

## Ex-SUMMARY of Curriculum Vitae



**Name:** R.N.K. BAMEZAI, *Ph.D.*; *F.N.A.Sc*; *F.I.M.S.A*; *F.A.M.S*; *F.N.A.*

**Date of Birth:** December 26, 1951.

### ***Career and Positions Held:***

**Ph.D. Human Genetics** (February 1979) A.I.I.M.S, New Delhi  
**Professor of Genetics** (1996-onwards)**and Director** (Coordinator-2002 onwards)  
National Centre of Applied Human Genetics, School of Life Sciences, Jawaharlal Nehru University (JNU)  
**Dean** School of Life Sciences (August 2004-2006)  
**Coordinator** Bio-Informatics Centre, J.N.U. (1997-1998).  
**Associate Professor** in Genetics, School of Life Sciences, J.N.U. (1989-96).  
**Sr. Lecturer** in Human Genetics, Instt. of Medical Sciences, B.H.U. (1986-89).  
**Lecturer** in Human Genetics, Institute of Medical Sciences, B.H.U. (1980-86).  
**Research Associate** CSIR (1979-1980) A.I.I.M.S, New Delhi.  
**Monbusho Scholar, Japan** (1985).

**Visiting (Adjunct) Faculty**-Instt.of Life Sciences, Manipal University (2009-).

### ***Membership of International and National Bodies and Science Academies:***

**Council Member** of the International Association of Environmental Mutagen Societies (2008 onwards),  
**Fellow** of Indian National Science Academy,  
**Fellow** of The National Academy of Sciences, India,  
**Fellow** of National Academy of Medical Sciences, India,  
**Fellow** of International Medical Sciences Academy,  
**Fellow** at the Medical Genetics Centre, Sylvius Laboratories, The Netherlands (1998),  
**Fellow** at Salzburg, Austria (2000),  
**Member HUGO** (Human Genome Organization),  
**Elected member GRC** (Guha Research Conference),  
**Member American Society of Human Genetics**, U.S.A.,  
**Member editorial advisory board** of: Open Bentham Journal on Systems Biology;  
International Journal of Human Genetics and Indian Journal of Human Genetics,  
Past editorial Board member of the Indian Journal of Experimental Biology,

**Ex.-Office bearer and Executive Member** of Indian Society of Human Genetics, Executive Committee Member of Indian Society of Cell Biology (Past), Ex. Comm. member of Indian Society of Human Genetics (2009-)  
**Past-Vice-President**-Environmental Mutagen Society of India.

***Membership of Committees:***

**Member** in Different **UGC Committees (XI<sup>th</sup> & X<sup>th</sup> Plan** and Other National and local level-Monitoring and Review Committees),  
**Monitoring committee UGC** on University with Potential for Excellence,  
**Member UGC- SAP** (Special Assistance Programmes) for dozens of universities,  
**XI Plan** committee of the Department of Biotechnology (DBT)  
**Member Executive Council** (Pondicherry University; Central Univ.of Jharkhand),  
**Member Court / Academic Councils / Task Forces** and **Advisory Committees, Faculty Boards, Review Committees** in several universities / Research Institutions in different parts of the country.  
**Member Expert Group** Committee on Breast Cancer, **ICMR**  
**Member DBT Task Force** on Human resource Development (Past)  
**Member DBT- Research** Committee for Rapid Grant for Young Investigators  
**Member DBT Task Force** on Chronic Disease Biology-Member Expert Group on Cancer Biology, Biomarkers and Immunology  
**Member** Selection Committees in universities and research institutes and for UGC Major projects.  
**Member**-The Independent Ethics Committee, Escorts Heart Institute & Research Centre (since 2008).  
**Member JNU**- Executive Council (Past); Academic Council (two times), Court and other committees from time to time.  
**Chairman**, Monitoring Committee-JNU  
**Chairman**, Institutional Ethics Review Board-JNU

***Current Research Activity and Achievements:***

**Genetic Susceptibility Mechanisms in Complex Disease: Infectious Diseases** (Leprosy, Tuberculosis, Hepatitis); **Diabetes; Cancer** (*In-Vitro* and *In-Vivo* models and Cancer Patient studies) And **Rare Syndrome Biology.**

**Hari Om Ashram Trust- Jagdish Chander Bose Award (UGC)** for Research in Life Sciences for the Year 2000.

**Published >100** papers (90 in NCBI - PubMed database) with **Average Impact Factor** of >4. Papers are published in Journals like, JBC; Int J Cancer; Human Genetics; Breast Cancer Research; BMC Evolutionary Biol; Cancer lett.; Mut.Res.; J Hum Genet.; Eur J Hum Genet. [see Annexure - i]

Acted on the **Review panel** of both International and National Journals of high repute.

NCBI- NIH, USA **database entries** - 389 GenBank; 22 protein; 13 SNPs and 10 OMIM. [see Annexure - ii]

**Delivered Platinum Jubilee lecture** in the 92nd session of the Indian Science Congress, Ahmedabad (2004-05)

***Teaching and Research Experience:***

**Teaching and Guiding** Research in Universities: **>30years** (March 1980 onwards).

**Research Experience:** **>37 years** (1973 onwards).

**Trained more than 300 researchers** in the past 7 years in the area of **Human Genetics and Genomics** at NCAHG,JNU.

**Delivered 105 lectures**, scientific and public **since 2003**, all over the country in different institutions. [see Annexure - iii]

**Supervised Research Grants: INSA, DBT, DAE, UGC.**

**Supervised Research Students: 19 Ph.D., 10 M.D/D.M/M.Phil., 12 Post-Doctoral;**

**Supervising: 12 Ph.D, 3 Post-Doctoral Fellows.**

***Visits and Lectures Abroad:***

**Japan** 1985

**France and Germany** 1986; Visiting different laboratories

**U.S.A** 1987; Visited different laboratories in Boston and Bar-Harbor, Attending a course at Jackson Laboratory, Bar-Harbor.

**U.S.A.** 1993; Lectured at NIH, Bethesda, Attended a course on Linkage Analysis at the Columbia University, New York.

**The Netherlands** 1998; Fellow at the Medical Genetics Centre, Sylvius Laboratories.

**Salzburg, Austria** 2000; Participated in Salzburg Seminar on Policy, Ethical, --issues in Modern Biotechnology and Human Genomics.

**Kandy, Sri-Lanka** 2000; Delivered a Key-Note Address in a Plenary Session on Bioethical Issues—Human Genome research.

**Edinburgh, HGM2001**; Meeting of the Human Genome Organization.

**Pattaya-Thailand** 2002; Delivered Invited lecture in one of the Symposia in HUGO-PACIFIC meeting and the Asia-Pacific Human Genetics Conference.

**Tehran- Iran** 2003; Delivered invited lecture in the 8<sup>th</sup> Iran Genetics Society Meeting.

**Tehran-Iran** 2004; Delivered Invited lecture in the ICGEB supported workshop.

**Lahore, Pakistan** 3<sup>rd</sup> November, 2006; Delivered Invited Lecture on “**Recent Trends in Genomics**” and chaired a session at Annual Conference of International Medical Academy, Dental College.

**Tehran-Iran** 2007; Delivered an Invited Lecture in the 1<sup>st</sup> International Congress on Health Genomics and Biotechnology.

***Administrative / Academic Experience***

Three decades of experience within the university and outside is reflected in detail.

[see Annexure - iii]

Issues related to "**Management of Indian Science for Development and Self Reliance**" Acted as a **Scientific Secretary in the year 1978** for its organization and conductance at AIIMS at the behest of the 'Society of Young Scientist' forum- a beginning in the synthesis of good quality research with ethics and its deliverance and management.

## ANNEXURE - I

# PUBLICATIONS

1: Akhtar K, Gupta V, Kaul A, Alam N, Bhat R, **Bamezai RN.**

Differential behavior of missense mutations in the intersubunit contact domain of human pyruvate kinase M2 isozyme.

**J Biol Chem.** 2009 May 1;**284(18):11971-81.** Epub 2009 Mar 5. PubMed PMID: 19265196; PubMed Central PMCID: PMC2673266.

2: Sharma S, Rai E, Sharma P, Jena M, Singh S, Darvishi K, Bhat AK, Bhanwer AJ, Tiwari PK, **Bamezai RN.**

The Indian origin of paternal haplogroup R1a1(\*) substantiates the autochthonous origin of Brahmins and the caste system.

**J Hum Genet.** 2009;**54(1):47-55.** Epub 2009 Jan 9. PubMed PMID: 19158816.

3: Bhattacharya P, **Bamezai RK.**

Biophysical studies with parallel stranded oligoduplex.

**Gene.** 2009 Feb 15;**431(1-2):13-7.** Epub 2008 Sep 18. PMID: 18848977 [PubMed - in process]

4: Gochhait S, Dar S, Pal R, Gupta P, **Bamezai RN.**

Expression of DNA damage response genes indicate progressive breast tumors.

**Cancer Lett.** 2009 Jan 18;**273(2):305-11.** Epub 2008 Sep 20. PMID: 18805634 [PubMed - indexed for MEDLINE]

5: Srivastava N, Gochhait S, de Boer P, **Bamezai RN.**

Role of H2AX in DNA damage response and human cancers.

**Mutat Res.** 2008 Aug 29. [Epub ahead of print] PMID: 18804552 [PubMed - as supplied by publisher]

6: Gochhait S, Bhatt A, Sharma S, Singh YP, Gupta P, **Bamezai RN.**

Concomitant presence of mutations in mitochondrial genome and p53 in cancer development - a study in north Indian sporadic breast and esophageal cancer patients.

**Int J Cancer.** 2008 Dec 1;**123(11):2580-6.** PMID: 18792899 [PubMed - indexed for MEDLINE]

7: Kumar R, Bhat A, **Bamezai RN**, Shamsi MB, Kumar R, Gupta NP, Ammini AC, Aron M, Sharma RK, Dada R.

Necessity of nuclear and mitochondrial genome analysis prior to assisted reproductive techniques/intracytoplasmic sperm injection.

**Indian J Biochem Biophys.** 2007 Dec;44(6):437-42. PMID: 18320842 [PubMed - indexed for MEDLINE]

8: Srivastava N, Gochhait S, Gupta P, **Bamezai RN**.

Copy number alterations of the H2AFX gene in sporadic breast cancer patients.

**Cancer Genet Cytogenet.** 2008 Jan 15;180(2):121-8. PMID: 18206537 [PubMed - indexed for MEDLINE]

9: Bhattacharya P, Sharma S, Gochhait S, **Bamezai RN**.

Biophysical characterization of double-stranded oligonucleotides using ETBR and isothermal fluorescence spectroscopy: Implication for SNP genotyping.

**J Biochem Biophys Methods.** 2008 Apr 24;70(6):1163-73. Epub 2007 Nov 12. PMID: 18177945 [PubMed - in process]

10: Sharma S, Rai E, Bhat AK, Bhanwer AS, **Bamezai RN**.

A novel subgroup Q5 of human Y-chromosomal haplogroup Q in India.

**BMC Evol Biol.** 2007 Nov 19;7:232. PMID: 18021436 [PubMed - indexed for MEDLINE]

11: Gochhait S, Bukhari SI, Bairwa N, Vadhera S, Darvishi K, Raish M, Gupta P, Husain SA, **Bamezai RN**.

Implication of BRCA2 -26G>A 5' untranslated region polymorphism in susceptibility to sporadic breast cancer and its modulation by p53 codon 72 Arg>Pro polymorphism.

**Breast Cancer Res.** 2007;9(5):R71. PMID: 17945002 [PubMed - indexed for MEDLINE]

12: Stephen P, Vijayan R, Bhat A, Subbarao N, **Bamezai RN**.

Molecular modeling on pyruvate phosphate dikinase of Entamoeba histolytica and in silico virtual screening for novel inhibitors.

**J Comput Aided Mol Des.** 2007 Aug 21. [Epub ahead of print] PMID: 17710553 [PubMed - as supplied by publisher]

13: Rai E, Sharma S, Koul A, Bhat AK, Bhanwer AJ, **Bamezai RN**.

Interaction between the UCP2-866G/A, mtDNA 10398G/A and PGC1alpha p.Thr394Thr and p.Gly482Ser polymorphisms in type 2 diabetes susceptibility in North Indian population.

**Hum Genet.** 2007 Dec;122(5):535-40. Epub 2007 Aug 14. PMID: 17701054 [PubMed - indexed for MEDLINE]

14: Bhat A, Koul A, Rai E, Sharma S, Dhar MK, **Bamezai RN**.

PGC-1alpha Thr394Thr and Gly482Ser variants are significantly associated with T2DM in two North Indian populations: a replicate case-control study.

**Hum Genet.** 2007, 121, 609-14. Mar 28; [Epub ahead of print] PMID: 17390150 [PubMed - as supplied by publisher]

- 15: Bhat A, Koul A, Sharma S, Rai E, Bukhari SI, Dhar MK, **Bamezai RN**.  
The possible role of 10398A and 16189C mtDNA variants in providing susceptibility to T2DM in two North Indian populations: a replicative study.  
**Hum Genet.** 2007 Feb;**120(6):821-6**. Epub 2006 Oct 26.
- 16: Darvishi K, Sharma S, Bhat AK, Rai E, **Bamezai RN**.  
Mitochondrial DNA G10398A polymorphism imparts maternal Haplogroup N a risk for breast and esophageal cancer.  
**Cancer Lett.** 2007 May **8;249(2):249-55**. Epub 2006 Nov 1.  
PMID: 17081685 [PubMed - in process]
- 17: Malhotra D, Darvishi K, Lohra M, Kumar H, Grover C, Sood S, Reddy BS, **Bamezai RN**. Association study of major risk single nucleotide polymorphisms in the common regulatory region of PARK2 and PACRG genes with leprosy in an Indian population.  
**Eur J Hum Genet.** 2006 Apr;**14(4):438-42**. PMID: 16391553 [PubMed - in process]
- 18: Mohammad S, Taha A, Akhtar K, **Bamezai RN**, Baquer NZ.  
In vivo effect of Trigonella foenum graecum on the expression of pyruvate kinase, phosphoenolpyruvate carboxykinase, and distribution of glucose transporter (GLUT4) in alloxan-diabetic rats.  
**Can J Physiol Pharmacol.** 2006 Jun;**84(6):647-54**. PMID: 16900249 [PubMed - indexed for MEDLINE]
- 19: Mohammad S, Taha A, **Bamezai RN**, Baquer NZ.  
Modulation of glucose transporter (GLUT4) by vanadate and Trigonella in alloxan-diabetic rats.  
**Life Sci.** 2006 Jan **18;78(8):820-4**. Epub 2005 Nov 14. PMID: 16289562 [PubMed - indexed for MEDLINE]
- 20: Saha A, Dhir A, Ranjan A, Gupta V, Bairwa N, **Bamezai R**.  
Functional IFNG polymorphism in intron 1 in association with an increased risk to promote sporadic breast cancer.  
**Immunogenetics.** 2005 May;**57(3-4):165-71**. Epub 2005 Mar 9. PMID: 15900487 [PubMed - indexed for MEDLINE]
- 21: Malhotra D, Relhan V, Reddy BS, **Bamezai R**.  
TLR2 Arg677Trp polymorphism in leprosy: revisited.  
**Hum Genet.** 2005 Apr;**116(5):413-5**. Epub 2005 Feb 22. PMID: 15726416 [PubMed - indexed for MEDLINE]
- 22: Malhotra D, Darvishi K, Sood S, Sharma S, Grover C, Relhan V, Reddy BS, **Bamezai RN**. IL-10 promoter single nucleotide polymorphisms are significantly associated with resistance to leprosy.  
**Hum Genet.** 2005 Nov;**118(2):295-300**. Epub 2005 Nov 15. PMID: 16163478 [PubMed - indexed for MEDLINE]

- 23: Mir MM, Dar NA, Gochhait S, Zargar SA, Ahangar AG, **Bamezai RN**. p53 mutation profile of squamous cell carcinomas of the esophagus in Kashmir (India): a high-incidence area. **Int J Cancer. 2005 Aug 10;116(1):62-8**. PMID: 15761872 [PubMed - indexed for MEDLINE]
- 24: Sharma S, Saha A, Rai E, Bhat A, **Bamezai R**. Human mtDNA hypervariable regions, HVR I and II, hint at deep common maternal founder and subsequent maternal gene flow in Indian population groups. **J. Hum Genet. 2005;50(10):497-506**. Epub 2005 Oct 5. PMID: 16205836 [PubMed - indexed for MEDLINE]
- 25: Arora R, Saha A, Malhotra D, Rath P, Kar P, **Bamezai R**. Promoter and intron-1 region polymorphisms in the IFNG gene in patients with hepatitis E. **Int J Immunogenet. 2005 Jun;32(3):207-12**. PMID: 15932627 [PubMed - in process]
- 26: Gupta V, Arora R, Saha A, Dhir A, Kar P, **Bamezai R**. Novel variations in the signal peptide region of transforming growth factor beta1 gene in patients with hepatitis: a brief report from India. **Int J Immunogenet. 2005 Apr;32(2):79-82**. PMID: 15787639 [PubMed - indexed for MEDLINE]
- 27: Saha A, Sharma S, Bhat A, Pandit A, **Bamezai R**. Genetic affinity among five different population groups in India reflecting a Y-chromosome gene flow. **J Hum Genet. 2005;50(1):49-51**. Epub 2004 Dec 21. PMID: 15611834 [PubMed - indexed for MEDLINE]
- 28: Saha A, Bairwa NK, **Bamezai R**. Microsatellite instability: an indirect assay to detect defects in the cellular mismatch repair machinery. **Methods Mol Biol. 2005;291:293-302**. PMID: 15502231 [PubMed - indexed for MEDLINE]
- 29: Gupta V, Arora R, Ranjan A, Bairwa NK, Malhotra DK, Udhayasuriyan PT, Saha A, **Bamezai R**. Gel-based nonradioactive single-strand conformational polymorphism and mutation detection: limitations and solutions. **Methods Mol Biol. 2005;291:247-61**. PMID: 15502228 [PubMed - indexed for MEDLINE]
- 30: Wenger SL, Senft JR, Sargent LM, **Bamezai R**, Bairwa N, Grant SG. Comparison of established cell lines at different passages by karyotype and comparative genomic hybridization. **Biosci Rep. 2004 Dec;24(6):631-9**. PMID: 16158200 [PubMed - in process]
- 31: Anitha M, Kaur G, Baquer NZ, **Bamezai R**. Dominant negative effect of novel mutations in pyruvate kinase-M2.

