67:132-135 (1984).
22. L.J. Ward, R.C. Elston, **B.J.B. Keats**, J.B. Graham. PGM1 null allele detected in a Caucasian mother-son pair. *Hum. Hered.* 35:178-181 (1985).
23. R.C. Elston, **B.J.B. Keats**. Genetic Analysis Workshop III: Sib pair analyses to determine linkage groups and to order loci. *Genet. Epidemiol.* 2:211-213 (1985).
24. **B.J.B. Keats**, R.C. Elston. Determination of the order of loci on the short arm of chromosome 11 using two and three locus linkage analyses of pedigree and sib pair data. *Genet. Epidemiol. (suppl)* 1:147-152 (1986).
25. **B.J.B. Keats**, R. C. Elston, E. Andermann. Pedigree discriminant analysis of two French-Canadian Tay Sachs families. *Genet. Epidemiol.* 4:77-85 (1987).
26. **B.J.B. Keats**, L.J. Ward, M. Lu, S. Krieger, M.A. Wilensky, C.J. Forster-Gibson, M. Roy, M. Monte, A. Barbeau, N.E. Simpson, H. Eiberg, P. Tippett, R. Williamson, S. Chamberlain. Linkage studies of Friedreich ataxia by means of blood group and protein markers. *Am. J. Hum. Genet.* 41:627-634 (1987).
27. J. Ott, C. Aston, M. Baur, T. Bishop, A. Chakravarti, J. Clayton, J.H. Edwards, R.C. Elston, **B.J.B. Keats**, M. Lathrop, M. Neugebauer, L. Pascoe. Detection and estimation of linkage, especially multipoint mapping. In Human Genetics. Proceedings of the Seventh International Congress 1986, Springer, Berlin and New York, pp. 188-189 (1987).
28. **B.J.B. Keats**, P.M. Conneally, J.M. Lalouel. Report of the committee on linkage data and gene order. In Human Gene Mapping 9: Ninth International Workshop on Human Gene Mapping. *Cytogenet. Cell Genet.* 46:339-343 (1987).
29. **B.J.B. Keats**, J. Ott, P.M. Conneally. Report of the committee on linkage and gene order. In Human Gene Mapping 9.5: Update to the Ninth International Workshop on Human Gene Mapping. *Cytogenet. Cell Genet.* 49:224-226 (1988).
30. N. Cox, T. Reich, J. Rice, R. Elston, J. Shober, **B.J.B. Keats**. Segregation and linkage analyses of bipolar and major depressive illnesses in multigenerational pedigrees. *J. Psych. Res.* 23:109-123, 1989.
31. S. Chamberlain, J. Shaw, J. Wallis, A. Rowland, L. Chow, M. Farrall, R. Williamson, **B.J.B. Keats**, A. Richter, S. Melancon, T. Deufel, J. Berciano. Genetic homogeneity at the Friedreich's ataxia locus on chromosome 9. *Am. J. Hum. Genet.* 44:518-524, 1989.
32. **B.J.B. Keats**, L.J. Ward, J. Shaw, A. Wickremasinghe, S. Chamberlain. The Acadian and Classical forms of Friedreich ataxia are most probably caused by mutations at the same locus. *Am. J. Med. Genet.* 33:266-268 (1989).
33. C.I. Amos, R.C. Elston, **B.J.B. Keats**. Information for detecting linkage when sampling affected individuals. In Multipoint Mapping and Linkage Based upon Affected Pedigree Members: Genetic Analysis Workshop 6, pp 207-212, Alan R. Liss: New York (1989).
34. M.L. Marazita, **B.J.B. Keats**, M.A. Spence, R.S. Sparkes, L.L. Field, M.C. Sparkes, M. Crist. Mapping studies of the serum cholinesterase-2 locus (CHE2). *Hum. Genet.* 83:139-144 (1989).
35. **B.J.B. Keats**, J. Ott, P.M. Conneally. Report of the committee on linkage and gene order. In Human Gene Mapping 10: Tenth International Workshop on Human Gene Mapping. *Cytogenet. Cell Genet.* 51:459-502 (1989).
36. N.E. Morton, **B.J.B. Keats**, P.A. Jacobs, T. Hassold, D. Pettay, J. Harvey, V. Andrews. A centromere map of the X chromosome from trisomies of maternal origin. *Ann. Hum. Genet.* 54:39-47 (1990).
37. C.I. Amos, R.C. Elston, G.E. Bonney, **B.J.B. Keats**, G. S. Berenson. A multivariate method for detecting genetic linkage with application to the study of a pedigree with an adverse lipoprotein phenotype. *Am. J. Hum. Genet.* 47:247-254 (1990).