**DNA Cell Biol.** 2004 Jul;23(7):442-9. PMID: 15294093 [PubMed - indexed for MEDLINE]

32: Bairwa NK, Malhotra D, Saha A, **Bamezai R.**

A novel promoter polymorphism (-71C>T) in KRTHB6 gene in Indian population.

**Ann Genet.** 2004 Apr-Jun;47(2):125-7. PMID: 15183744 [PubMed - indexed for MEDLINE]

33: Khandpur S, Bairwa NK, Reddy BS, **Bamezai R.**

A study of phenotypic correlation with the genotypic status of HTM regions of KRTHB6 and KRTHB1 genes in monilethrix families of Indian origin.

**Ann Genet.** 2004 Jan-Mar;47(1):77-84. PMID: 15050877 [PubMed - indexed for MEDLINE]

34: Mohamad S, Taha A, **Bamezai RN**, Basir SF, Baquer NZ.

Lower doses of vanadate in combination with trigonella restore altered carbohydrate metabolism and antioxidant status in alloxan-diabetic rats.

**Clin Chim Acta.** 2004 Apr;342(1-2):105-14. PMID: 15026271 [PubMed - indexed for MEDLINE]

35: Saha A, Gupta V, Bairwa NK, Malhotra D, **Bamezai R.**

Transforming growth factor-beta1 genotype in sporadic breast cancer patients from India: status of enhancer, promoter, 5'-untranslated-region and exon-1 polymorphisms.

**Eur J Immunogenet.** 2004 Feb;31(1):37-42. PMID: 15009180 [PubMed - indexed for MEDLINE]

36: Saha A, Bairwa NK, Ranjan A, Gupta V, **Bamezai R.**

Two novel somatic mutations in the human interleukin 6 promoter region in a patient with sporadic breast cancer.

**Eur J Immunogenet.** 2003 Dec;30(6):397-400. PMID: 14675392 [PubMed - indexed for MEDLINE]

37: Saha A, Udhayasuriyan PT, Bhat KV, **Bamezai R.**

Analysis of Indian population based on Y-STRs reveals existence of male gene flow across different language groups.

**DNA Cell Biol.** 2003 Nov;22(11):707-19. PMID: 14659043 [PubMed - indexed for MEDLINE]

38: Kumar H, Malhotra D, Goswami S, **Bamezai RN.**

How far have we reached in tuberculosis vaccine development?

**Crit Rev Microbiol.** 2003;29(4):297-312. Review. PMID: 14636041 [PubMed - indexed for MEDLINE]

39: Reddy BS, Kochhar AM, Anitha M, **Bamezai R.**

Bloom's syndrome--a first report from India.

**Int J Dermatol.** 2000 Oct;39(10):760-3. No abstract available. PMID: 11095195 [PubMed - indexed for MEDLINE]

40: Saha A, **Bamezai R.**

Detection of genetic variation in Indian population groups using a novel minisatellite probe and finding relationships through tree construction.

**J Hum Genet. 2000;45(4):207-11.** PMID: 10944849 [PubMed - indexed for MEDLINE]

41: Singh A, Singh SP, **Bamezai R.**

Direct and translactational effect of arecoline alkaloid on the clocimum oil-modulated hepatic drug metabolizing enzymes in mice.

**Food Chem Toxicol. 2000 Jul;38(7):627-35.**

PMID: 10942324 [PubMed - indexed for MEDLINE]

42: Saha A, Husain S, **Bamezai R.**

Characterization of a subcloned fragment (pBA0.6) of pCMM86 located on 17q21 and its potential use in generating an individual-specific DNA profile.

**DNA Cell Biol. 2000 Apr;19(4):219-26.** PMID: 10798445 [PubMed - indexed for MEDLINE]

43: Singh A, Singh SP, **Bamezai R.**

Modulatory potential of clocimum oil on mouse skin papillomagenesis and the xenobiotic detoxication system.

**Food Chem Toxicol. 1999 Jun;37(6):663-70.** PMID: 10478835 [PubMed - indexed for MEDLINE]

44: Sachdeva G, Kaur G, Bhutani LK, **Bamezai RN.**

Lymphoproliferative responses of leprosy patients and healthy controls to nitrocellulose-bound M. leprae antigens.

**Int J Lepr Other Mycobact Dis. 1999 Jun;67(2):133-42.** PMID: 10472365 [PubMed - indexed for MEDLINE]

45: Singh A, Singh SP, **Bamezai R.**

Inhibitory potential of Chlorella vulgaris (E-25) on mouse skin papillomagenesis and xenobiotic detoxication system.

**Anticancer Res. 1999 May-Jun;19(3A):1887-91.** PMID: 10470132 [PubMed - indexed for MEDLINE]

46: Singh A, Singh SP, **Bamezai R.**

Perinatal influence of Chlorella vulgaris (E-25) on hepatic drug metabolizing enzymes and lipid peroxidation.

**Anticancer Res. 1998 May-Jun;18(3A):1509-14.** PMID: 9673362 [PubMed - indexed for MEDLINE]

47: Kaur G, Sachdeva G, Bhutani LK, **Bamezai RN.**

Rare transcripts of interferon-gamma detected in lepromatous leprosy cases.

**Int J Lepr Other Mycobact Dis. 1998 Mar;66(1):65-6.** PMID: 9614846 [PubMed - indexed for MEDLINE]

48: **Bamezai R.**

Planned parenthood and artificial selection.

**Indian J Exp Biol. 1997 May;35(5):415.**

PMID: 9583953 [PubMed - indexed for MEDLINE]

- 49: Singh A, Singh SP, **Bamezai R**.  
Postnatal efficacy of antioxidants in the detoxification pathway of suckling neonates and lactating mice.  
**Cancer Lett.** 1997 Nov 11;119(2):201-6. PMID: 9570372 [PubMed - indexed for MEDLINE]
- 50: Bhalla A, **Bamezai R**.  
MNNG-transformed Bloom syndrome B-lymphoblastoids for the detection of Hodgkin's lymphoma-associated antigen in 2D Westerns.  
**Cancer Lett.** 1998 Apr 10;126(1):7-15. PMID: 9563642 [PubMed - indexed for MEDLINE]
- 51: Bhalla A, Sachdeva G, **Bamezai R**.  
T-cell receptor-gamma rearrangement and c-myb methylation in MNNG-exposed Bloom syndrome B-lymphoblastoid cells.  
**Cancer Lett.** 1998 Apr 10;126(1):1-6. PMID: 9563641 [PubMed - indexed for MEDLINE]
- 52: Singh A, Singh SP, **Bamezai R**.  
Momordica charantia (Bitter Gourd) peel, pulp, seed and whole fruit extract inhibits mouse skin papillomagenesis.  
**Toxicol Lett.** 1998 Jan 16;94(1):37-46. PMID: 9544697 [PubMed - indexed for MEDLINE]
- 53: Singh A, Singh SP, **Bamezai R**.  
Postnatal efficacy of Momordica charantia peel, pulp, seed and whole fruit extract in the detoxication pathway of suckling neonates and lactating mice.  
**Cancer Lett.** 1998 Jan 9;122(1-2):121-6. PMID: 9464500 [PubMed - indexed for MEDLINE]
- 54: Singh A, Singh SP, **Bamezai R**.  
Modulatory influence of arecoline on the phytic acid-altered hepatic biotransformation system enzymes, sulfhydryl content and lipid peroxidation in a murine system.  
**Cancer Lett.** 1997 Jul 15;117(1):1-6. PMID: 9233824 [PubMed - indexed for MEDLINE]
- 55: Kaur G, Sachdeva G, Bhutani LK, **Bamezai R**.  
Association of polymorphism at COL3A and CTLA4 loci on chromosome 2q31-33 with the clinical phenotype and in-vitro CMI status in healthy and leprosy subjects: a preliminary study.  
**Hum Genet.** 1997 Jul;100(1):43-50. PMID: 9225967 [PubMed - indexed for MEDLINE]
- 56: Sachdeva G, Kaur G, Bhutani LK, **Bamezai R**.  
Genetic variations at the T cell receptor gamma locus in circulating peripheral blood mononuclear cells of clinically categorised leprosy patients.  
**Hum Genet.** 1997 Jul;100(1):30-4. PMID: 9225965 [PubMed - indexed for MEDLINE]
- 57: Singh A, Singh SP, **Bamezai R**.

Modulatory influence of chlorophyllin on the mouse skin papillomagenesis and xenobiotic detoxication system.

**Carcinogenesis.** 1996 Jul;17(7):1459-63. PMID: 8706249 [PubMed - indexed for MEDLINE]

58: **Bamezai R.**

Bloom syndrome: is the gene mapped to the point?

**Indian J Exp Biol.** 1996 Apr;34(4):298-301. Review. PMID: 8698416 [PubMed - indexed for MEDLINE]

59: Singh A, Singh SP, **Bamezai R.**

Postnatal effect of arecoline on chlorophyllin-modulated hepatic biotransformation system enzymes in suckling neonate and lactating mice.

**Teratog Carcinog Mutagen.** 1996;16(2):89-96. PMID: 8875739 [PubMed - indexed for MEDLINE]

60: Singh A, Singh SP, **Bamezai R.**

Effect of arecoline on the curcumin-modulated hepatic biotransformation system enzymes in lactating mice and translactationally exposed F1 pups.

**Nutr Cancer.** 1996;25(1):101-10. PMID: 8837865 [PubMed - indexed for MEDLINE]

61: Trehan N, **Bamezai R.**

Induction of high SCEs in normal cells by 11-12 kDa plasma protein overexpressed in some sleep deprived volunteers.

**Mutat Res.** 1995 Oct;331(2):191-6. PMID: 7500977 [PubMed - indexed for MEDLINE]

62: Singh A, Singh SP, **Bamezai R.**

Postnatal modulation of hepatic biotransformation system enzymes via translactational exposure of F1 mouse pups to turmeric and curcumin.

**Cancer Lett.** 1995 Sep 4;96(1):87-93. PMID: 7553612 [PubMed - indexed for MEDLINE]

63: Mann RK, **Bamezai R.**

Protein phosphatase-1 inhibition induces high SCEs in normal whole blood cultures.

**Indian J Exp Biol.** 1995 Sep;33(9):710-1. PMID: 8557315 [PubMed - indexed for MEDLINE]

64: Sachdeva G, Kaur G, **Bamezai R.**

Noise-free chemiluminescent detection of human T cell receptor and interleukin-2 receptor genes after optimization of digoxigenin labeled probe concentration.

**Indian J Exp Biol.** 1995 Mar;33(3):173-6. PMID: 7601486 [PubMed - indexed for MEDLINE]

65: **Bamezai R,** Kumar N.

Sleep deprivation in human males and its effect on SCE rates in chromosomes—a preliminary study.

**Mutat Res.** 1992 Dec;283(4):229-32. PMID: 1383793 [PubMed - indexed for MEDLINE]

66: Husain SA, Balasubramanian S, **Bamezai R**.  
Sister chromatid exchange frequency in breast cancer cases.  
**Cancer Genet Cytogenet.** 1992 Jul 15;**61(2):142-6**. PMID: 1638494 [PubMed - indexed for MEDLINE]

67: Husain SA, **Bamezai R**.  
Chromatid association in acrocentric chromosomes of abnormal sexual development (ASD) cases.  
**Indian J Exp Biol.** 1989 Oct;**27(10):861-3**. PMID: 2635144 [PubMed - indexed for MEDLINE]

68: Husain SA, **Bamezai R**.  
Frequency of acrocentric association in abnormal sexual development in males and females.  
**Indian J Exp Biol.** 1989 Sep;**27(9):761-3**. PMID: 2632395 [PubMed - indexed for MEDLINE]

69: **Bamezai R**.  
Differential BrdU uptake in 3 cell cycles and the resultant 3-way sister-chromatid differentiation at M3 endoreduplicated chromosome level—a hypothesis.  
**Mutat Res.** 1989 Jun;**226(2):137-40**. PMID: 2733719 [PubMed - indexed for MEDLINE]

70: Shiraishi Y, Taguchi T, Ozawa M, **Bamezai R**.  
Different mutations responsible for the elevated sister-chromatid exchange frequencies in Bloom syndrome and X-irradiated B-lymphoblastoid cell lines originating from acute leukemia.  
**Mutat Res.** 1989 Apr;**211(2):273-8**. PMID: 2784538 [PubMed - indexed for MEDLINE]

71: Saxena AK, **Bamezai R**.  
Visualization and comparison of protein bands in the same SDS-PAG with simultaneous use of three different stains.  
**Indian J Exp Biol.** 1988 Nov;**26(11):866-8**. PMID: 2470670 [PubMed - indexed for MEDLINE]

72: Husain SA, **Bamezai R**.  
Sister-chromatid exchange (SCE) rate in normal and abnormal sexual development in males and females.  
**Mutat Res.** 1988 Oct;**206(2):261-70**. PMID: 3173392 [PubMed - indexed for MEDLINE]

73: **Bamezai R**, Husain SA.  
Folate sensitive and BrdU dependent fragile sites on human chromosomes.  
**Indian J Exp Biol.** 1988 Mar;**26(3):214-6**. PMID: 3397127 [PubMed - indexed for MEDLINE]

74: **Bamezai R**, Shiraishi Y.  
Cell cycle rate and sister chromatid exchange profile in polyethylene glycol-exposed/unexposed Bloom syndrome and normal cells. A co-culture study.

**Hum Genet.** 1987 Apr;**75(4):356-8**. PMID: 3570291 [PubMed - indexed for MEDLINE]

75: **Bamezai R**, Husain SA, Misra S, Thacker AK.  
Cerebellar ataxia and total albinism.

**Clin Genet.** 1987 Mar;**31(3):178-81**. PMID: 3568445 [PubMed - indexed for MEDLINE]

76: **Bamezai R**, Shiraishi Y.

Three-way differentiation of sister chromatids in endoreduplicated (M3) chromosomes of Bloom syndrome B-lymphoid cell line.

**Hum Genet.** 1987 Mar;**75(3):239-43**. PMID: 3493971 [PubMed - indexed for MEDLINE]

77: **Bamezai R**, Shiraishi Y.

Cell cycle progression and SCE rate of Bloom syndrome cells with/without co-cultivation in the presence/absence of normal cells.

**Exp Cell Res.** 1986 May;**164(1):163-73**. PMID: 3485532 [PubMed - indexed for MEDLINE]

78: **Bamezai R**, Shiraishi Y, Taguchi H.

Centromere spreading in a case of megaloblastic anemia "cured" under TC 199 culture conditions.

**Cancer Genet Cytogenet.** 1986 Feb 15;**20(3-4):341-3**. PMID: 3943072 [PubMed - indexed for MEDLINE]

79: **Bamezai R**.

New fragile sites in a 'D' group chromosome-13 in human lymphocytes.

**Indian J Exp Biol.** 1984 Sep;**22(9):479-81**. PMID: 6519692 [PubMed - indexed for MEDLINE]

80: **Bamezai R**, Singh G, Khanna NN, Singh S.

Genetics of site specific colon cancer: a family study.

**Clin Genet.** 1984 Aug;**26(2):129-32**. PMID: 6088133 [PubMed - indexed for MEDLINE]

81: **Bamezai R**.

X-linked sterility and lethality--a working hypothesis to explain abnormal sexual development.

**Indian J Exp Biol.** 1984 May;**22(5):233-8**. PMID: 6480055 [PubMed - indexed for MEDLINE]

82: Singh NK, Singh DS, Srivastava PK, Dube RK, Bamezai R.

Lymphoblastic crisis in chronic myeloid leukemia.

**J Assoc Physicians India.** 1983 Jun;**31(6):377-8**. PMID: 6581154 [PubMed - indexed for MEDLINE]

83: **Bamezai R**.

Cell indices in amniotic fluid as indicators of gestational age: with comparison of two stains.

**Acta Cytol. 1983 May-Jun;27(3):380-2.** PMID: 6575561 [PubMed - indexed for MEDLINE]

84: **Bamezai R.**

Prospective genetic counselling in mothers at risk to produce premature low birth weight babies prone to respiratory distress syndrome or neurological disorders.

**Indian J Exp Biol. 1983 Feb;21(2):73-5.** PMID: 6629436 [PubMed - indexed for MEDLINE]

85: **Bamezai R, Singh S.**

Microtechnique for leukocyte culture from whole blood without serum supplementation.

**Indian J Exp Biol. 1982 Oct;20(10):756-8.** PMID: 7160862 [PubMed - indexed for MEDLINE]

86: **Bamezai R, Verma IC.**

Lipid-laden cells in amniotic fluid and the lecithin-sphingomyelin ratio.

**Acta Cytol. 1982 Jan-Feb;26(1):99.** PMID: 6950633 [PubMed - indexed for MEDLINE]

87: **Bamezai R.**

Method of chromosomal studies in amniotic fluid.

**Indian J Exp Biol. 1981 Aug;19(8):746-8.** PMID: 7309159 [PubMed - indexed for MEDLINE]

88: **Bamezai R, Verma IC, Kucheria K, Hingorani V.**

Amniotic fluid cytology gestational age and fetal maturity.

**Indian J Pediatr. 1980 Jan-Feb;47(384):51-6.** No abstract available. PMID: 7216337 [PubMed - indexed for MEDLINE]

89: Kucheria K, Bhargava SK, **Bamezai R, Bhutani P.**

A familial tetraphocomelia syndrome involving limb deformities, cleft lip, cleft palate, and associated anomalies--a new syndrome.

**Hum Genet. 1976 Aug 30;33(3):323-6.**

[Please Note that this list does not include more than 10 papers published in proceedings, and journals not covered by PubMed]

## **CHAPTERS IN BOOKS**

1: Saha A, Bairwa NK, Bamezai R. Microsatellite instability: an indirect assay to detect defects in the cellular mismatch repair machinery. *Methods Mol Biol.* 2005; 291: 293-302.

2: Gupta V, Arora R, Ranjan A, Bairwa NK, Malhotra DK, Udhayasuriyan PT, Saha A, Bamezai R. Gel-based nonradioactive single-strand conformational polymorphism and mutation detection: limitations and solutions. *Methods Mol Biol.* 2005; 291: 247-61.