38. **B.J.B. Keats**, S.L. Sherman, N.E. Morton, E.B. Robson, K.H. Buetow, P.E. Cartwright, A. Chakravarti, U. Francke, P.P. Green, J. Ott. Guidelines for Human Linkage Maps: An International System for Human Linkage Maps (ISLM, 1990). *Ann. Hum. Genet.* 55:1-6 (1991) and *Genomics* 9:557-560 (1991).
39. **B.J.B. Keats**, S.L. Sherman, J. Ott. Report of the committee on linkage and gene order. In Human Gene Mapping 10.5: Update to the Tenth International Workshop on Human Gene Mapping. *Cytogenet. Cell Genet.* 55:387-394 (1990).
40. S.L. Sherman, N. Takaesu, S.B. Freeman, M. Grantham, C. Phillips, R.D. Blackston, P.A. Jacobs, A.E. Cockwell, V. Freeman, I. Uchida, M. Mikkelsen, D.M. Kurnit, M. Buraczynska, **B.J.B. Keats**, T.J. Hassold. Trisomy 21: Association between reduced recombination and non-disjunction. *Am. J. Hum. Genet.* 49:608-620 (1991).
41. **B.J.B. Keats**, M.S. Pollack, A. McCall, M.A. Wilensky, L.J. Ward, M. Lu, H.Y. Zoghbi. Tight linkage of the gene for spinocerebellar ataxia to D6S89 on the short arm of chromosome 6 in a kindred for which close linkage to both HLA and F13A1 is excluded. *Am. J. Hum. Genet.* 49:972-977 (1991).
42. **B.J.B. Keats**, S.L. Sherman, J. Ott. Report of the committee on linkage and gene order. In Human Gene Mapping 11: Eleventh International Workshop on Human Gene Mapping. *Cytogenet. Cell Genet.* 58:1097-1102 (1991).
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#### Abstracts

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64. G. Gaikwad, J. Rao, B.J.B. Keats. Parkin mutations found in Louisiana Parkinson disease patients but not in those of Acadian ancestry. *Am. J. Hum. Genet.* 73:368 (2003).
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67. L.M. Hern, R. Sharma, M. Gomez, S. Shah, M. Delatycki, L. Pianese, A. Monticelli, B.J.B. Keats, S.I. Bidichandani. Replication mediated instability of the GAA triplet repeat mutation in Friedreich ataxia. *Am. Soc. Hum. Genet. Abstract # 1380* (2004).

## Invited Presentations

- "Maximum likelihood estimation of the human linkage map." LSU Health Sciences Center, New Orleans, October, 1983.
- "Genetic studies in hereditary Ataxias." LSU Health Sciences Center, New Orleans, January, 1984.
- "Effects of random drift and selection on allele frequencies." Tulane Medical Center, New Orleans, May, 1984.
- "Hereditary Ataxia in Acadiana." German-Acadian Coast Historical and Genealogical Society, Reserve, Louisiana, May, 1984.
- "Hereditary Ataxia and the Cajun connection." Governor's Conference for Disabled Persons, Baton Rouge, October, 1984.
- "Pedigree discriminant analysis applied to two French-Canadian Tay Sachs families." LSU Health Sciences Center, New Orleans, November, 1984.
- "Friedreich Ataxia: The Cajun Connection." National Ataxia Foundation Annual Membership meeting, New Orleans, February, 1985.
- "The status of the human gene map." John Curtin School of Medical Research, Canberra, January, 1986.
- "Friedreich Ataxia in the Acadian population of south-western Louisiana." Southern Genetics Group, Navarre Beach, Florida, July, 1986.
- "Constructing linkage maps of the human chromosomes: Data synthesis and methods of analysis." LSU Health Sciences Center, New Orleans, February, 1987.
- "Setting up a data base for lod scores and linkage maps." Yale University School of Medicine, New Haven, April, 1987.
- "Linkage maps of the human genome." Tulane University School of Medicine, New Orleans, May, 1987.
- "New developments in gene mapping." Tulane University School of Medicine, New Orleans, November, 1987.
- "Carrier detection in Friedreich Ataxia." National Ataxia Foundation meeting, Minneapolis, February, 1988.
- "Tracking the gene for Friedreich ataxia." Louisiana Chapter National Ataxia Foundation meeting, New Orleans, September, 1988.
- "The human gene map - an update." Tulane University School of Medicine, New Orleans, November, 1988.
- "Gene Mapping and Friedreich ataxia." LSU Health Sciences Center, New Orleans, January, 1989.
- "Integrating linkage maps from different sources." NIH Workshop on Human Genetic Maps, Bethesda, February, 1989.