3: Gochhait S, Malhotra D, Rai E, and Bamezai R Automated Fluorescence Sequencing and Troubleshooting. Springer Verlag, Advance Techniques in Soil Microbiology 2007:11:35-52.

4: Gochhait S, Bukhari S.I, and Bamezai R mRNA Quantitation Using Real Time PCR. Springer Verlag, Advance Techniques in Soil Microbiology 2007:11:53-72.

## ANNEXURE - II

### CONTRIBUTIONS IN THE INTERNATIONAL GENOME DATABASE

GenBank Accessions:

#### Contributions To International Genome Database (2002-09)

##### GenBank Accessions:

##### Nucleotides:

- 1: NM\_002284  
Homo sapiens keratin 86 (KRT86), mRNA  
gil109637786|reflNM\_002284.3| [109637786]
- 2: EU600396  
Homo sapiens NADH dehydrogenase subunit 5-like (ND5) gene, partial sequence; mitochondrial  
gil193090102|gb|EU600396.1| [193090102]
- 3: EU586511  
Homo sapiens isolate 4S-9F cytochrome c oxidase subunit I (cox1) gene, complete cds; mitochondrial  
gil192335152|gb|EU586511.1| [192335152]
- 4: EU563241  
Homo sapiens clone B07 ATPase subunit 6 (ATP6) and cytochrome c oxidase subunit III (COX3) genes, partial cds; mitochondrial  
gil187729690|gb|EU563241.1| [187729690]
- 5: EU569685  
Homo sapiens isolate E03\_350-12f cytochrome c oxidase subunit II (COX2) gene, partial cds; mitochondrial  
gil186968863|gb|EU569685.1| [186968863]
- 6: EU239655  
Homo sapiens isolate pH49m D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948168|gb|EU239655.1| [160948168]
- 7: EU239654  
Homo sapiens isolate pH48m D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948167|gb|EU239654.1| [160948167]
- 8: EU239653  
Homo sapiens isolate pH47m D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948166|gb|EU239653.1| [160948166]
- 9: EU239652  
Homo sapiens isolate pH46m D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948165|gb|EU239652.1| [160948165]
- 10: EU239651  
Homo sapiens isolate pH44m D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948164|gb|EU239651.1| [160948164]
- 11: EU239650  
Homo sapiens isolate pH43m D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948163|gb|EU239650.1| [160948163]
- 12: EU239649  
Homo sapiens isolate pH42m D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948162|gb|EU239649.1| [160948162]
- 13: EU239648  
Homo sapiens isolate pH41m D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948161|gb|EU239648.1| [160948161]
- 14: EU239647

Homo sapiens isolate pH39m D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948160|gb|EU239647.1| [160948160]

15: EU239646  
Homo sapiens isolate pH38m D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948159|gb|EU239646.1| [160948159]

16: EU239645  
Homo sapiens isolate pH37m D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948158|gb|EU239645.1| [160948158]

17: EU239644  
Homo sapiens isolate pH36m D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948157|gb|EU239644.1| [160948157]

18: EU239643  
Homo sapiens isolate pH35am D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948156|gb|EU239643.1| [160948156]

19: EU239642  
Homo sapiens isolate pH34m D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948155|gb|EU239642.1| [160948155]

20: EU239641  
Homo sapiens isolate pH32m D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948154|gb|EU239641.1| [160948154]

21: EU239640  
Homo sapiens isolate pH31m D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948153|gb|EU239640.1| [160948153]

22: EU239639  
Homo sapiens isolate pH30m D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial

gil160948152|gb|EU239639.1| [160948152]

23: EU239638  
Homo sapiens isolate pH29m D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948151|gb|EU239638.1| [160948151]

24: EU239637  
Homo sapiens isolate pH28m D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948150|gb|EU239637.1| [160948150]

25: EU239636  
Homo sapiens isolate pH27m D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948149|gb|EU239636.1| [160948149]

26: EU239635  
Homo sapiens isolate pH26m D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948148|gb|EU239635.1| [160948148]

27: EU239634  
Homo sapiens isolate pH25m D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948147|gb|EU239634.1| [160948147]

28: EU239633  
Homo sapiens isolate pH35m D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948146|gb|EU239633.1| [160948146]

29: EU239632  
Homo sapiens isolate PH241Y D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948145|gb|EU239632.1| [160948145]

30: EU239631  
Homo sapiens isolate PH99Y D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948144|gb|EU239631.1| [160948144]

31: EU239630

Homo sapiens isolate PH98Y D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948143|gb|EU239630.1| [160948143]

32: EU239629  
Homo sapiens isolate PH97Y D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948142|gb|EU239629.1| [160948142]

33: EU239628  
Homo sapiens isolate PH96Y D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948141|gb|EU239628.1| [160948141]

34: EU239627  
Homo sapiens isolate PH94Y D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948140|gb|EU239627.1| [160948140]

35: EU239626  
Homo sapiens isolate PH93Y D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948139|gb|EU239626.1| [160948139]

36: EU239625  
Homo sapiens isolate PH92Y D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948138|gb|EU239625.1| [160948138]

37: EU239624  
Homo sapiens isolate PH88Y D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948137|gb|EU239624.1| [160948137]

38: EU239623  
Homo sapiens isolate PH86Y D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948136|gb|EU239623.1| [160948136]

39: EU239622  
Homo sapiens isolate PH85Y D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial

gil160948135|gb|EU239622.1| [160948135]

40: EU239621  
Homo sapiens isolate PH79Y D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948134|gb|EU239621.1| [160948134]

41: EU239620  
Homo sapiens isolate PH77Y D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948133|gb|EU239620.1| [160948133]

42: EU239619  
Homo sapiens isolate PH76Y D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948132|gb|EU239619.1| [160948132]

43: EU239618  
Homo sapiens isolate PH75Y D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948131|gb|EU239618.1| [160948131]

44: EU239617  
Homo sapiens isolate PH73Y D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948130|gb|EU239617.1| [160948130]

45: EU239616  
Homo sapiens isolate PH39Y D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948129|gb|EU239616.1| [160948129]

46: EU239615  
Homo sapiens isolate PH28Y D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948128|gb|EU239615.1| [160948128]

47: EU239614  
Homo sapiens isolate PH25Y D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948127|gb|EU239614.1| [160948127]

48: EU239613

Homo sapiens isolate PH9bY D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948126|gb|EU239613.1| [160948126]

49: EU239612  
Homo sapiens isolate PH7Y D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948125|gb|EU239612.1| [160948125]

50: EU239611  
Homo sapiens isolate PH6Y D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948124|gb|EU239611.1| [160948124]

51: EU239610  
Homo sapiens isolate PH4Y D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948123|gb|EU239610.1| [160948123]

52: EU239609  
Homo sapiens isolate PH3Y D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948122|gb|EU239609.1| [160948122]

53: EU239608  
Homo sapiens isolate PH1Y D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948121|gb|EU239608.1| [160948121]

54: EU239607  
Homo sapiens isolate PH-50 D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948120|gb|EU239607.1| [160948120]

55: EU239606  
Homo sapiens isolate PH-49 D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948119|gb|EU239606.1| [160948119]

56: EU239605  
Homo sapiens isolate PH-48 D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial

gil160948118|gb|EU239605.1| [160948118]

57: EU239604  
Homo sapiens isolate PH-47 D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948117|gb|EU239604.1| [160948117]

58: EU239603  
Homo sapiens isolate PH-46 D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948116|gb|EU239603.1| [160948116]

59: EU239602  
Homo sapiens isolate PH-45 D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948115|gb|EU239602.1| [160948115]

60: EU239601  
Homo sapiens isolate PH-43 D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948114|gb|EU239601.1| [160948114]

61: EU239600  
Homo sapiens isolate PH-38 D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948113|gb|EU239600.1| [160948113]

62: EU239599  
Homo sapiens isolate PH-36 D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948112|gb|EU239599.1| [160948112]

63: EU239598  
Homo sapiens isolate PH-35 D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948111|gb|EU239598.1| [160948111]

64: EU239597  
Homo sapiens isolate PH-34 D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948110|gb|EU239597.1| [160948110]

65: EU239596

Homo sapiens isolate PH-33 D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948109|gb|EU239596.1| [160948109]

66: EU239595  
Homo sapiens isolate PH-32 D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948108|gb|EU239595.1| [160948108]

67: EU239594  
Homo sapiens isolate PH-31 D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948107|gb|EU239594.1| [160948107]

68: EU239593  
Homo sapiens isolate PH-28 D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948106|gb|EU239593.1| [160948106]

69: EU239592  
Homo sapiens isolate PH-26 D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948105|gb|EU239592.1| [160948105]

70: EU239591  
Homo sapiens isolate PH-22 D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948104|gb|EU239591.1| [160948104]

71: EU239590  
Homo sapiens isolate PH-20 D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948103|gb|EU239590.1| [160948103]

72: EU239589  
Homo sapiens isolate PH-17 D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948102|gb|EU239589.1| [160948102]

73: EU239588  
Homo sapiens isolate PH-14 D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial

gil160948101|gb|EU239588.1| [160948101]

74: EU239587  
Homo sapiens isolate PH-10 D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948100|gb|EU239587.1| [160948100]

75: EU239586  
Homo sapiens isolate PH-9 D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948099|gb|EU239586.1| [160948099]

76: EU239585  
Homo sapiens isolate PH-5 D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948098|gb|EU239585.1| [160948098]

77: EU239584  
Homo sapiens isolate PH-3 D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948097|gb|EU239584.1| [160948097]

78: EU239583  
Homo sapiens isolate PH-1 D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948096|gb|EU239583.1| [160948096]

79: EU239582  
Homo sapiens isolate Ar135 D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948095|gb|EU239582.1| [160948095]

80: EU239581  
Homo sapiens isolate Ar128 D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948094|gb|EU239581.1| [160948094]

81: EU239580  
Homo sapiens isolate Ar126 D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948093|gb|EU239580.1| [160948093]

82: EU239579

Homo sapiens isolate Ar102 D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948092|gb|EU239579.1| [160948092]

83: EU239578  
Homo sapiens isolate Ar85 D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948091|gb|EU239578.1| [160948091]

84: EU239577  
Homo sapiens isolate Ar74 D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948090|gb|EU239577.1| [160948090]

85: EU239576  
Homo sapiens isolate Ar68 D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948089|gb|EU239576.1| [160948089]

86: EU239575  
Homo sapiens isolate Ar67 D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948088|gb|EU239575.1| [160948088]

87: EU239574  
Homo sapiens isolate Ar58 D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948087|gb|EU239574.1| [160948087]

88: EU239573  
Homo sapiens isolate Ar57 D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948086|gb|EU239573.1| [160948086]

89: EU239572  
Homo sapiens isolate Ar56 D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948085|gb|EU239572.1| [160948085]

90: EU239571  
Homo sapiens isolate Ar53 D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial

gil160948084|gb|EU239571.1| [160948084]

91: EU239570  
Homo sapiens isolate Ar48 D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948083|gb|EU239570.1| [160948083]

92: EU239569  
Homo sapiens isolate Ar42 D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948082|gb|EU239569.1| [160948082]

93: EU239568  
Homo sapiens isolate Ar38 D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948081|gb|EU239568.1| [160948081]

94: EU239567  
Homo sapiens isolate Ar34 D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948080|gb|EU239567.1| [160948080]

95: EU239566  
Homo sapiens isolate Ar22 D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948079|gb|EU239566.1| [160948079]

96: EU239565  
Homo sapiens isolate Ar21 D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948078|gb|EU239565.1| [160948078]

97: EU239564  
Homo sapiens isolate Ar20 D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948077|gb|EU239564.1| [160948077]

98: EU239563  
Homo sapiens isolate Ar19 D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948076|gb|EU239563.1| [160948076]

99: EU239562

Homo sapiens isolate Ar16 D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948075|gb|EU239562.1| [160948075]

100: EU239561  
Homo sapiens isolate Ar15 D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948074|gb|EU239561.1| [160948074]

101: EU239560  
Homo sapiens isolate Ar2 D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948073|gb|EU239560.1| [160948073]

102: EU239559  
Homo sapiens isolate pH24E D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948072|gb|EU239559.1| [160948072]

103: EU239558  
Homo sapiens isolate pH23E D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948071|gb|EU239558.1| [160948071]

104: EU239557  
Homo sapiens isolate pH22E D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948070|gb|EU239557.1| [160948070]

105: EU239556  
Homo sapiens isolate pH21E D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948069|gb|EU239556.1| [160948069]

106: EU239555  
Homo sapiens isolate pH20E D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948068|gb|EU239555.1| [160948068]

107: EU239554  
Homo sapiens isolate pH19E D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial

gil160948067|gb|EU239554.1| [160948067]

108: EU239553  
Homo sapiens isolate pH18E D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948066|gb|EU239553.1| [160948066]

109: EU239552  
Homo sapiens isolate pH17E D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948065|gb|EU239552.1| [160948065]

110: EU239551  
Homo sapiens isolate pH16E D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948064|gb|EU239551.1| [160948064]

111: EU239550  
Homo sapiens isolate pH15E D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948063|gb|EU239550.1| [160948063]

112: EU239549  
Homo sapiens isolate pH14E D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948062|gb|EU239549.1| [160948062]

113: EU239548  
Homo sapiens isolate pH13E D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948061|gb|EU239548.1| [160948061]

114: EU239547  
Homo sapiens isolate pH12E D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948060|gb|EU239547.1| [160948060]

115: EU239546  
Homo sapiens isolate pH11E D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948059|gb|EU239546.1| [160948059]

116: EU239545

Homo sapiens isolate pH10E D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948058|gb|EU239545.1| [160948058]

117: EU239544  
Homo sapiens isolate pH9E D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948057|gb|EU239544.1| [160948057]

118: EU239543  
Homo sapiens isolate pH7aE D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948056|gb|EU239543.1| [160948056]

119: EU239542  
Homo sapiens isolate pH7E D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948055|gb|EU239542.1| [160948055]

120: EU239541  
Homo sapiens isolate pH6E D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948054|gb|EU239541.1| [160948054]

121: EU239540  
Homo sapiens isolate pH5E D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948053|gb|EU239540.1| [160948053]

122: EU239539  
Homo sapiens isolate pH4E D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948052|gb|EU239539.1| [160948052]

123: EU239538  
Homo sapiens isolate pH3E D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948051|gb|EU239538.1| [160948051]

124: EU239537  
Homo sapiens isolate pH2E D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial

gil160948050|gb|EU239537.1| [160948050]

125: EU239536  
Homo sapiens isolate pH1E D-loop, partial sequence; tRNA-Phe gene, complete sequence; and 12S ribosomal RNA gene, partial sequence; mitochondrial  
gil160948049|gb|EU239536.1| [160948049]

126: EU181364  
Homo sapiens isolate PH88Yb control region, partial sequence; mitochondrial  
gil158266574|gb|EU181364.1| [158266574]

127: EU181363  
Homo sapiens isolate PHY2b control region, partial sequence; mitochondrial  
gil158266573|gb|EU181363.1| [158266573]

128: EU181362  
Homo sapiens isolate PH25Y2b control region, partial sequence; mitochondrial  
gil158266572|gb|EU181362.1| [158266572]

129: EU181361  
Homo sapiens isolate PH76Y2b control region, partial sequence; mitochondrial  
gil158266571|gb|EU181361.1| [158266571]

130: EU181360  
Homo sapiens isolate PH98Y2 control region, partial sequence; mitochondrial  
gil158266570|gb|EU181360.1| [158266570]

131: EU181359  
Homo sapiens isolate PH85Yb control region, partial sequence; mitochondrial  
gil158266569|gb|EU181359.1| [158266569]

132: EU181358  
Homo sapiens isolate PH24Y2b control region, partial sequence; mitochondrial  
gil158266568|gb|EU181358.1| [158266568]

133: EU181357  
Homo sapiens isolate PH77Y2b control region, partial sequence; mitochondrial  
gil158266567|gb|EU181357.1| [158266567]

134: EU181356  
Homo sapiens isolate PH86Y2b control region, partial sequence; mitochondrial  
gil158266566|gb|EU181356.1| [158266566]

135: EU181355  
Homo sapiens isolate PH9bY2 control region, partial sequence; mitochondrial  
gil158266565|gb|EU181355.1| [158266565]

136: EU181354

Homo sapiens isolate PH97Y2b control region, partial sequence; mitochondrial  
gil158266564|gb|EU181354.1| [158266564]

137: EU181353

Homo sapiens isolate PH79Y2b control region, partial sequence; mitochondrial  
gil158266563|gb|EU181353.1| [158266563]

138: EU181352

Homo sapiens isolate PH28Y2 control region, partial sequence; mitochondrial  
gil158266562|gb|EU181352.1| [158266562]

139: EU181351

Homo sapiens isolate PH93Y2b control region, partial sequence; mitochondrial  
gil158266561|gb|EU181351.1| [158266561]

140: EU181350

Homo sapiens isolate PH75Yb control region, partial sequence; mitochondrial  
gil158266560|gb|EU181350.1| [158266560]

141: EU181349

Homo sapiens isolate PH92Y2 control region, partial sequence; mitochondrial  
gil158266559|gb|EU181349.1| [158266559]

142: EU181348

Homo sapiens isolate pH47m control region, partial sequence; mitochondrial  
gil158266558|gb|EU181348.1| [158266558]

143: EU181347

Homo sapiens isolate pH32m control region, partial sequence; mitochondrial  
gil158266557|gb|EU181347.1| [158266557]

144: EU181346

Homo sapiens isolate pH38m control region, partial sequence; mitochondrial  
gil158266556|gb|EU181346.1| [158266556]

145: EU181345

Homo sapiens isolate pH42m control region, partial sequence; mitochondrial  
gil158266555|gb|EU181345.1| [158266555]

146: EU181344

Homo sapiens isolate pH28m control region, partial sequence; mitochondrial  
gil158266554|gb|EU181344.1| [158266554]

147: EU181343

Homo sapiens isolate pH44m control region, partial sequence; mitochondrial  
gil158266553|gb|EU181343.1| [158266553]

148: EU181342

Homo sapiens isolate pH46m control region, partial sequence; mitochondrial  
gil158266552|gb|EU181342.1| [158266552]

149: EU181341

Homo sapiens isolate pH25m control region, partial sequence; mitochondrial  
gil158266551|gb|EU181341.1| [158266551]

150: EU181340

Homo sapiens isolate pH35am control region, partial sequence; mitochondrial  
gil158266550|gb|EU181340.1| [158266550]