"Carrier detection in Friedreich ataxia." National Ataxia Foundation meeting, San Diego, February, 1989.

"Approaches to mapping the human genome." Department of Mathematics, University of Newcastle, Australia, July, 1989.

"Genetic maps of the human genome." Queensland Institute of Medical Research, Brisbane, Australia, August, 1989.

"Genetics and Friedreich ataxia." Louisiana Chapter National Ataxia Foundation meeting, Lafayette, September, 1989.

"Mapping the human genome." Tulane University School of Medicine, New Orleans, November, 1989.

"Linkage disequilibrium and locating disease genes." LSU Health Sciences Center, New Orleans, February, 1990.

"Mapping genes for the hereditary ataxias." National Ataxia Foundation meeting, New Orleans, March, 1990.

"Genetic mapping of the human genome." National Society of Genetic Counselors meeting, Destin, Florida, July, 1990.

"A framework map of chromosome 19." Chromosome 19 Workshop, Charleston, South Carolina, August, 1990.

"Tracking disease genes in Acadiana: Ataxia and Hearing Impairment." Terrebonne Genealogical Society, Houma, Louisiana, November, 1990.

"Mapping the gene for Usher Syndrome Type I." Association for Research in Otolaryngology Usher Syndrome Workshop, St. Petersburg, Florida, February, 1991.

"Genetic research and the hereditary ataxias." National Ataxia Foundation, Little Rock, Arkansas, February, 1991.

"Framework linkage maps of the human chromosomes." Baylor College of Medicine, Houston, Texas, April, 1991.

"Linkage studies may be misleading." International Symposium on Ataxia, Boston, Massachusetts, April, 1991.

"Precise localization of the gene for Charcot-Marie-Tooth Disease on chromosome 17." Muscular Dystrophy Association Charcot-Marie-Tooth Disease Workshop, Tucson, Arizona, June, 1991.

"Framework markers." Eleventh International Workshop on Human Gene Mapping, London, England, August, 1991.

"Mapping disease genes in the Acadian population." Jefferson Genealogical Society, Metairie, Louisiana, September, 1991.

"Efficient methods for updating linkage maps." International Congress of Human Genetics, Washington, DC, October, 1991.

"Molecular heterogeneity of disease mutations: Selection and random drift revisited". Tulane University School of Medicine, New Orleans, Louisiana, November, 1991.

"Charcot-Marie-Tooth Neuropathy: The detrimental consequences of a duplicated DNA segment". LSU Health Sciences Center, New Orleans, Louisiana, December, 1991.

"History of Genetic Mapping." American Psychopathological Association, New York, March, 1992.

"Identifying genes for diet preference in rats." Obesity Research Program, LSU Health Sciences Center, New Orleans, Louisiana, May, 1992.

"A framework map of chromosome 15." Chromosome 15 Workshop, Tucson, Arizona, June, 1992.

"Localization of the gene for Usher Syndrome Type 1 in the Acadian Population." Southern Genetics Group, Destin, Florida, July, 1992.

"The Human Genome Linkage Map: An efficient tool for locating genes that underlie disorders of the nervous system." Neuroscience Center of Excellence, LSU Health Sciences Center, New Orleans, Louisiana, October, 1992.

"Localization of the gene for Usher Syndrome Type 1 in Acadian families on the genetic linkage map of chromosome 11." Association for Research in Otolaryngology, St. Petersburg Beach, Florida, February, 1993.

"Approaches to the Identification of Genes for Hearing Loss." Tulane University School of Medicine, New Orleans, Louisiana, May, 1993.