151: EU181339

Homo sapiens isolate pH36m control region, partial sequence; mitochondrial  
gil158266549|gb|EU181339.1| [158266549]

152: EU181338

Homo sapiens isolate pH39m control region, partial sequence; mitochondrial  
gil158266548|gb|EU181338.1| [158266548]

153: EU181337

Homo sapiens isolate pH29m control region, partial sequence; mitochondrial  
gil158266547|gb|EU181337.1| [158266547]

154: EU181336

Homo sapiens isolate pH40m control region, partial sequence; mitochondrial  
gil158266546|gb|EU181336.1| [158266546]

155: EU181335

Homo sapiens isolate pH26m control region, partial sequence; mitochondrial  
gil158266545|gb|EU181335.1| [158266545]

156: EU181334

Homo sapiens isolate pH34m control region, partial sequence; mitochondrial  
gil158266544|gb|EU181334.1| [158266544]

157: EU181333

Homo sapiens isolate pH35bm control region, partial sequence; mitochondrial  
gil158266543|gb|EU181333.1| [158266543]

158: EU181332

Homo sapiens isolate pH48m control region, partial sequence; mitochondrial  
gil158266542|gb|EU181332.1| [158266542]

159: EU181331

Homo sapiens isolate pH45m control region, partial sequence; mitochondrial  
gil158266541|gb|EU181331.1| [158266541]

160: EU181330

Homo sapiens isolate pH49m control region, partial sequence; mitochondrial  
gil158266540|gb|EU181330.1| [158266540]

161: EU181329

Homo sapiens isolate pH4m control region, partial sequence; mitochondrial  
gil158266539|gb|EU181329.1| [158266539]

162: EU181328

Homo sapiens isolate pH27m control region, partial sequence; mitochondrial  
gil158266538|gb|EU181328.1| [158266538]

163: EU181327

Homo sapiens isolate PH26 control region, partial sequence; mitochondrial  
gil158266537|gb|EU181327.1| [158266537]

164: EU181326

Homo sapiens isolate PH48 control region, partial sequence; mitochondrial  
gil158266536|gb|EU181326.1| [158266536]

165: EU181325

Homo sapiens isolate PH5 control region, partial sequence; mitochondrial  
gil158266535|gb|EU181325.1| [158266535]

166: EU181324

Homo sapiens isolate PH35 control region, partial sequence; mitochondrial  
gil158266534|gb|EU181324.1| [158266534]

167: EU181323

Homo sapiens isolate PH58 control region, partial sequence; mitochondrial  
gil158266533|gb|EU181323.1| [158266533]

168: EU181322

Homo sapiens isolate PH38 control region, partial sequence; mitochondrial  
gil158266532|gb|EU181322.1| [158266532]

169: EU181321

Homo sapiens isolate PH47 control region, partial sequence; mitochondrial  
gil158266531|gb|EU181321.1| [158266531]

170: EU181320

Homo sapiens isolate Ph3a control region, partial sequence; mitochondrial  
gil158266530|gb|EU181320.1| [158266530]

171: EU181319

Homo sapiens isolate PH3 control region, partial sequence; mitochondrial  
gil158266529|gb|EU181319.1| [158266529]

172: EU181318

Homo sapiens isolate PH32 control region, partial sequence; mitochondrial  
gil158266528|gb|EU181318.1| [158266528]

173: EU181317

Homo sapiens isolate PH28 control region, partial sequence; mitochondrial  
gil158266527|gb|EU181317.1| [158266527]

174: EU181316

Homo sapiens isolate PH9 control region, partial sequence; mitochondrial  
gil158266526|gb|EU181316.1| [158266526]

175: EU181315

Homo sapiens isolate PH7 control region, partial sequence; mitochondrial  
gil158266525|gb|EU181315.1| [158266525]

176: EU181314

Homo sapiens isolate PH34 control region, partial sequence; mitochondrial  
gil158266524|gb|EU181314.1| [158266524]

177: EU181313

Homo sapiens isolate PH4 control region, partial sequence; mitochondrial  
gil158266523|gb|EU181313.1| [158266523]

178: EU181312

Homo sapiens isolate PH22 control region, partial sequence; mitochondrial  
gil158266522|gb|EU181312.1| [158266522]

179: EU181311

Homo sapiens isolate PH46 control region, partial sequence; mitochondrial  
gil158266521|gb|EU181311.1| [158266521]

180: EU181310

Homo sapiens isolate PH0 control region, partial sequence; mitochondrial  
gil158266520|gb|EU181310.1| [158266520]

181: EU181309

Homo sapiens isolate PH36 control region, partial sequence; mitochondrial  
gil158266519|gb|EU181309.1| [158266519]

182: EU181308

Homo sapiens isolate PhaK control region, partial sequence; mitochondrial  
gil158266518|gb|EU181308.1| [158266518]

183: EU181307

Homo sapiens isolate Ph7aK control region, partial sequence; mitochondrial  
gil158266517|gb|EU181307.1| [158266517]

184: EU181306

Homo sapiens isolate Ph0K control region, partial sequence; mitochondrial  
gil158266516|gb|EU181306.1| [158266516]

185: EU181305

Homo sapiens isolate Ph8aK control region, partial sequence; mitochondrial  
gil158266515|gb|EU181305.1| [158266515]

186: EU181304

Homo sapiens isolate Ph4aK control region, partial sequence; mitochondrial  
gil158266514|gb|EU181304.1| [158266514]

187: EU181303

Homo sapiens isolate PhK control region, partial sequence; mitochondrial  
gil158266513|gb|EU181303.1| [158266513]

188: EU181302

Homo sapiens isolate Ph7K control region, partial sequence; mitochondrial  
gil158266512|gb|EU181302.1| [158266512]

189: EU181301

Homo sapiens isolate Ph24K control region, partial sequence; mitochondrial  
gil158266511|gb|EU181301.1| [158266511]

190: EU181300

Homo sapiens isolate Ph4K control region, partial sequence; mitochondrial  
gil158266510|gb|EU181300.1| [158266510]

191: EU181299

Homo sapiens isolate Ph25K control region, partial sequence; mitochondrial  
gil158266509|gb|EU181299.1| [158266509]

192: EU181298

Homo sapiens isolate Ph9K control region, partial sequence; mitochondrial  
gil158266508|gb|EU181298.1| [158266508]

193: EU181297

Homo sapiens isolate Ph2K control region, partial sequence; mitochondrial  
gil158266507|gb|EU181297.1| [158266507]

194: EU181296

Homo sapiens isolate Ph8K control region, partial sequence; mitochondrial  
gil158266506|gb|EU181296.1| [158266506]

195: EU181295

Homo sapiens isolate Ph20K control region, partial sequence; mitochondrial  
gil158266505|gb|EU181295.1| [158266505]

196: EU181294

Homo sapiens isolate Ph23K control region, partial sequence; mitochondrial  
gil158266504|gb|EU181294.1| [158266504]

197: EU181293

Homo sapiens isolate Ph3K control region, partial sequence; mitochondrial  
gil158266503|gb|EU181293.1| [158266503]

198: EU181292

Homo sapiens isolate Ph5K control region, partial sequence; mitochondrial  
gil158266502|gb|EU181292.1| [158266502]

199: EU181291

Homo sapiens isolate pH18E control region, partial sequence; mitochondrial  
gil158266501|gb|EU181291.1| [158266501]

200: EU181290

Homo sapiens isolate pH1E control region, partial sequence; mitochondrial  
gil158266500|gb|EU181290.1| [158266500]

201: EU181289

Homo sapiens isolate pH8E control region, partial sequence; mitochondrial  
gil158266499|gb|EU181289.1| [158266499]

202: EU181288

Homo sapiens isolate Ph3aE control region, partial sequence; mitochondrial  
gil158266498|gb|EU181288.1| [158266498]

203: EU181287

Homo sapiens isolate pH4E control region, partial sequence; mitochondrial  
gil158266497|gb|EU181287.1| [158266497]

204: EU181286

Homo sapiens isolate pH5E control region, partial sequence; mitochondrial  
gil158266496|gb|EU181286.1| [158266496]

205: EU181285

Homo sapiens isolate pH3E control region, partial sequence; mitochondrial  
gil158266495|gb|EU181285.1| [158266495]

206: EU181284

Homo sapiens isolate pH22E control region, partial sequence; mitochondrial  
gil158266494|gb|EU181284.1| [158266494]

207: EU181283

Homo sapiens isolate pHE control region, partial sequence; mitochondrial  
gil158266493|gb|EU181283.1| [158266493]

208: EU181282

Homo sapiens isolate Ar38 control region, partial sequence; mitochondrial  
gil158266492|gb|EU181282.1| [158266492]

209: EU181281

Homo sapiens isolate Ar2a control region, partial sequence; mitochondrial  
gil158266491|gb|EU181281.1| [158266491]

210: EU181280

Homo sapiens isolate Ar22b control region, partial sequence; mitochondrial  
gil158266490|gb|EU181280.1| [158266490]

211: EU181279

Homo sapiens isolate Ar22a control region, partial sequence; mitochondrial  
gil158266489|gb|EU181279.1| [158266489]

212: EU181278

Homo sapiens isolate Ar2 control region, partial sequence; mitochondrial  
gil158266488|gb|EU181278.1| [158266488]

213: EU181277

Homo sapiens isolate Ar67 control region, partial sequence; mitochondrial  
gil158266487|gb|EU181277.1| [158266487]

214: EU181276

Homo sapiens isolate Ar20 control region, partial sequence; mitochondrial  
gil158266486|gb|EU181276.1| [158266486]

215: EU181275

Homo sapiens isolate Ar26 control region, partial sequence; mitochondrial  
gil158266485|gb|EU181275.1| [158266485]

216: EU181274

Homo sapiens isolate Ar85 control region, partial sequence; mitochondrial  
gil158266484|gb|EU181274.1| [158266484]

217: EU181273

Homo sapiens isolate Ar74 control region, partial sequence; mitochondrial  
gil158266483|gb|EU181273.1| [158266483]

218: EU181272

Homo sapiens isolate Ar9Ah2 control region, partial sequence; mitochondrial  
gil158266482|gb|EU181272.1| [158266482]

219: EU181271

Homo sapiens isolate Ar68 control region, partial sequence; mitochondrial  
gil158266481|gb|EU181271.1| [158266481]

220: EU181270

Homo sapiens isolate Ar58 control region, partial sequence; mitochondrial  
gil158266480|gb|EU181270.1| [158266480]

221: EU181269

Homo sapiens isolate Ar53 control region, partial sequence; mitochondrial  
gil158266479|gb|EU181269.1| [158266479]

222: EU181268

Homo sapiens isolate Ar28 control region, partial sequence; mitochondrial  
gil158266478|gb|EU181268.1| [158266478]

223: EU181267

Homo sapiens isolate Ar42 control region, partial sequence; mitochondrial  
gil158266477|gb|EU181267.1| [158266477]

224: EU181266

Homo sapiens isolate Ar56 control region, partial sequence; mitochondrial  
gil158266476|gb|EU181266.1| [158266476]

225: DQ900749

Homo sapiens isolate TW7 control region, partial sequence; mitochondrial  
gil14224783|gb|DQ900749.1| [14224783]

226: DQ900748

Homo sapiens isolate KPLN1 control region, partial sequence; mitochondrial  
gil14224782|gb|DQ900748.1| [14224782]

227: DQ900747

Homo sapiens isolate PBOH2 control region, partial sequence; mitochondrial  
gil14224781|gb|DQ900747.1| [14224781]

228: DQ900746

Homo sapiens isolate KU9 control region, partial sequence; mitochondrial  
gil14224780|gb|DQ900746.1| [14224780]

229: DQ900745

Homo sapiens isolate P04 control region, partial sequence; mitochondrial  
gil14224779|gb|DQ900745.1| [14224779]

230: DQ900744

Homo sapiens isolate P001 control region, partial sequence; mitochondrial  
gil14224778|gb|DQ900744.1| [14224778]

231: DQ900743

Homo sapiens isolate KU61 control region, partial sequence; mitochondrial  
gil14224777|gb|DQ900743.1| [14224777]

232: DQ900742

Homo sapiens isolate KU60 control region, partial sequence; mitochondrial  
gil114224776|gb|DQ900742.1| [114224776]

233: AY203963  
Homo sapiens clone 2 type II hair keratin gene, partial cds  
gil37781622|gb|AY203963.1| [37781622]

234: AY037552  
Homo sapiens clone 1 type II hair-specific keratin (KRTHB6) gene, promoter region and partial cds  
gil21307735|gb|AY037552.1| [21307735]

235: DQ200830  
Homo sapiens isolate 35T-HVR1-NORTH control region, partial sequence; mitochondrial  
gil77862246|gb|DQ200830.1| [77862246]

236: DQ200829  
Homo sapiens isolate 35N-HVR1-NORTH control region, partial sequence; mitochondrial  
gil77862245|gb|DQ200829.1| [77862245]

237: DQ200828  
Homo sapiens isolate 60T-HVR1-NORTH control region, partial sequence; mitochondrial  
gil77862244|gb|DQ200828.1| [77862244]

238: DQ200827  
Homo sapiens isolate 60N-HVR1-NORTH control region, partial sequence; mitochondrial  
gil77862243|gb|DQ200827.1| [77862243]

239: DQ200826  
Homo sapiens isolate 14T-HVR1-NORTH control region, partial sequence; mitochondrial  
gil77862242|gb|DQ200826.1| [77862242]

240: DQ200825  
Homo sapiens isolate 14N-HVR1-NORTH control region, partial sequence; mitochondrial  
gil77862241|gb|DQ200825.1| [77862241]

241: DQ200824  
Homo sapiens isolate 41T-HVR1-NORTH control region, partial sequence; mitochondrial  
gil77862240|gb|DQ200824.1| [77862240]

242: DQ200823  
Homo sapiens isolate 41N-HVR1-NORTH control region, partial sequence; mitochondrial  
gil77862239|gb|DQ200823.1| [77862239]

243: DQ200822  
Homo sapiens isolate 46-TUMOR-HVR1-NORTH control region, partial sequence; mitochondrial  
gil77862238|gb|DQ200822.1| [77862238]

244: DQ200821  
Homo sapiens isolate 45-NORMAL-HVR1-NORTH control region, partial sequence; mitochondrial  
gil77862237|gb|DQ200821.1| [77862237]

245: DQ200820  
Homo sapiens isolate 58T-HVR1-NORTH control region, partial sequence; mitochondrial  
gil77862236|gb|DQ200820.1| [77862236]

246: DQ200819  
Homo sapiens isolate 58N-HVR1-NORTH control region, partial sequence; mitochondrial  
gil77862235|gb|DQ200819.1| [77862235]

247: DQ200818  
Homo sapiens isolate K50-TUMOR-HVR1-NORTH control region, partial sequence; mitochondrial  
gil77862234|gb|DQ200818.1| [77862234]

248: DQ200817  
Homo sapiens isolate K49-NORMAL-HVR1-NORTH control region, partial sequence; mitochondrial  
gil77862233|gb|DQ200817.1| [77862233]

249: DQ143207  
Homo sapiens isolate 37-T-HVR2-Kashmir control region, partial sequence; mitochondrial  
gil75678082|gb|DQ143207.1| [75678082]

250: DQ143206  
Homo sapiens isolate 37-N-HVR2-Kashmir control region, partial sequence; mitochondrial  
gil75678081|gb|DQ143206.1| [75678081]

251: DQ143205  
Homo sapiens isolate 32-T-HVR2-Kashmir control region, partial sequence; mitochondrial  
gil75678080|gb|DQ143205.1| [75678080]

252: DQ143204  
Homo sapiens isolate 32-N-HVR2-Kashmir control region, partial sequence; mitochondrial  
gil75678079|gb|DQ143204.1| [75678079]

253: DQ143203  
Homo sapiens isolate 21-T-HVR2-Delhi control region, partial sequence; mitochondrial  
gil75678078|gb|DQ143203.1| [75678078]

254: DQ143202  
Homo sapiens isolate 21-N-HVR2-Delhi control region, partial sequence; mitochondrial  
gil75678077|gb|DQ143202.1| [75678077]

255: DQ143201

Homo sapiens isolate 13-T-HVR2-Delhi control region, partial sequence; mitochondrial  
gil75678076|gb|DQ143201.1| [75678076]

256: DQ143200

Homo sapiens isolate 13-N-Hvr2-Delhi control region, partial sequence; mitochondrial  
gil75678075|gb|DQ143200.1| [75678075]

257: DQ143199

Homo sapiens isolate 19-T-Hvr2-Delhi control region, partial sequence; mitochondrial  
gil75678074|gb|DQ143199.1| [75678074]

258: DQ143198

Homo sapiens isolate 19-N-HVR2-Delhi control region, partial sequence; mitochondrial  
gil75678073|gb|DQ143198.1| [75678073]

259: DQ143197

Homo sapiens isolate 5-T-HVR2-Delhi control region, partial sequence; mitochondrial  
gil75678072|gb|DQ143197.1| [75678072]

260: DQ143196

Homo sapiens isolate 5-N-HVR2-Delhi control region, partial sequence; mitochondrial  
gil75678071|gb|DQ143196.1| [75678071]

261: DQ143195

Homo sapiens isolate 30-T-Kashmir-HVR1 control region, partial sequence; mitochondrial  
gil75678070|gb|DQ143195.1| [75678070]

262: DQ143194

Homo sapiens isolate 30-N-Kashmir-HVR1 control region, partial sequence; mitochondrial  
gil75678069|gb|DQ143194.1| [75678069]

263: DQ143193

Homo sapiens isolate 25-T-Kashmir-HVR1 control region, partial sequence; mitochondrial  
gil75678068|gb|DQ143193.1| [75678068]

264: DQ143192

Homo sapiens isolate 25-N-Kashmir-HVR1 control region, partial sequence; mitochondrial  
gil75678067|gb|DQ143192.1| [75678067]

265: DQ143191

Homo sapiens isolate 31-T-Delhi-HVR1 control region, partial sequence; mitochondrial  
gil75678066|gb|DQ143191.1| [75678066]

266: DQ143190

Homo sapiens isolate 31-N-Delhi-HVR1 control region, partial sequence; mitochondrial  
gil75678065|gb|DQ143190.1| [75678065]

267: DQ143189

Homo sapiens isolate 7-T-Delhi-HVR1 control region, partial sequence; mitochondrial  
gil75678064|gb|DQ143189.1| [75678064]