"The Human Genome Project and mapping disease genes." DNA Science Workshop (Cold Spring Harbor Laboratory), New Orleans, June, 1993.

"Chromosomal localization of the gene causing deafness in the *dn/dn* mouse." Association for Research in Otolaryngology, St. Petersburg Beach, Florida, February, 1994.

"Progress towards the identification of the gene for Usher syndrome type I in the Acadian population." Marshfield Medical Research Foundation, Marshfield, Wisconsin, May, 1994.

"Localization of genes for hearing loss." Department of Pathology, Children's Hospital, New Orleans, Louisiana, June, 1994.

"The deafness locus maps to mouse chromosome 19." Southern Genetics Group, Litchfield by the Sea, South Carolina, July, 1994.

"Interference, Heterogeneity, and Disease Gene Mapping." Institute for Mathematics and its Applications, University of Minnesota, Minneapolis, July, 1994.

"Genes and Hearing Loss." Cued Speech Support Group, Gonzales, Louisiana, August, 1994.

"Acadian Kindreds in Southwestern Louisiana." Millennium Pharmaceuticals, Inc., Boston, September, 1994.

"Genetics of Hair Cell Loss". Hearing and Hair Cell-A-Bration, New Orleans, September, 1994.

"Gene Mapping in the *dn/dn* mouse." American Society of Human Genetics Workshop, Montreal, October, 1994.

"Genetics of Hearing Loss." American Speech-Language-Hearing Association, New Orleans, November, 1994.

"Genes and Health Care." National Finance Center, New Orleans, January, 1995.

"Genes and Hearing Impairment: Exciting advances in mouse and man." Association for Research in Otolaryngology, St. Petersburg Beach, February, 1995.

"Searching for disease genes." Lafayette High School, Lafayette, February, 1995.

"Keys to identifying deafness genes and their carriers." Colorado Otology Audiology Conference, Breckenridge, March, 1995.

"The search for the Friedreich ataxia gene." National Ataxia Foundation, Huntsville, March, 1995.

"Craniosynostosis - A molecular perspective." Children's Hospital, New Orleans, April, 1995.

"The genetics of serious affective disorders." Manic-Depressive Support Group, DePaul Hospital, New Orleans, September, 1995.

"Genetic disorders of the auditory system." Kresge Symposium, New Orleans, Louisiana, September, 1995.

"Towards the identification of the deafness locus (*dn*) on mouse chromosome 19." Association for Research in Otolaryngology midwinter research meeting, St. Petersburg Beach, February, 1996.

"Molecular Genetic Diagnostics for Hearing Loss." Colorado Otology Audiology Conference, Breckenridge, March, 1996.

"The search for the Friedreich ataxia gene is over." National Ataxia Foundation, Little Rock, March, 1996.

"Genes and Profound Sensorineural Hearing Impairment." NIDCD, National Institutes of Health, Bethesda, April, 1996.

"Hereditary Hearing Loss." American Academy of Audiology, Salt Lake City, April, 1996.

"Genetics and Hearing Impairment." Louisiana Audiology Group, New Orleans, May, 1996.

"Linkage analysis and cancer susceptibility genes." Stanley S. Scott Cancer Center, New Orleans, July, 1996.

"Inheritance Patterns and Breast Cancer." Louisiana Breast Cancer Task Force, New Orleans, September, 1996.

"Ataxia and the expanding CAG's and GAA's." Louisiana Chapter of National Ataxia Foundation, Lafayette, September, 1996.

"Mapping disease genes in the Acadian population of southwestern Louisiana." American Society of Human Genetics, San Francisco, October, 1996.

"Usher Syndrome." Louisiana School for the Deaf, Baton Rouge, January, 1997.

"Genetics of Ectodermal Dysplasia." LSU School of Dentistry, New Orleans, January, 1997.

"The deafness mutation on mouse chromosome 19 is associated with an inversion." Association for Research in Otolaryngology midwinter research meeting, St. Petersburg Beach, February, 1997.

"Genetics of Friedreich ataxia." National Ataxia Foundation, Jackson, February, 1997.

"Genetics in Deafness and Hearing Loss." Self Help for Hard of Hearing People (SHHH), New Orleans, March, 1997.

"Identifying Genes for Hearing Impairment in Isolated and Inbred Populations." University of Michigan, March, 1997.

"Genetics and Hearing Impairment." American Academy of Audiology, Fort Lauderdale, April, 1997.

"Population studies of the GAA trinucleotide repeat in the Friedreich ataxia gene." International Hereditary Ataxia meeting, Montreal, May, 1997.

"Hearing Loss Management and Genetics." International SHHH Convention, Phoenix, June, 1997.

"Genes for Hearing Impairment in Mouse and Man." University of California, Irvine, July, 1997.

"Genes and hearing impairment." W.I.T.: A parent support group for deaf and hard of hearing children. Gonzales, January, 1998.

"Candidates for the deafness gene (*dn*) on mouse chromosome 19." Association for Research in Otolaryngology midwinter research meeting, St. Petersburg Beach, February, 1998.

"Genetics of auditory neuropathies." Conference on Auditory Neuropathies, Lake Arrowhead, March, 1998.

"Genetic studies in Acadiana." LSUHSC School of Dentistry, April, 1998.

"Variability of the GAA trinucleotide repeat in the Friedreich ataxia gene." Southern Genetics Group meeting, Fort Walton Beach, July, 1998.

"Variation in GAA and CAG repeat lengths." Louisiana Chapter of National Ataxia Foundation, Lafayette, September, 1998.

"Syndromes, Genes, and Deafness." Kresge Symposium "Of Mice and Men: Genes, Deafness, and Otolaryngology", New Orleans, September, 1998.

"Interpreting DNA sequence." Tulane University School of Medicine, October, 1998.

"Friedreich ataxia: From a GAA repeat expansion to iron deficiency in yeast." Association for Research in Otolaryngology midwinter research meeting, St. Petersburg Beach, February, 1999.

"GAA repeat expansions." NIH Friedreich ataxia meeting, Bethesda, April, 1999.

"Identifying genes in the Acadian population." Department of Pathology, Children's Hospital, New Orleans, May, 1999.

"Genetic testing for connexin 26 mutations." CDC workshop on genetic testing for hereditary hearing impairment, Atlanta, June, 1999.

"Genes and Hearing Impairment." Self Help for Hard of Hearing (SHHH) People, New Orleans, June, 1999.

"Genetic Links and Cajun Connections." Genetics of the Acadian People, Lake Charles, August, 1999.

"Instability of the GAA repeat expansion in Friedreich ataxia." Louisiana Chapter National Ataxia Foundation annual meeting, Baton Rouge, September, 1999.

"Hereditary motor and sensory neuropathies associated with hearing impairment." International Neurophysiological Association of Slovenia, Ljubljana, October, 1999.

"Gene Identification in the Acadians of South Louisiana." Virginia Commonwealth University, Richmond, March, 2000.