268: DQ143188

Homo sapiens isolate 7-N-Delhi-HVR1 control region, partial sequence; mitochondrial  
gil75678063|gb|DQ143188.1| [75678063]

269: DQ143187

Homo sapiens isolate 5-T-Delhi-HVR1 control region, partial sequence; mitochondrial  
gil75678062|gb|DQ143187.1| [75678062]

270: DQ143186

Homo sapiens isolate 5-N-Delhi-HVR1 control region, partial sequence; mitochondrial  
gil75678061|gb|DQ143186.1| [75678061]

271: DQ143185

Homo sapiens isolate 3-T-Delhi-HVR1 control region, partial sequence; mitochondrial  
gil75678060|gb|DQ143185.1| [75678060]

272: DQ143184

Homo sapiens isolate 3-N-Delhi-HVR1 control region, partial sequence; mitochondrial  
gil75678059|gb|DQ143184.1| [75678059]

273: DQ233635

Homo sapiens chromosome 16 from India genomic sequence  
gil78100381|gb|DQ233635.1| [78100381]

274: AF242584

Homo sapiens pyruvate kinase M2 gene, partial cds  
gil7649148|gb|AF242584.1| [7649148]

275: AF185280

Homo sapiens pyruvate kinase M2 gene, partial cds  
gil6018095|gb|AF185280.1| [6018095]

276: AF157693

Homo sapiens frameshifted pyruvate kinase M2 gene, partial cds  
gil5702303|gb|AF157693.1| [5702303]

277: AY899194

Homo sapiens clone UHC139 control region, partial sequence; mitochondrial  
gil58702602|gb|AY899194.1| [58702602]

278: AY899193

Homo sapiens clone UD50 control region, partial sequence; mitochondrial  
gil58702590|gb|AY899193.1| [58702590]

279: AY899192

Homo sapiens clone UD47 control region, partial sequence; mitochondrial  
gil58702566|gblAY899192.1| [58702566]

280: AY899191  
Homo sapiens clone SST4 control region, partial sequence; mitochondrial  
gil58702548|gblAY899191.1| [58702548]

281: AY899190  
Homo sapiens clone S18 control region, partial sequence; mitochondrial  
gil58702515|gblAY899190.1| [58702515]

282: AY899189  
Homo sapiens clone PSUR control region, partial sequence; mitochondrial  
gil58702495|gblAY899189.1| [58702495]

283: AY899188  
Homo sapiens clone PP76 control region, partial sequence; mitochondrial  
gil58702475|gblAY899188.1| [58702475]

284: AY899187  
Homo sapiens clone PP70 control region, partial sequence; mitochondrial  
gil58702453|gblAY899187.1| [58702453]

285: AY899186  
Homo sapiens clone PP64 control region, partial sequence; mitochondrial  
gil58702435|gblAY899186.1| [58702435]

286: AY899185  
Homo sapiens clone BVII control region, partial sequence; mitochondrial  
gil58702414|gblAY899185.1| [58702414]

287: AY899184  
Homo sapiens clone BHC27 control region, partial sequence; mitochondrial  
gil58702387|gblAY899184.1| [58702387]

288: AY899183  
Homo sapiens clone BHC156 control region, partial sequence; mitochondrial  
gil58702372|gblAY899183.1| [58702372]

289: AY899182  
Homo sapiens clone B16 control region, partial sequence; mitochondrial  
gil58702355|gblAY899182.1| [58702355]

290: AY642023  
Homo sapiens clone up64 HVRII control region, partial sequence; mitochondrial  
gil50956620|gblAY642023.1| [50956620]

291: AY642022

Homo sapiens clone up41 HVRII control region, partial sequence; mitochondrial  
gil50956619|gblAY642022.1| [50956619]

292: AY642021  
Homo sapiens clone pb57 HVRII control region, partial sequence; mitochondrial  
gil50956618|gblAY642021.1| [50956618]

293: AY642020  
Homo sapiens clone si153 HVRII control region, partial sequence; mitochondrial  
gil50956617|gblAY642020.1| [50956617]

294: AY642019  
Homo sapiens clone bi57 HVRII control region, partial sequence; mitochondrial  
gil50956616|gblAY642019.1| [50956616]

295: AY642018  
Homo sapiens clone up70 HVRII control region, partial sequence; mitochondrial  
gil50956615|gblAY642018.1| [50956615]

296: AY642017  
Homo sapiens clone bi31 HVRII control region, partial sequence; mitochondrial  
gil50956614|gblAY642017.1| [50956614]

297: AY642016  
Homo sapiens clone pb19 HVRII control region, partial sequence; mitochondrial  
gil50956613|gblAY642016.1| [50956613]

298: AY642015  
Homo sapiens clone pb15 HVRII control region, partial sequence; mitochondrial  
gil50956612|gblAY642015.1| [50956612]

299: AY642014  
Homo sapiens clone si103 HVRII control region, partial sequence; mitochondrial  
gil50956611|gblAY642014.1| [50956611]

300: AY642013  
Homo sapiens clone si23 HVRII control region, partial sequence; mitochondrial  
gil50956610|gblAY642013.1| [50956610]

301: AY642012  
Homo sapiens clone upD4 HVRII control region, partial sequence; mitochondrial  
gil50956609|gblAY642012.1| [50956609]

302: AY642011  
Homo sapiens clone up75 HVRII control region, partial sequence; mitochondrial  
gil50956608|gblAY642011.1| [50956608]

303: AY642010

Homo sapiens clone up49 HVRII control region, partial sequence; mitochondrial  
gil50956607|gblAY642010.1| [50956607]

304: AY642009  
Homo sapiens clone pb36 HVRII control region, partial sequence; mitochondrial  
gil50956606|gblAY642009.1| [50956606]

305: AY642008  
Homo sapiens clone si28 HVRII control region, partial sequence; mitochondrial  
gil50956605|gblAY642008.1| [50956605]

306: AY642007  
Homo sapiens clone si24 HVRII control region, partial sequence; mitochondrial  
gil50956604|gblAY642007.1| [50956604]

307: AY642006  
Homo sapiens clone bi55 HVRII control region, partial sequence; mitochondrial  
gil50956603|gblAY642006.1| [50956603]

308: AY642005  
Homo sapiens clone bi27 HVRII control region, partial sequence; mitochondrial  
gil50956602|gblAY642005.1| [50956602]

309: AY642004  
Homo sapiens clone bi13 HVRII control region, partial sequence; mitochondrial  
gil50956601|gblAY642004.1| [50956601]

310: AY642003  
Homo sapiens clone bi91 HVRII control region, partial sequence; mitochondrial  
gil50956600|gblAY642003.1| [50956600]

311: AY642002  
Homo sapiens clone bi72 HVRII control region, partial sequence; mitochondrial  
gil50956599|gblAY642002.1| [50956599]

312: AY642001  
Homo sapiens clone bi61 HVRII control region, partial sequence; mitochondrial  
gil50956598|gblAY642001.1| [50956598]

313: AY642000  
Homo sapiens clone bi48 HVRII control region, partial sequence; mitochondrial  
gil50956597|gblAY642000.1| [50956597]

314: AF542198  
Homo sapiens clone ASB MT-Vibs mitochondrial control region, partial sequence  
gil23344702|gblAF542198.1| [23344702]

315: AF542197  
Homo sapiens clone ASB MT-70 mitochondrial control region, partial sequence  
gil23344701|gblAF542197.1| [23344701]

316: AF542196  
Homo sapiens clone ASB MT-63 mitochondrial control region, partial sequence  
gil23344700|gblAF542196.1| [23344700]

317: AF542195  
Homo sapiens clone ASB MT-49 mitochondrial control region, partial sequence  
gil23344699|gblAF542195.1| [23344699]

318: AF542194  
Homo sapiens clone ASB MT-7 mitochondrial control region, partial sequence  
gil23344698|gblAF542194.1| [23344698]

319: AF542193  
Homo sapiens clone ASB MT-ST10 mitochondrial control region, partial sequence  
gil23344697|gblAF542193.1| [23344697]

320: AF542192  
Homo sapiens clone ASB MT-30 mitochondrial control region, partial sequence  
gil23344696|gblAF542192.1| [23344696]

321: AF467450  
Homo sapiens clone ASB MT-16 mitochondrial control region, partial sequence  
gil18448911|gblAF467450.1| [18448911]

322: AF467449  
Homo sapiens clone ASB MT-19 mitochondrial control region, partial sequence  
gil18448910|gblAF467449.1| [18448910]

323: AF467448  
Homo sapiens clone ASB MT-10 mitochondrial control region, partial sequence  
gil18448909|gblAF467448.1| [18448909]

324: AF467447  
Homo sapiens clone ASB MT-9a mitochondrial control region, partial sequence  
gil18448908|gblAF467447.1| [18448908]

325: AF467446  
Homo sapiens clone ASB MT-13 mitochondrial control region, partial sequence  
gil18448907|gblAF467446.1| [18448907]

326: AF467445  
Homo sapiens clone ASB MT-6 mitochondrial control region, partial sequence  
gil18448906|gblAF467445.1| [18448906]

327: DQ176764

Homo sapiens isolate UB31 control region, partial sequence; mitochondrial  
gil74273800|gb|DQ176764.1| [74273800]

328: DQ176763  
Homo sapiens isolate MMB46 control region, partial sequence; mitochondrial  
gil74273799|gb|DQ176763.1| [74273799]

329: DQ176762  
Homo sapiens isolate GB26 control region, partial sequence; mitochondrial  
gil74273798|gb|DQ176762.1| [74273798]

330: DQ176761  
Homo sapiens isolate GB14 control region, partial sequence; mitochondrial  
gil74273797|gb|DQ176761.1| [74273797]

331: DQ176760  
Homo sapiens isolate 43 control region, partial sequence; mitochondrial  
gil74273699|gb|DQ176760.1| [74273699]

332: DQ176759  
Homo sapiens isolate 34n control region, partial sequence; mitochondrial  
gil74273698|gb|DQ176759.1| [74273698]

333: DQ176758  
Homo sapiens isolate 29 control region, partial sequence; mitochondrial  
gil74273697|gb|DQ176758.1| [74273697]

334: DQ176757  
Homo sapiens isolate 27n control region, partial sequence; mitochondrial  
gil74273696|gb|DQ176757.1| [74273696]

335: AF378194  
Homo sapiens clone 6 interferon gamma (IFNG) gene, intron 1  
gil20513848|gb|AF378194.1| [20513848]

336: AF378193  
Homo sapiens clone 5 interferon gamma (IFNG) gene, intron 1  
gil20513847|gb|AF378193.1| [20513847]

337: AF378192  
Homo sapiens clone 4 interferon gamma (IFNG) gene, intron 1  
gil20513846|gb|AF378192.1| [20513846]

338: AF378191  
Homo sapiens clone 3 interferon gamma (IFNG) gene, intron 1  
gil20513845|gb|AF378191.1| [20513845]

339: AF378190  
Homo sapiens clone 2 interferon gamma (IFNG) gene, intron 1  
gil20513844|gb|AF378190.1| [20513844]

340: AF378189  
Homo sapiens clone 1 interferon gamma (IFNG) gene, intron 1  
gil20513843|gb|AF378189.1| [20513843]

341: AY613989  
Homo sapiens interleukin 6 gene, promoter region and exon 1  
gil50428878|gb|AY613989.1| [50428878]

342: AY576688  
Homo sapiens clone VLL transforming growth factor-beta 1 gene, exon 1 and partial cds  
gil50428876|gb|AY576688.1| [50428876]

343: AY576687  
Homo sapiens clone VR transforming growth factor-beta 1 gene, exon 1 and partial cds  
gil50428874|gb|AY576687.1| [50428874]

344: AY577521  
Homo sapiens Fas gene, exon 1 and 5' UTR  
gil50295648|gb|AY577521.1| [50295648]

345: AY576686  
Homo sapiens interferon-gamma gene, promoter region  
gil50253999|gb|AY576686.1| [50253999]

346: AY642040  
Homo sapiens clone kp74 HVRI control region, partial sequence; mitochondrial  
gil50919524|gb|AY642040.1| [50919524]

347: AY642039  
Homo sapiens clone kp5 HVRI control region, partial sequence; mitochondrial  
gil50919523|gb|AY642039.1| [50919523]

348: AY642038  
Homo sapiens clone kp7 HVRI control region, partial sequence; mitochondrial  
gil50919522|gb|AY642038.1| [50919522]

349: AY642037  
Homo sapiens clone km22 HVRI control region, partial sequence; mitochondrial  
gil50919521|gb|AY642037.1| [50919521]

350: AY642036  
Homo sapiens clone km83 HVRI control region, partial sequence; mitochondrial  
gil50919520|gb|AY642036.1| [50919520]

351: AY642035

Homo sapiens clone kp16 HVRI control region, partial sequence; mitochondrial  
gil50919519|gblAY642035.1| [50919519]

352: AY642034

Homo sapiens clone kp49 HVRI control region, partial sequence; mitochondrial  
gil50919518|gblAY642034.1| [50919518]

353: AY641999

Homo sapiens clone bi45 HVRII control region, partial sequence; mitochondrial  
gil50956596|gblAY641999.1| [50956596]

354: AY641998

Homo sapiens clone bi10 HVRII control region, partial sequence; mitochondrial  
gil50956595|gblAY641998.1| [50956595]

355: AY641997

Homo sapiens clone JKKM99 HVRII control region, partial sequence; mitochondrial  
gil50956594|gblAY641997.1| [50956594]

356: AY641996

Homo sapiens clone JKMC10 HVRII control region, partial sequence; mitochondrial  
gil50956593|gblAY641996.1| [50956593]

357: AY641995

Homo sapiens clone JKDN26 HVRII control region, partial sequence; mitochondrial  
gil50956592|gblAY641995.1| [50956592]

358: AY641994

Homo sapiens clone JKR4 HVRI control region, partial sequence; mitochondrial  
gil50956591|gblAY641994.1| [50956591]

359: AY641993

Homo sapiens clone JKSV15 HVRII control region, partial sequence; mitochondrial  
gil50956590|gblAY641993.1| [50956590]

360: AY641992

Homo sapiens chromosome Y SRY4064 region genomic sequence  
gil50956589|gblAY641992.1| [50956589]

361: AY642033

Homo sapiens clone JKSV14 HVRII control region, partial sequence; mitochondrial  
gil50919513|gblAY642033.1| [50919513]

362: AY642032

Homo sapiens clone JKSV24 HVRII control region, partial sequence; mitochondrial  
gil50919512|gblAY642032.1| [50919512]

363: AY642031

Homo sapiens clone JKKM32 HVRII control region, partial sequence; mitochondrial  
gil50919511|gblAY642031.1| [50919511]

364: AY642030

Homo sapiens clone JKKM18 HVRII control region, partial sequence; mitochondrial  
gil50919510|gblAY642030.1| [50919510]

365: AY642029

Homo sapiens clone JKKM62 HVRII control region, partial sequence; mitochondrial  
gil50919509|gblAY642029.1| [50919509]

366: AY642028

Homo sapiens clone JKR148 HVRII control region, partial sequence; mitochondrial  
gil50919508|gblAY642028.1| [50919508]

367: AY642027

Homo sapiens clone JKR114 HVRII control region, partial sequence; mitochondrial  
gil50919507|gblAY642027.1| [50919507]

368: AY642026

Homo sapiens clone JKR126 HVRII control region, partial sequence; mitochondrial  
gil50919506|gblAY642026.1| [50919506]

369: AY642025

Homo sapiens clone JKR131 HVRII control region, partial sequence; mitochondrial  
gil50919505|gblAY642025.1| [50919505]

370: AY642024

Homo sapiens clone JKR116 HVRII control region, partial sequence; mitochondrial  
gil50919504|gblAY642024.1| [50919504]

371: AY059373

Homo sapiens transforming growth factor beta 1 (TGFB1) gene, partial cds  
gil45602839|gblAY059373.2| [45602839]

372: AF362378

Homo sapiens interleukin 6 (IL6) gene, promoter region and 5' untranslated region  
gil19481401|gblAF362378.1| [19481401]

373: AY343912

Homo sapiens chromosome 17 map 17q21-23 unknown mRNA, partial sequence  
gil37813575|gblAY343912.1| [37813575]

374: AY152545

Homo sapiens clone SK3 type II keratin (KRTHB6) gene, exon 7 and partial cds  
gil37722558|gblAY152545.1| [37722558]

375: AY152544

Homo sapiens clone SK2 type II keratin (KRTHB6) gene, exon 7 and partial cds  
gil37722556|gblAY152544.1| [37722556]

376: AY152543

Homo sapiens clone SK1 type II keratin (KRTHB6) gene, exon 7 and partial cds  
gil37722554|gblAY152543.1| [37722554]

377: AY345602

Homo sapiens clone 2T microsatellite D17S379 sequence  
gil33590478|gblAY345602.1| [33590478]

378: AY345601

Homo sapiens clone 1 microsatellite D17S379 sequence  
gil33590477|gblAY345601.1| [33590477]

379: AY151039

Homo sapiens breast cancer susceptibility protein BRCA2 gene, exon 2 and partial cds  
gil23506222|gblAY151039.1| [23506222]

380: AF542199

Homo sapiens clone ASB MT-53 mitochondrial control region, partial sequence  
gil23344703|gblAF542199.1| [23344703]

381: AF416706

Homo sapiens hair-specific type II keratin protein (KRTHB6) gene, partial cds  
gil22725174|gblAF416706.1| [22725174]

382: AF416705

Homo sapiens keratin protein HB6 (KRTHB6) gene, partial cds  
gil22725172|gblAF416705.1| [22725172]

383: AY121753

Homo sapiens type II basic hair keratin (KRTHB1) gene, introns 6 and 7, exon 7 and partial cds  
gil22415732|gblAY121753.1| [22415732]

384: AY123848

Homo sapiens type II hair-specific keratin (KRTHB1) gene, partial cds  
gil22212272|gblAY123848.1| [22212272]

385: AF157691

Homo sapiens minisatellite sequence  
gil5702300|gblAF157691.1|AF157691 [5702300]

386: AF079321

Homo sapiens chromosome 17 clone pCMM86 map 17q, sequence tagged site  
gil4106409|gblAF079321.1|AF079321 [4106409]

387: AF201745

Homo sapiens minisatellite pbaML sequence  
gil6739819|gblAF201745.1|AF201745 [6739819]