“GAA Repeat Expansions and Frataxin.” National Ataxia Foundation, Biloxi, March, 2000.  
 “Trinucleotide Repeat Expansions and Evolution.” Environmental Mutagens Society meeting, New Orleans, April, 2000.  
 “Trinucleotide Repeat Expansions and the Hereditary Ataxias.” Tulane Medical Center, New Orleans, April, 2000.  
 “Genes and Usher Syndrome.” Kresge Symposium “New Developments in Hair Cell Micro-Mechanics and Otoacoustic Emissions”, New Orleans, October, 2000.  
 “Genes underlying Usher Syndrome.” Department of Biochemistry, Tulane University Health Sciences Center, New Orleans, November, 2000.  
 “Gene Identification in Usher Syndrome: The Eyes have it as well as the Ears.” Department of Physiology, University of Wisconsin, Madison, November, 2000.  
 “Genetics in Today’s Medicine.” LSUHSC Alumni Association, New Orleans, June, 2001.  
 “Genes and Hearing Loss.” Division of Biomedical Sciences, University of Auckland, New Zealand, July, 2001.  
 “The Human Genome, Syndromes and Hearing Loss.” New Zealand Audiological Society, Christchurch, New Zealand, July, 2001.  
 “Genetic Testing and Intervention Strategies for Hearing Loss.” New Zealand Audiological Society, Christchurch, New Zealand, July, 2001.  
 “Introduction to Genes and Hearing Loss.” A.G. Bell Association for the Deaf and Hard of Hearing, Bethesda, July, 2001.  
 “Connexin 26 and other genes for hearing loss.” Hayward Genetics Center, Tulane Medical School, New Orleans, September, 2001.  
 “Disease associated polymorphisms in the Acadian population.” Department of Biological Sciences, Louisiana State University, Baton Rouge, October, 2001.  
 “The Usher syndrome type 1C (USH1C) gene.” Molecular Biology of Hearing and Deafness, Bethesda, October, 2001.  
 “Genetics, Genomes, and Medicine.” Society of Actuaries, New Orleans, October, 2001.  
 “Genes and syndromic hearing loss.” American Speech-Language-Hearing Association, New Orleans, November, 2001.  
 “Founder mutations in the Acadian population: Friedreich ataxia and Usher syndrome.” Gene Therapy Center, Tulane Medical School, New Orleans, December, 2001.  
 “Genes and Genomics: Evolving Health Care.” Joint Plenary Session of Southern Societies Clinical Research Meeting, New Orleans, February, 2002.  
 “Acadian Genetics.” American College of Medical Genetics symposium for High School teachers and students, New Orleans, March, 2002.  
 “Genetics and Hearing Loss.” Utah Hearing and Speech Pathology Association, Salt Lake City, March, 2002.  
 “Genetics and Deafness.” International Session, American Academy of Audiology, Philadelphia, April, 2002.  
 “Genetics of Hearing Loss.” National Symposium on Hearing in Infants, Breckenridge, July, 2002.  
 “The Usher syndromes.” Foundation Fighting Blindness, Chicago, August, 2002.  
 “Mouse Models and Usher syndrome.” American College of Medical Genetics / March of Dimes Symposium on Deafness, San Diego, March 2003.  
 “Mouse models in Hearing Loss.” Hayward Genetics Center, Tulane Medical School, New Orleans, March, 2003.  
 “Mutations and Founder Effect in the Acadian Population.” Department of Physiology, LSUHSC, April, 2003.  
 “Genomics for the Pediatric Practitioner.” Annual Pediatric Review and Update, University of Texas Medical Branch, Galveston, June, 2003.  
 “Disease-associated tandem repeat polymorphisms in the Acadian population.” Bloedel Hearing Research Center, University of Washington, Seattle, June, 2003.  
 “Acadian Families and Usher Syndrome.” Usher Syndrome Study Group meeting, Toronto, August, 2003.  
 “Genetics of the Acadian People.” Genomics: Solving the DNA puzzle - A Workshop for Teachers, LSUHSC, August, 2003.  
 “Connexins and Hearing Loss.” Department of Genetics, LSUHSC, October, 2003.  
 “Genetics and Hearing Loss.” AG Bell conference, Washington, DC, February, 2004.  
 “Founder mutations in the Acadian population.” Gene Therapy Program, LSUHSC, May, 2004.  
 “Genes and Hearing Loss.” Louisiana Speech-Language-Hearing Association, Lafayette, June, 2004.  
 “The Senses.” The World Congress on Chromosome Abnormalities, San Antonio, June, 2004.  
 “Population Genetics in Acadiana,” A Workshop for Teachers, LSUHSC, August, 2004.  
 “Founder effects in the Acadian Population: Food and Music, Friedreich ataxia and Usher,” Murdoch Research Institute, Royal Children’s Hospital, Melbourne, Victoria, August, 2004.  
 “The International HapMap Project,” Hayward Genetics Center, Tulane Medical School, New Orleans, October, 2004.  
 “Genetics and Hearing Loss.” American Speech-Language-Hearing Association, Philadelphia, November, 2004.  
 “Founder effects in the Acadian Population: Friedreich ataxia and Usher syndrome, Department of Epidemiology, Tulane School of Public Health, New Orleans, November, 2004.  
 “Population Genetics and Tay-Sachs Disease.” National Tay-Sachs and Allied Diseases conference, New Orleans, April, 2005.

“Founder mutations in the Acadians: Friedreich ataxia and Usher syndrome.” Department of Structural and Cellular Biology, Tulane University School of Medicine, New Orleans, April, 2005.

“Advances in genetic diagnosis of hearing loss.” Pediatric Academic Societies, Washington, DC, May, 2005.

“Tracing the genetic heritage of the Acadian population of southwestern Louisiana.” American Society of Human Genetics High School Teacher/Student Workshop, New Orleans, October, 2006.