388: AF216940

Gavialis gangeticus minisatellite sequence  
gil6708483|gblAF216940.1|AF216940 [6708483]

389: AF157692

Homo sapiens pyruvate kinase M2 gene, partial cds  
gil5702301|gblAF157692.1|AF157692 [5702301]

## PROTEINS

- 1: AAO63472  
type II hair keratin [Homo sapiens]  
gil37781623|gblAAO63472.1|[37781623]
- 2: AAF65764  
pyruvate kinase M2 [Homo sapiens]  
gil7649149|gblAAF65764.1|[7649149]
- 3: AAF01766  
pyruvate kinase M2 [Homo sapiens]  
gil6018096|gblAAF01766.1|[6018096]
- 4: AAD47249  
frameshifted pyruvate kinase M2 [Homo sapiens]  
gil5702304|gblAAD47249.1|[5702304]
- 5: AAL27646  
transforming growth factor beta 1 [Homo sapiens]  
gil45602840|gblAAL27646.2|[45602840]
- 6: ACF04131  
cytochrome c oxidase subunit I [Homo sapiens]  
gil192335153|gblACF04131.1|[192335153]
- 7: AAK68688  
type II hair-specific keratin [Homo sapiens]  
gil21307736|gblAAK68688.1|[21307736]
- 8: AAT77144  
transforming growth factor-beta 1 [Homo sapiens]  
gil50428877|gblAAT77144.1|[50428877]
- 9: AAT77143  
transforming growth factor-beta 1 [Homo sapiens]  
gil50428875|gblAAT77143.1|[50428875]
- 10: AAN75227  
type II keratin [Homo sapiens]  
gil37722559|gblAAN75227.1|[37722559]
- 11: AAN75226  
type II keratin [Homo sapiens]  
gil37722557|gblAAN75226.1|[37722557]
- 12: AAN75225  
type II keratin [Homo sapiens]  
gil37722555|gblAAN75225.1|[37722555]
- 13: AAN28944  
breast cancer susceptibility protein BRCA2 [Homo sapiens]  
gil23506223|gblAAN28944.1|[23506223]
- 14: AAN04664  
hair-specific type II keratin protein [Homo sapiens]  
gil22725175|gblAAN04664.1|[22725175]
- 15: AAN04663  
keratin protein HB6 [Homo sapiens]  
gil22725173|gblAAN04663.1|[22725173]
- 16: AAM94951  
type II basic hair keratin [Homo sapiens]  
gil22415733|gblAAM94951.1|[22415733]
- 17: AAM92877  
type II hair-specific keratin [Homo sapiens]  
gil22212273|gblAAM92877.1|[22212273]
- 18: AAD47248  
pyruvate kinase M2 [Homo sapiens]  
gil5702302|gblAAD47248.1|[5702302]
- 19: ACF36065  
cytochrome b [Homo sapiens]  
gil194268031|gblACF36065.1|[194268031]
- 20: ACF36064  
NADH dehydrogenase subunit 6 [Homo sapiens]  
gil194268030|gblACF36064.1|[194268030]
- 21: ACF36063  
NADH dehydrogenase subunit 5 [Homo sapiens]  
gil194268029|gblACF36063.1|[194268029]
- 22: ACF36062  
NADH dehydrogenase subunit 4 [Homo sapiens]  
gil194268028|gblACF36062.1|[194268028]
- 23: ACF36061  
NADH dehydrogenase subunit 4L [Homo sapiens]  
gil194268027|gblACF36061.1|[194268027]
- 24: ACF36060  
NADH dehydrogenase subunit 3 [Homo sapiens]  
gil194268026|gblACF36060.1|[194268026]
- 25: ACF36059  
cytochrome c oxidase subunit III [Homo sapiens]  
gil194268025|gblACF36059.1|[194268025]
- 26: ACF36058  
ATP synthase F0 subunit 6 [Homo sapiens]  
gil194268024|gblACF36058.1|[194268024]
- 27: ACF36057  
ATP synthase F0 subunit 8 [Homo sapiens]

gil194268023|gblACF36057.1|[194268023]

28: ACF36056  
cytochrome c oxidase subunit II [Homo sapiens]  
gil194268022|gblACF36056.1|[194268022]

29: ACF36055  
cytochrome c oxidase subunit I [Homo sapiens]  
gil194268021|gblACF36055.1|[194268021]

30: ACF36054  
NADH dehydrogenase subunit 2 [Homo sapiens]  
gil194268020|gblACF36054.1|[194268020]

31: ACF36053  
NADH dehydrogenase subunit 1 [Homo sapiens]  
gil194268019|gblACF36053.1|[194268019]

32: ACF36052  
cytochrome b [Homo sapiens]  
gil194268017|gblACF36052.1|[194268017]

33: ACF36051  
NADH dehydrogenase subunit 6 [Homo sapiens]  
gil194268016|gblACF36051.1|[194268016]

34: ACF36050  
NADH dehydrogenase subunit 5 [Homo sapiens]  
gil194268015|gblACF36050.1|[194268015]

35: ACF36049  
NADH dehydrogenase subunit 4 [Homo sapiens]  
gil194268014|gblACF36049.1|[194268014]

36: ACF36048  
NADH dehydrogenase subunit 4L [Homo sapiens]  
gil194268013|gblACF36048.1|[194268013]

37: ACF36047  
NADH dehydrogenase subunit 3 [Homo sapiens]  
gil194268012|gblACF36047.1|[194268012]

38: ACF36046  
cytochrome c oxidase subunit III [Homo sapiens]  
gil194268011|gblACF36046.1|[194268011]

39: ACF36045  
ATP synthase F0 subunit 6 [Homo sapiens]  
gil194268010|gblACF36045.1|[194268010]

40: ACF36044  
ATP synthase F0 subunit 8 [Homo sapiens]  
gil194268009|gblACF36044.1|[194268009]

41: ACF36043  
cytochrome c oxidase subunit II [Homo sapiens]  
gil194268008|gblACF36043.1|[194268008]

42: ACF36042  
cytochrome c oxidase subunit I [Homo sapiens]  
gil194268007|gblACF36042.1|[194268007]

43: ACF36041  
NADH dehydrogenase subunit 2 [Homo sapiens]  
gil194268006|gblACF36041.1|[194268006]

44: ACF36040  
NADH dehydrogenase subunit 1 [Homo sapiens]  
gil194268005|gblACF36040.1|[194268005]

45: ACF36039  
cytochrome b [Homo sapiens]  
gil194268003|gblACF36039.1|[194268003]

46: ACF36038  
NADH dehydrogenase subunit 6 [Homo sapiens]  
gil194268002|gblACF36038.1|[194268002]

47: ACF36037  
NADH dehydrogenase subunit 5 [Homo sapiens]  
gil194268001|gblACF36037.1|[194268001]

48: ACF36036  
NADH dehydrogenase subunit 4 [Homo sapiens]  
gil194268000|gblACF36036.1|[194268000]

49: ACF36035  
NADH dehydrogenase subunit 4L [Homo sapiens]  
gil194267999|gblACF36035.1|[194267999]

50: ACF36034  
NADH dehydrogenase subunit 3 [Homo sapiens]  
gil194267998|gblACF36034.1|[194267998]

51: ACF36033  
cytochrome c oxidase subunit III [Homo sapiens]  
gil194267997|gblACF36033.1|[194267997]

52: ACF36032  
ATP synthase F0 subunit 6 [Homo sapiens]  
gil194267996|gblACF36032.1|[194267996]

53: ACF36031  
ATP synthase F0 subunit 8 [Homo sapiens]  
gil194267995|gblACF36031.1|[194267995]

54: ACF36030  
cytochrome c oxidase subunit II [Homo sapiens]  
gil194267994|gblACF36030.1|[194267994]

55: ACF36029  
cytochrome c oxidase subunit I [Homo sapiens]  
gil194267993|gblACF36029.1|[194267993]

56: ACF36028  
NADH dehydrogenase subunit 2 [Homo sapiens]  
gil194267992|gblACF36028.1|[194267992]

57: ACF36027  
NADH dehydrogenase subunit 1 [Homo sapiens]  
gil194267991|gblACF36027.1|[194267991]

58: ACF36026  
cytochrome b [Homo sapiens]  
gil194267989|gblACF36026.1|[194267989]

59: ACF36025  
NADH dehydrogenase subunit 6 [Homo sapiens]  
gil194267988|gblACF36025.1|[194267988]

60: ACF36024  
NADH dehydrogenase subunit 5 [Homo sapiens]  
gil194267987|gblACF36024.1|[194267987]

61: ACF36023  
NADH dehydrogenase subunit 4 [Homo sapiens]  
gil194267986|gblACF36023.1|[194267986]

62: ACF36022  
NADH dehydrogenase subunit 4L [Homo sapiens]  
gil194267985|gblACF36022.1|[194267985]

63: ACF36021  
NADH dehydrogenase subunit 3 [Homo sapiens]  
gil194267984|gblACF36021.1|[194267984]

64: ACF36020  
cytochrome c oxidase subunit III [Homo sapiens]  
gil194267983|gblACF36020.1|[194267983]

65: ACF36019  
ATP synthase F0 subunit 6 [Homo sapiens]  
gil194267982|gblACF36019.1|[194267982]

66: ACF36018  
ATP synthase F0 subunit 8 [Homo sapiens]  
gil194267981|gblACF36018.1|[194267981]

67: ACF36017  
cytochrome c oxidase subunit II [Homo sapiens]  
gil194267980|gblACF36017.1|[194267980]

68: ACF36016  
cytochrome c oxidase subunit I [Homo sapiens]  
gil194267979|gblACF36016.1|[194267979]

69: ACF36015  
NADH dehydrogenase subunit 2 [Homo sapiens]  
gil194267978|gblACF36015.1|[194267978]

70: ACF36014  
NADH dehydrogenase subunit 1 [Homo sapiens]  
gil194267977|gblACF36014.1|[194267977]

71: ACF36013  
cytochrome b [Homo sapiens]  
gil194267975|gblACF36013.1|[194267975]

72: ACF36012  
NADH dehydrogenase subunit 6 [Homo sapiens]  
gil194267974|gblACF36012.1|[194267974]

73: ACF36011  
NADH dehydrogenase subunit 5 [Homo sapiens]  
gil194267973|gblACF36011.1|[194267973]

74: ACF36010  
NADH dehydrogenase subunit 4 [Homo sapiens]  
gil194267972|gblACF36010.1|[194267972]

75: ACF36009  
NADH dehydrogenase subunit 4L [Homo sapiens]  
gil194267971|gblACF36009.1|[194267971]

76: ACF36008  
NADH dehydrogenase subunit 3 [Homo sapiens]  
gil194267970|gblACF36008.1|[194267970]

77: ACF36007  
cytochrome c oxidase subunit III [Homo sapiens]  
gil194267969|gblACF36007.1|[194267969]

78: ACF36006  
ATP synthase F0 subunit 6 [Homo sapiens]  
gil194267968|gblACF36006.1|[194267968]

79: ACF36005  
ATP synthase F0 subunit 8 [Homo sapiens]  
gil194267967|gblACF36005.1|[194267967]

80: ACF36004  
cytochrome c oxidase subunit II [Homo sapiens]  
gil194267966|gblACF36004.1|[194267966]

81: ACF36003  
cytochrome c oxidase subunit I [Homo sapiens]  
gil194267965|gblACF36003.1|[194267965]

82: ACF36002  
NADH dehydrogenase subunit 2 [Homo sapiens]  
gil194267964|gblACF36002.1|[194267964]

83: ACF36001  
NADH dehydrogenase subunit 1 [Homo sapiens]  
gil194267963|gblACF36001.1|[194267963]

84: ACF36000  
cytochrome b [Homo sapiens]  
gil194267961|gblACF36000.1|[194267961]

85: ACF35999  
NADH dehydrogenase subunit 6 [Homo sapiens]  
gil194267960|gblACF35999.1|[194267960]

86: ACF35998  
NADH dehydrogenase subunit 5 [Homo sapiens]

gil194267959|gblACF35998.1|[194267959]  
87: ACF35997  
NADH dehydrogenase subunit 4 [Homo sapiens]  
gil194267958|gblACF35997.1|[194267958]  
88: ACF35996  
NADH dehydrogenase subunit 4L [Homo sapiens]  
gil194267957|gblACF35996.1|[194267957]  
89: ACF35995  
NADH dehydrogenase subunit 3 [Homo sapiens]  
gil194267956|gblACF35995.1|[194267956]  
90: ACF35994  
cytochrome c oxidase subunit III [Homo sapiens]  
gil194267955|gblACF35994.1|[194267955]  
91: ACF35993  
ATP synthase F0 subunit 6 [Homo sapiens]  
gil194267954|gblACF35993.1|[194267954]  
92: ACF35992  
ATP synthase F0 subunit 8 [Homo sapiens]  
gil194267953|gblACF35992.1|[194267953]  
93: ACF35991  
cytochrome c oxidase subunit II [Homo sapiens]  
gil194267952|gblACF35991.1|[194267952]  
94: ACF35990  
cytochrome c oxidase subunit I [Homo sapiens]  
gil194267951|gblACF35990.1|[194267951]  
95: ACF35989  
NADH dehydrogenase subunit 2 [Homo sapiens]  
gil194267950|gblACF35989.1|[194267950]  
96: ACF35988  
NADH dehydrogenase subunit 1 [Homo sapiens]  
gil194267949|gblACF35988.1|[194267949]  
97: ACF35987  
cytochrome b [Homo sapiens]  
gil194267947|gblACF35987.1|[194267947]  
98: ACF35986  
NADH dehydrogenase subunit 6 [Homo sapiens]  
gil194267946|gblACF35986.1|[194267946]  
99: ACF35985  
NADH dehydrogenase subunit 5 [Homo sapiens]  
gil194267945|gblACF35985.1|[194267945]  
100: ACF35984  
NADH dehydrogenase subunit 4 [Homo sapiens]  
gil194267944|gblACF35984.1|[194267944]  
101: ACF35983  
NADH dehydrogenase subunit 4L [Homo sapiens]  
gil194267943|gblACF35983.1|[194267943]  
102: ACF35982  
NADH dehydrogenase subunit 3 [Homo sapiens]  
gil194267942|gblACF35982.1|[194267942]  
103: ACF35981  
cytochrome c oxidase subunit III [Homo sapiens]  
gil194267941|gblACF35981.1|[194267941]  
104: ACF35980  
ATP synthase F0 subunit 6 [Homo sapiens]  
gil194267940|gblACF35980.1|[194267940]  
105: ACF35979  
ATP synthase F0 subunit 8 [Homo sapiens]  
gil194267939|gblACF35979.1|[194267939]  
106: ACF35978  
cytochrome c oxidase subunit II [Homo sapiens]  
gil194267938|gblACF35978.1|[194267938]  
107: ACF35977  
cytochrome c oxidase subunit I [Homo sapiens]  
gil194267937|gblACF35977.1|[194267937]  
108: ACF35976  
NADH dehydrogenase subunit 2 [Homo sapiens]  
gil194267936|gblACF35976.1|[194267936]  
109: ACF35975  
NADH dehydrogenase subunit 1 [Homo sapiens]  
gil194267935|gblACF35975.1|[194267935]  
110: ACF35974  
cytochrome b [Homo sapiens]  
gil194267933|gblACF35974.1|[194267933]  
111: ACF35973  
NADH dehydrogenase subunit 6 [Homo sapiens]  
gil194267932|gblACF35973.1|[194267932]  
112: ACF35972  
NADH dehydrogenase subunit 5 [Homo sapiens]  
gil194267931|gblACF35972.1|[194267931]  
113: ACF35971  
NADH dehydrogenase subunit 4 [Homo sapiens]  
gil194267930|gblACF35971.1|[194267930]  
114: ACF35970  
NADH dehydrogenase subunit 4L [Homo sapiens]  
gil194267929|gblACF35970.1|[194267929]  
115: ACF35969  
NADH dehydrogenase subunit 3 [Homo sapiens]  
gil194267928|gblACF35969.1|[194267928]

116: ACF35968  
cytochrome c oxidase subunit III [Homo sapiens]  
gil194267927|gblACF35968.1|[194267927]

117: ACF35967  
ATP synthase F0 subunit 6 [Homo sapiens]  
gil194267926|gblACF35967.1|[194267926]

118: ACF35966  
ATP synthase F0 subunit 8 [Homo sapiens]  
gil194267925|gblACF35966.1|[194267925]

119: ACF35965  
cytochrome c oxidase subunit II [Homo sapiens]  
gil194267924|gblACF35965.1|[194267924]

120: ACF35964  
cytochrome c oxidase subunit I [Homo sapiens]  
gil194267923|gblACF35964.1|[194267923]

121: ACF35963  
NADH dehydrogenase subunit 2 [Homo sapiens]  
gil194267922|gblACF35963.1|[194267922]

122: ACF35962  
NADH dehydrogenase subunit 1 [Homo sapiens]  
gil194267921|gblACF35962.1|[194267921]

123: ACF35961  
cytochrome b [Homo sapiens]  
gil194267919|gblACF35961.1|[194267919]

124: ACF35960  
NADH dehydrogenase subunit 6 [Homo sapiens]  
gil194267918|gblACF35960.1|[194267918]

125: ACF35959  
NADH dehydrogenase subunit 5 [Homo sapiens]  
gil194267917|gblACF35959.1|[194267917]

126: ACF35958  
NADH dehydrogenase subunit 4 [Homo sapiens]  
gil194267916|gblACF35958.1|[194267916]

127: ACF35957  
NADH dehydrogenase subunit 4L [Homo sapiens]  
gil194267915|gblACF35957.1|[194267915]

128: ACF35956  
NADH dehydrogenase subunit 3 [Homo sapiens]  
gil194267914|gblACF35956.1|[194267914]

129: ACF35955  
cytochrome c oxidase subunit III [Homo sapiens]  
gil194267913|gblACF35955.1|[194267913]

130: ACF35954  
ATP synthase F0 subunit 6 [Homo sapiens]  
gil194267912|gblACF35954.1|[194267912]

131: ACF35953  
ATP synthase F0 subunit 8 [Homo sapiens]  
gil194267911|gblACF35953.1|[194267911]

132: ACF35952  
cytochrome c oxidase subunit II [Homo sapiens]  
gil194267910|gblACF35952.1|[194267910]

133: ACF35951  
cytochrome c oxidase subunit I [Homo sapiens]  
gil194267909|gblACF35951.1|[194267909]

134: ACF35950  
NADH dehydrogenase subunit 2 [Homo sapiens]  
gil194267908|gblACF35950.1|[194267908]

135: ACF35949  
NADH dehydrogenase subunit 1 [Homo sapiens]  
gil194267907|gblACF35949.1|[194267907]

136: ACF35948  
cytochrome b [Homo sapiens]  
gil194267905|gblACF35948.1|[194267905]

137: ACF35947  
NADH dehydrogenase subunit 6 [Homo sapiens]  
gil194267904|gblACF35947.1|[194267904]

138: ACF35946  
NADH dehydrogenase subunit 5 [Homo sapiens]  
gil194267903|gblACF35946.1|[194267903]

139: ACF35945  
NADH dehydrogenase subunit 4 [Homo sapiens]  
gil194267902|gblACF35945.1|[194267902]

140: ACF35944  
NADH dehydrogenase subunit 4L [Homo sapiens]  
gil194267901|gblACF35944.1|[194267901]

141: ACF35943  
NADH dehydrogenase subunit 3 [Homo sapiens]  
gil194267900|gblACF35943.1|[194267900]

142: ACF35942  
cytochrome c oxidase subunit III [Homo sapiens]  
gil194267899|gblACF35942.1|[194267899]

143: ACF35941  
ATP synthase F0 subunit 6 [Homo sapiens]  
gil194267898|gblACF35941.1|[194267898]

144: ACF35940  
ATP synthase F0 subunit 8 [Homo sapiens]  
gil194267897|gblACF35940.1|[194267897]

145: ACF35939

cytochrome c oxidase subunit II [Homo sapiens]  
gil194267896|gblACF35939.1|[194267896]

146: ACF35938  
cytochrome c oxidase subunit I [Homo sapiens]  
gil194267895|gblACF35938.1|[194267895]

147: ACF35937  
NADH dehydrogenase subunit 2 [Homo sapiens]  
gil194267894|gblACF35937.1|[194267894]

148: ACF35936  
NADH dehydrogenase subunit 1 [Homo sapiens]  
gil194267893|gblACF35936.1|[194267893]

149: ACF35935  
cytochrome b [Homo sapiens]  
gil194267891|gblACF35935.1|[194267891]

150: ACF35934  
NADH dehydrogenase subunit 6 [Homo sapiens]  
gil194267890|gblACF35934.1|[194267890]

151: ACF35933  
NADH dehydrogenase subunit 5 [Homo sapiens]  
gil194267889|gblACF35933.1|[194267889]

152: ACF35932  
NADH dehydrogenase subunit 4 [Homo sapiens]  
gil194267888|gblACF35932.1|[194267888]

153: ACF35931  
NADH dehydrogenase subunit 4L [Homo sapiens]  
gil194267887|gblACF35931.1|[194267887]

154: ACF35930  
NADH dehydrogenase subunit 3 [Homo sapiens]  
gil194267886|gblACF35930.1|[194267886]

155: ACF35929  
cytochrome c oxidase subunit III [Homo sapiens]  
gil194267885|gblACF35929.1|[194267885]

156: ACF35928  
ATP synthase F0 subunit 6 [Homo sapiens]  
gil194267884|gblACF35928.1|[194267884]

157: ACF35927  
ATP synthase F0 subunit 8 [Homo sapiens]  
gil194267883|gblACF35927.1|[194267883]

158: ACF35926  
cytochrome c oxidase subunit II [Homo sapiens]  
gil194267882|gblACF35926.1|[194267882]

159: ACF35925  
cytochrome c oxidase subunit I [Homo sapiens]  
gil194267881|gblACF35925.1|[194267881]

160: ACF35924  
NADH dehydrogenase subunit 2 [Homo sapiens]  
gil194267880|gblACF35924.1|[194267880]

161: ACF35923  
NADH dehydrogenase subunit 1 [Homo sapiens]  
gil194267879|gblACF35923.1|[194267879]

162: ACF35922  
cytochrome b [Homo sapiens]  
gil194267877|gblACF35922.1|[194267877]

163: ACF35921  
NADH dehydrogenase subunit 6 [Homo sapiens]  
gil194267876|gblACF35921.1|[194267876]

164: ACF35920  
NADH dehydrogenase subunit 5 [Homo sapiens]  
gil194267875|gblACF35920.1|[194267875]

165: ACF35919  
NADH dehydrogenase subunit 4 [Homo sapiens]  
gil194267874|gblACF35919.1|[194267874]

166: ACF35918  
NADH dehydrogenase subunit 4L [Homo sapiens]  
gil194267873|gblACF35918.1|[194267873]

167: ACF35917  
NADH dehydrogenase subunit 3 [Homo sapiens]  
gil194267872|gblACF35917.1|[194267872]

168: ACF35916  
cytochrome c oxidase subunit III [Homo sapiens]  
gil194267871|gblACF35916.1|[194267871]

169: ACF35915  
ATP synthase F0 subunit 6 [Homo sapiens]  
gil194267870|gblACF35915.1|[194267870]

170: ACF35914  
ATP synthase F0 subunit 8 [Homo sapiens]  
gil194267869|gblACF35914.1|[194267869]

171: ACF35913  
cytochrome c oxidase subunit II [Homo sapiens]  
gil194267868|gblACF35913.1|[194267868]

172: ACF35912  
cytochrome c oxidase subunit I [Homo sapiens]  
gil194267867|gblACF35912.1|[194267867]

173: ACF35911  
NADH dehydrogenase subunit 2 [Homo sapiens]  
gil194267866|gblACF35911.1|[194267866]

174: ACF35910  
NADH dehydrogenase subunit 1 [Homo sapiens]  
gil194267865|gblACF35910.1|[194267865]

175: ACF35909  
cytochrome b [Homo sapiens]  
gil194267863|gblACF35909.1|[194267863]

176: ACF35908  
NADH dehydrogenase subunit 6 [Homo sapiens]  
gil194267862|gblACF35908.1|[194267862]

177: ACF35907  
NADH dehydrogenase subunit 5 [Homo sapiens]  
gil194267861|gblACF35907.1|[194267861]

178: ACF35906  
NADH dehydrogenase subunit 4 [Homo sapiens]  
gil194267860|gblACF35906.1|[194267860]

179: ACF35905  
NADH dehydrogenase subunit 4L [Homo sapiens]  
gil194267859|gblACF35905.1|[194267859]

180: ACF35904  
NADH dehydrogenase subunit 3 [Homo sapiens]  
gil194267858|gblACF35904.1|[194267858]

181: ACF35903  
cytochrome c oxidase subunit III [Homo sapiens]  
gil194267857|gblACF35903.1|[194267857]

182: ACF35902  
ATP synthase F0 subunit 6 [Homo sapiens]  
gil194267856|gblACF35902.1|[194267856]

183: ACF35901  
ATP synthase F0 subunit 8 [Homo sapiens]  
gil194267855|gblACF35901.1|[194267855]

184: ACF35900  
cytochrome c oxidase subunit II [Homo sapiens]  
gil194267854|gblACF35900.1|[194267854]

185: ACF35899  
cytochrome c oxidase subunit I [Homo sapiens]  
gil194267853|gblACF35899.1|[194267853]

186: ACF35898  
NADH dehydrogenase subunit 2 [Homo sapiens]  
gil194267852|gblACF35898.1|[194267852]

187: ACF35897  
NADH dehydrogenase subunit 1 [Homo sapiens]  
gil194267851|gblACF35897.1|[194267851]

188: ACF35896  
cytochrome b [Homo sapiens]  
gil194267849|gblACF35896.1|[194267849]

189: ACF35895  
NADH dehydrogenase subunit 6 [Homo sapiens]  
gil194267848|gblACF35895.1|[194267848]

190: ACF35894  
NADH dehydrogenase subunit 5 [Homo sapiens]  
gil194267847|gblACF35894.1|[194267847]

191: ACF35893  
NADH dehydrogenase subunit 4 [Homo sapiens]  
gil194267846|gblACF35893.1|[194267846]

192: ACF35892  
NADH dehydrogenase subunit 4L [Homo sapiens]  
gil194267845|gblACF35892.1|[194267845]

193: ACF35891  
NADH dehydrogenase subunit 3 [Homo sapiens]  
gil194267844|gblACF35891.1|[194267844]

194: ACF35890  
cytochrome c oxidase subunit III [Homo sapiens]  
gil194267843|gblACF35890.1|[194267843]

195: ACF35889  
ATP synthase F0 subunit 6 [Homo sapiens]  
gil194267842|gblACF35889.1|[194267842]

196: ACF35888  
ATP synthase F0 subunit 8 [Homo sapiens]  
gil194267841|gblACF35888.1|[194267841]

197: ACF35887  
cytochrome c oxidase subunit II [Homo sapiens]  
gil194267840|gblACF35887.1|[194267840]

198: ACF35886  
cytochrome c oxidase subunit I [Homo sapiens]  
gil194267839|gblACF35886.1|[194267839]

199: ACF35885  
NADH dehydrogenase subunit 2 [Homo sapiens]  
gil194267838|gblACF35885.1|[194267838]

200: ACF35884  
NADH dehydrogenase subunit 1 [Homo sapiens]  
gil194267837|gblACF35884.1|[194267837]

201: ACF35883  
cytochrome b [Homo sapiens]  
gil194267835|gblACF35883.1|[194267835]

202: ACF35882  
NADH dehydrogenase subunit 6 [Homo sapiens]  
gil194267834|gblACF35882.1|[194267834]

203: ACF35881  
NADH dehydrogenase subunit 5 [Homo sapiens]  
gil194267833|gblACF35881.1|[194267833]

204: ACF35880

NADH dehydrogenase subunit 4 [Homo sapiens]  
gil194267832|gblACF35880.1|[194267832]

205: ACF35879  
NADH dehydrogenase subunit 4L [Homo sapiens]  
gil194267831|gblACF35879.1|[194267831]

206: ACF35878  
NADH dehydrogenase subunit 3 [Homo sapiens]  
gil194267830|gblACF35878.1|[194267830]

207: ACF35877  
cytochrome c oxidase subunit III [Homo sapiens]  
gil194267829|gblACF35877.1|[194267829]

208: ACF35876  
ATP synthase F0 subunit 6 [Homo sapiens]  
gil194267828|gblACF35876.1|[194267828]

209: ACF35875  
ATP synthase F0 subunit 8 [Homo sapiens]  
gil194267827|gblACF35875.1|[194267827]

210: ACF35874  
cytochrome c oxidase subunit II [Homo sapiens]  
gil194267826|gblACF35874.1|[194267826]

211: ACF35873  
cytochrome c oxidase subunit I [Homo sapiens]  
gil194267825|gblACF35873.1|[194267825]

212: ACF35872  
NADH dehydrogenase subunit 2 [Homo sapiens]  
gil194267824|gblACF35872.1|[194267824]

213: ACF35871  
NADH dehydrogenase subunit 1 [Homo sapiens]  
gil194267823|gblACF35871.1|[194267823]

214: ACF35870  
cytochrome b [Homo sapiens]  
gil194267821|gblACF35870.1|[194267821]

215: ACF35869  
NADH dehydrogenase subunit 6 [Homo sapiens]  
gil194267820|gblACF35869.1|[194267820]

216: ACF35868  
NADH dehydrogenase subunit 5 [Homo sapiens]  
gil194267819|gblACF35868.1|[194267819]

217: ACF35867  
NADH dehydrogenase subunit 4 [Homo sapiens]  
gil194267818|gblACF35867.1|[194267818]

218: ACF35866  
NADH dehydrogenase subunit 4L [Homo sapiens]  
gil194267817|gblACF35866.1|[194267817]

219: ACF35865  
NADH dehydrogenase subunit 3 [Homo sapiens]  
gil194267816|gblACF35865.1|[194267816]

220: ACF35864  
cytochrome c oxidase subunit III [Homo sapiens]  
gil194267815|gblACF35864.1|[194267815]

221: ACF35863  
ATP synthase F0 subunit 6 [Homo sapiens]  
gil194267814|gblACF35863.1|[194267814]

222: ACF35862  
ATP synthase F0 subunit 8 [Homo sapiens]  
gil194267813|gblACF35862.1|[194267813]

223: ACF35861  
cytochrome c oxidase subunit II [Homo sapiens]  
gil194267812|gblACF35861.1|[194267812]

224: ACF35860  
cytochrome c oxidase subunit I [Homo sapiens]  
gil194267811|gblACF35860.1|[194267811]

225: ACF35859  
NADH dehydrogenase subunit 2 [Homo sapiens]  
gil194267810|gblACF35859.1|[194267810]

226: ACF35858  
NADH dehydrogenase subunit 1 [Homo sapiens]  
gil194267809|gblACF35858.1|[194267809]

227: ACF35857  
cytochrome b [Homo sapiens]  
gil194267807|gblACF35857.1|[194267807]

228: ACF35856  
NADH dehydrogenase subunit 6 [Homo sapiens]  
gil194267806|gblACF35856.1|[194267806]

229: ACF35855  
NADH dehydrogenase subunit 5 [Homo sapiens]  
gil194267805|gblACF35855.1|[194267805]

230: ACF35854  
NADH dehydrogenase subunit 4 [Homo sapiens]  
gil194267804|gblACF35854.1|[194267804]

231: ACF35853  
NADH dehydrogenase subunit 4L [Homo sapiens]  
gil194267803|gblACF35853.1|[194267803]

232: ACF35852  
NADH dehydrogenase subunit 3 [Homo sapiens]  
gil194267802|gblACF35852.1|[194267802]

233: ACF35851  
cytochrome c oxidase subunit III [Homo sapiens]

gil194267801|gblACF35851.1|[194267801]  
234: ACF35850  
ATP synthase F0 subunit 6 [Homo sapiens]  
gil194267800|gblACF35850.1|[194267800]  
235: ACF35849  
ATP synthase F0 subunit 8 [Homo sapiens]  
gil194267799|gblACF35849.1|[194267799]  
236: ACF35848  
cytochrome c oxidase subunit II [Homo sapiens]  
gil194267798|gblACF35848.1|[194267798]  
237: ACF35847  
cytochrome c oxidase subunit I [Homo sapiens]  
gil194267797|gblACF35847.1|[194267797]  
238: ACF35846  
NADH dehydrogenase subunit 2 [Homo sapiens]  
gil194267796|gblACF35846.1|[194267796]  
239: ACF35845  
NADH dehydrogenase subunit 1 [Homo sapiens]  
gil194267795|gblACF35845.1|[194267795]  
240: ACF35844  
cytochrome b [Homo sapiens]  
gil194267793|gblACF35844.1|[194267793]  
241: ACF35843  
NADH dehydrogenase subunit 6 [Homo sapiens]  
gil194267792|gblACF35843.1|[194267792]  
242: ACF35842  
NADH dehydrogenase subunit 5 [Homo sapiens]  
gil194267791|gblACF35842.1|[194267791]  
243: ACF35841  
NADH dehydrogenase subunit 4 [Homo sapiens]  
gil194267790|gblACF35841.1|[194267790]  
244: ACF35840  
NADH dehydrogenase subunit 4L [Homo sapiens]  
gil194267789|gblACF35840.1|[194267789]  
245: ACF35839  
NADH dehydrogenase subunit 3 [Homo sapiens]  
gil194267788|gblACF35839.1|[194267788]  
246: ACF35838  
cytochrome c oxidase subunit III [Homo sapiens]  
gil194267787|gblACF35838.1|[194267787]  
247: ACF35837  
ATP synthase F0 subunit 6 [Homo sapiens]  
gil194267786|gblACF35837.1|[194267786]  
248: ACF35836  
ATP synthase F0 subunit 8 [Homo sapiens]  
gil194267785|gblACF35836.1|[194267785]  
249: ACF35835  
cytochrome c oxidase subunit II [Homo sapiens]  
gil194267784|gblACF35835.1|[194267784]  
250: ACF35834  
cytochrome c oxidase subunit I [Homo sapiens]  
gil194267783|gblACF35834.1|[194267783]  
251: ACF35833  
NADH dehydrogenase subunit 2 [Homo sapiens]  
gil194267782|gblACF35833.1|[194267782]  
252: ACF35832  
NADH dehydrogenase subunit 1 [Homo sapiens]  
gil194267781|gblACF35832.1|[194267781]  
253: ACF35831  
cytochrome b [Homo sapiens]  
gil194267779|gblACF35831.1|[194267779]  
254: ACF35830  
NADH dehydrogenase subunit 6 [Homo sapiens]  
gil194267778|gblACF35830.1|[194267778]  
255: ACF35829  
NADH dehydrogenase subunit 5 [Homo sapiens]  
gil194267777|gblACF35829.1|[194267777]  
256: ACF35828  
NADH dehydrogenase subunit 4 [Homo sapiens]  
gil194267776|gblACF35828.1|[194267776]  
257: ACF35827  
NADH dehydrogenase subunit 4L [Homo sapiens]  
gil194267775|gblACF35827.1|[194267775]  
258: ACF35826  
NADH dehydrogenase subunit 3 [Homo sapiens]  
gil194267774|gblACF35826.1|[194267774]  
259: ACF35825  
cytochrome c oxidase subunit III [Homo sapiens]  
gil194267773|gblACF35825.1|[194267773]  
260: ACF35824  
ATP synthase F0 subunit 6 [Homo sapiens]  
gil194267772|gblACF35824.1|[194267772]  
261: ACF35823  
ATP synthase F0 subunit 8 [Homo sapiens]  
gil194267771|gblACF35823.1|[194267771]  
262: ACF35822  
cytochrome c oxidase subunit II [Homo sapiens]  
gil194267770|gblACF35822.1|[194267770]

263: ACF35821  
cytochrome c oxidase subunit I [Homo sapiens]  
gil194267769|gblACF35821.1|[194267769]

264: ACF35820  
NADH dehydrogenase subunit 2 [Homo sapiens]  
gil194267768|gblACF35820.1|[194267768]

265: ACF35819  
NADH dehydrogenase subunit 1 [Homo sapiens]  
gil194267767|gblACF35819.1|[194267767]

266: ACF35818  
cytochrome b [Homo sapiens]  
gil194267765|gblACF35818.1|[194267765]

267: ACF35817  
NADH dehydrogenase subunit 6 [Homo sapiens]  
gil194267764|gblACF35817.1|[194267764]

268: ACF35816  
NADH dehydrogenase subunit 5 [Homo sapiens]  
gil194267763|gblACF35816.1|[194267763]

269: ACF35815  
NADH dehydrogenase subunit 4 [Homo sapiens]  
gil194267762|gblACF35815.1|[194267762]

270: ACF35814  
NADH dehydrogenase subunit 4L [Homo sapiens]  
gil194267761|gblACF35814.1|[194267761]

271: ACF35813  
NADH dehydrogenase subunit 3 [Homo sapiens]  
gil194267760|gblACF35813.1|[194267760]

272: ACF35812  
cytochrome c oxidase subunit III [Homo sapiens]  
gil194267759|gblACF35812.1|[194267759]

273: ACF35811  
ATP synthase F0 subunit 6 [Homo sapiens]  
gil194267758|gblACF35811.1|[194267758]

274: ACF35810  
ATP synthase F0 subunit 8 [Homo sapiens]  
gil194267757|gblACF35810.1|[194267757]

275: ACF35809  
cytochrome c oxidase subunit II [Homo sapiens]  
gil194267756|gblACF35809.1|[194267756]

276: ACF35808  
cytochrome c oxidase subunit I [Homo sapiens]  
gil194267755|gblACF35808.1|[194267755]

277: ACF35807  
NADH dehydrogenase subunit 2 [Homo sapiens]  
gil194267754|gblACF35807.1|[194267754]

278: ACF35806  
NADH dehydrogenase subunit 1 [Homo sapiens]  
gil194267753|gblACF35806.1|[194267753]

279: ACF35805  
cytochrome b [Homo sapiens]  
gil194267751|gblACF35805.1|[194267751]

280: ACF35804  
NADH dehydrogenase subunit 6 [Homo sapiens]  
gil194267750|gblACF35804.1|[194267750]

281: ACF35803  
NADH dehydrogenase subunit 5 [Homo sapiens]  
gil194267749|gblACF35803.1|[194267749]

282: ACF35802  
NADH dehydrogenase subunit 4 [Homo sapiens]  
gil194267748|gblACF35802.1|[194267748]

283: ACF35801  
NADH dehydrogenase subunit 4L [Homo sapiens]  
gil194267747|gblACF35801.1|[194267747]

284: ACF35800  
NADH dehydrogenase subunit 3 [Homo sapiens]  
gil194267746|gblACF35800.1|[194267746]

285: ACF35799  
cytochrome c oxidase subunit III [Homo sapiens]  
gil194267745|gblACF35799.1|[194267745]

286: ACF35798  
ATP synthase F0 subunit 6 [Homo sapiens]  
gil194267744|gblACF35798.1|[194267744]

287: ACF35797  
ATP synthase F0 subunit 8 [Homo sapiens]  
gil194267743|gblACF35797.1|[194267743]

288: ACF35796  
cytochrome c oxidase subunit II [Homo sapiens]  
gil194267742|gblACF35796.1|[194267742]

289: ACF35795  
cytochrome c oxidase subunit I [Homo sapiens]  
gil194267741|gblACF35795.1|[194267741]

290: ACF35794  
NADH dehydrogenase subunit 2 [Homo sapiens]  
gil194267740|gblACF35794.1|[194267740]

291: ACF35793  
NADH dehydrogenase subunit 1 [Homo sapiens]  
gil194267739|gblACF35793.1|[194267739]

292: NP\_002275  
keratin 86 [Homo sapiens]

gil14318422|reflNP\_002275.1|[14318422]

293: ACD31678  
cytochrome c oxidase subunit III [Homo sapiens]  
gil187729692|gblACD31678.1|[187729692]

294: ACD31677  
ATPase subunit 6 [Homo sapiens]  
gil187729691|gblACD31677.1|[187729691]

295: ACC97189  
cytochrome c oxidase subunit II [Homo sapiens]  
gil186968864|gblACC97189.1|[186968864]

296: NP\_001073848  
parkin co-regulated gene protein isoform 2  
[Homo sapiens]  
gil122939206|reflNP\_001073848.1|[122939206]

297: NP\_001073847  
parkin co-regulated gene protein isoform 2  
[Homo sapiens]  
gil122939202|reflNP\_001073847.1|[122939202]

298: NP\_689623  
parkin co-regulated gene protein isoform 1  
[Homo sapiens]  
gil122939204|reflNP\_689623.2|[122939204]

## SNPs Database

1: rs41318531

[Homo sapiens]

AACTGGACTCAGGCCTTTTGGCCTCA[A/G]AGAAGCTCACAGTGTGAGAGTATGA

2: rs41352448

[Homo sapiens]

ATGGATGGATGGATGGATGGATGGAT[-/GGAT]GGACAGACAGCTATAGAAATAC AGA

3: rs13447341

[Homo sapiens]

GGAGCTGGTGAAGCGGAAGCGCATCG[A/G]GGCCATCCGCGGCCAGATCCTGTCC

4: rs45484397

[Homo sapiens]

ATTGTGGGTCTGGTGGTTATGGAATG[G/T]TGGTGGTAACAGTGGTGTGATGGAA

5: rs3917220

[Homo sapiens]

CAAGGGACTCTAATCTACCTTGTCT[-/T]TCTGTTCTCTTCAGAACTCCAAGCT

6: rs35706870

[Homo sapiens]

CCAAGGGCAGATGTGCATGGAGGCCA[A/C]GTCATTCCTTCCCATGCTCTCATA

7: rs13447446

[Homo sapiens]

ATCTTTGTTGGAGGGTGAGGGTGGGG[A/C]CAGAGCGGGTGGGGCTGATTGGAAA

8: rs13447445

[Homo sapiens]

GTTGAGACTCTAATATTGAGACTCAT[C/G]GGAAAATCCCACATTTGATAAATCT

9: rs56588968 has merged into rs1800795

[Homo sapiens]

CACTTTTCCCCTAGTTGTGTCTTGC[C/G]ATGCTAAAGGACGTCACATTGCACA

10. AFFY, HGBASE, SNP500CANCER10: rs36215460 has merged into rs1800795

[Homo sapiens]

CACTTTTCCCCTAGTTGTGTCTTGC[C/G]ATGCTAAAGGACGTCACATTGCACA

11. AFFY, HGBASE, SNP500CANCER11: rs17777058 has merged into rs1800795

[Homo sapiens]

CACTTTTCCCCTAGTTGTGTCTTGC[C/G]ATGCTAAAGGACGTCACATTGCACA

12. AFFY, HGBASE, SNP500CANCER12: rs1800795

[Homo sapiens]

CACTTTTCCCCTAGTTGTGTCTTGC[C/G]ATGCTAAAGGACGTCACATTGCACA

13. AFFY, HGBASE, SNP500CANCER13: rs41296860

[Homo sapiens]

AACTGGACTCAGGCCTTTTGGCCTCA[A/G]AGAAGCTCACAGTGTGAGAGT

## OMIM Database

1. \*608427 PARKIN COREGULATED GENE; PACRG  
Gene map locus 6q25-q27
2. #607572 LEPROSY, SUSCEPTIBILITY TO, 2  
Gene map locus 6q25.2-q27
3. \*602544 PARKIN; PARK2  
FRAGILE SITE FRA6E, INCLUDED  
Gene map locus 6q25.2-q27
4. \*601928 KERATIN 86; KRT86  
Gene map locus 12q13
5. \*601772 H2A HISTONE FAMILY, MEMBER X; H2AFX  
Gene map locus 11q23.2-q23.3
6. \*516002 COMPLEX I, SUBUNIT ND3; MTND3
7. #246300 LEPROSY, SUSCEPTIBILITY TO  
LEPROSY, SUSCEPTIBILITY TO, 3, INCLUDED; LPRS3, INCLUDED  
Gene map locus 4q32, 4p14
8. \*124092 INTERLEUKIN 10; IL10  
Gene map locus 1q31-q32
9. #114500 COLORECTAL CANCER; CRC  
Gene map locus 17q24, 17p11.2, 17p13.1, 15q15, 14q32.3, 14q24.3, 11p11.2, 9q32-q33, 1p13.2, 8p22-p21.3, 5q21-q22, 4q32, 3q26.3, 1p35, 2p25, 22q13, 20q13.2-q13.3
10. #114480 BREAST CANCER  
BREAST CANCER, FAMILIAL MALE, INCLUDED  
Gene map locus 17q22-q23, 17q22, 17p13.1, 16p12, 15q15.1, 14q32.3, 13q12.3, 12p12.1, 11q22.3, 11p15.5, 8q11, 5q33.2, 3q26.3, 2q34-q35, 2q33, 22q12.1

## ANNEXURE - III

### Organization of Conferences / Workshops

Organized **International Symposium on Human Genomics and Public Health** along with the **XXXI Annual Conference** of Indian Society of Human Genetics, February 27-March 1, 2006.

Organized **Guha Research Conference (GRC) 2006 at Leh**, Ladakh, J&K as a Co-Coordinator.

Organized **International Symposium** of Environmental Health Sciences in the 21<sup>st</sup> Century along with the **XXVI Annual Conference** of Environmental Mutagenesis Society (EMS) of India, March 2001 & Guest-Edited the Journal volume of JEPTO (Journal of Environmental pathology, Toxicology and Oncogenesis, USA) with selected papers.

**Workshop** on non-radioactive approach to Southern and Northern hybridization through chemiluminescence in 1991-1992.

**Workshop** on cytogenetic and molecular techniques for WHO supported young researchers with AIIMS in 1995-96

### Scientific and Public Lectures (since 2003)

1. Invited Lecture on "**Genomics and Bioinformatics in Complex Human Diseases**" in the 29<sup>th</sup> Annual Conference of Association of Clinical Biochemists of India, 3<sup>rd</sup> to 5<sup>th</sup> February, 2003, Jaipur.
2. Chaired the session on Genomics, Proteomics and Bioinformatics with Dr. D.S.Rao, AIIMS in the 29<sup>th</sup> Annual Conference of Association of Clinical Biochemists of India, 3<sup>rd</sup> to 5<sup>th</sup> February, 2003, Jaipur.
3. Invited Lecture in a Plenary Session on "**An exploratory study of low resolution mapping and prediction of probable susceptibility genes at 17q21-24 region in sporadic breast cancer: an experimental and bioinformatics approach**", XXVIII Annual Conference of the Environmental Mutagenesis Society of India (EMS), February 14-16, 2003, Indian Institute of Chemical Biology (CSIR), Jadavpur, Kolkata-700032.
4. Chaired the Plenary Session on '**Basic and Applied aspects of Environmental Mutagenesis and carcinogenesis**' with Dr. P. Simeonova of USA, XXVIII EMSI Annual Conference and Symposium on Arsenic Contamination in ground water and its health effects, IICB, Kolkata.
5. Presented the viewpoints on "**Cloning and Bioethics**" in the Centre of Law and Governance, JNU 20<sup>th</sup> February, 2003.
6. Delivered a lecture at the Department of Biotechnology, DD University, Gorakhpur on "**Genomic Polymorphism and Diseases**" on 4<sup>th</sup> of March, 2003.

7. Delivered a lecture at the Department of Zoology and Allied Sciences, H.N.Bahuguna University, Srinagar, Garhwal on 8<sup>th</sup> of April, 2003.
8. Delivered Two Lectures on "**Human Genome and Disease**" at the Academic Staff College, April 28<sup>th</sup>, 2003.
9. Delivered an Invited lecture in the 8<sup>th</sup> Iran Genetics Society Meeting at Milaad Congress Centre, Tehran- Iran, 20-22<sup>nd</sup> May, 2003.
10. Delivered Two Lectures in the Academic Staff College, 18 -19<sup>th</sup> July, 2003.
11. Delivered a Plenary Lecture on, '**Mapping of the gene(s) in sporadic breast cancer characterized for BRCA2 genetic background**' and Chaired Two Scientific Sessions in the "**National Seminar on Interdisciplinary Approaches in Zoological Research**" September 29<sup>th</sup> –October 1, 2003, University of Kashmir, Srinagar (J&K).
12. Delivered Four Lectures in the Academic Staff College, GND University, Amritsar, 17<sup>th</sup> and 18<sup>th</sup> of October, 2003.
13. Delivered a Lecture to the M.Sc. students of the National Centre for Human Genomic Studies and Research, Panjab University, Chandigarh, 29<sup>th</sup> of October, 2003.
14. Delivered Two Lectures in the Academic Staff College, Gurukul Kagri University, Haridwar, 29<sup>th</sup> of November, 2003.
15. Delivered Two Invited Lectures on "**Human Genome: History and Reality and Human Genome**": Social and Ethical Issues in the Administrative Academy, Gurgaon ( Part of series of lectures on 'Fostering a temper and using scientific and technical inputs for accelerating the pace of development with special emphasis on biotechnology and prototype development'), December 9<sup>th</sup>, 2003.
16. Delivered an Invited Lecture in EMERGE TECH 2003, Conclave on **Emerging Technologies**, organized by Confederation of Indian Industry (CII), Northern Region, 11<sup>th</sup> December, 2003, Hotel Taj Palace, New Delhi.
17. Delivered an Invited Talk to the graduate students of Zoology and other science disciplines on the Annual Function of the Zoological Society of the Dshbandhu College, New Delhi on 17<sup>th</sup> December, 2003.
18. Delivered three lectures in the 9<sup>th</sup> Refresher Course in Life Sciences, Academic Staff College, J.N.U., New Delhi, on 19<sup>th</sup> of January, 2004.
19. Delivered a Plenary Lecture on "**Genomics to System Biology: A Paradigm shift**" in the 7<sup>th</sup> Punjab Science congress, Guru Nanak Dev University, Amritsar on February 6<sup>th</sup> 2004.
20. Delivered an Invited Lecture in the Amity International Centre on 20<sup>th</sup> February 2004
21. Delivered an Invited talk at the Department of Biophysics, Molecular Biology & Genetics, University College of Science, University of Calcutta on 3<sup>rd</sup> April 2004.
22. Delivered an Planetary lecture on "**Mapping the gene(s) ---- genetic background**" in the International Conference on Human Genome Update, Institute of genetics & Hospital for Genetic Disorders, Osmania University, Hyderabad on 30<sup>th</sup> August 2004.
23. Delivered an Invited Lecture in the International workshop on "**Application of Advance Molecular Methods for Diagnosis of Human Genetics Disease**" from 13<sup>th</sup> – 17<sup>th</sup> September 2004 at National Research Center for Genetic Engineering & Biotechnology, Iran.

24. Delivered an Invited Special Lecture on "***Genotype Phenotype correlations in system biology paradigm***" in the 2-Day Seminar "Genetics-The expanding Horizon" Department of Genetics, South Campus, University of Delhi on 13<sup>th</sup> October 2004.
25. Delivered an Invited lecture on "***Anatomy of Human Chromosomes in Relation to structural and functional genomics***" in the Biosparks 2004, Desh Bandhu College on the theme "Science Overtakes fiction" on 4<sup>th</sup> November, 2004.
26. Delivered an Inaugural lecture on "***Human Genome Perspectives and its Implications***" to the participants of 50<sup>th</sup> Orientation Course on 22<sup>nd</sup> November, 2004.
27. Delivered an Invited Talk on "***Human Genomic***" to the graduate students of Zoology and other science disciplines on the Annual Festival Chrysalis-2004 of the Maitreyi College, New Delhi on 30<sup>th</sup> November, 2004.
28. Delivered lecture on "***Genotype Phenotype relations and mapping of unknown genes***" in the 10<sup>th</sup> Refresher Course in Life Sciences, Academic Staff College, J.N.U., New Delhi, on 28<sup>th</sup> of December, 2004.
29. Delivered an Inaugural Lecture in Academic Staff College, JNU New Delhi.
30. Delivered lecture in the 9<sup>th</sup> Refresher Course in Life Sciences, School of Life Sciences, JNU, New Delhi.
31. Delivered a Planetary Lecture on, "***Perspective of Molecular Medicine in the Background of Human Genome Information - A Case Study of Cancer***" in the session Molecular Medicine of "Med Biotech 2005", Department of Biotechnology, Punjabi University, on February 2<sup>nd</sup> 2005, Patiala.
32. Delivered an Invited Lecture on "***Study of a simple and a complex genetic disorder in humans – exploring unknowns***" at Indian Institute of Sciences, Bangalore on 10<sup>th</sup> February 2005.
33. Delivered an Invited Lecture in Academic Staff College, Department of Zoology, University of Pune, Pune 11<sup>th</sup> February, 2005.
34. Delivered an Invited Lecture in the Department of Zoology, Banaras Hindu University, Varanasi on 15<sup>th</sup> February, 2005.
35. Delivered an Invited Lecture on "***SNPs and microsatellite variations in hepatitis and cancer – future pharmacogenomic targets***" in the Workshop on "Drug Discovery and Development in New Millennium (D3NM-2) Interfacing with *in silico*, cell based and Pharmacological Toxilogical Experimentation" at National Institute of Pharmaceutical Education and Research (Niper) on March 1<sup>st</sup> 2005.
36. Delivered an Invited Lecture on "***Genetic Heterogeneity in Susceptibility to Leprosy***" in the Asian Regional Workshop on "Emerging Infectious Diseases" at India Habitat Centre, New Delhi on 11<sup>th</sup> March, 2005.
37. Delivered an Invited Lecture on "***Understanding Disease Susceptibilities In The Background Of Present Day Perspectives Of Human Genome Information Our Experience***" in the "APOGEE2K5" at BITS, Pilani, Rajasthan, on 17<sup>th</sup> March, 2005.
38. Delivered an Invited Lecture on "***Challenges of tracking new genes and establishing genotype-phenotype correlations in the background of the human genome information our experience***" in the "Genomics 2005: Challenges and opportunities" at National Genome for Plant Genome Research, New Delhi, on 2<sup>nd</sup> May, 2005.

39. Delivered invited lecture at the Academic Staff College, JNU for the Refresher course in Biotechnology on, "***Human Genomics and Public Health***" 14<sup>th</sup> September, 2005.
40. Chief Guest at the Zoological Society of Ramjas College and deliver the Invited Lecture on, "***Human Genomic Variation and Public Health***" 23<sup>rd</sup> September, 2005.
41. Delivered invited lecture on "***Human Genomics variations in simple and Complex diseases- A Paradigm shift in relation to Public Health***" at Department of Zoology, Allahabad University on 20th October, 2005.
42. Delivered invited lecture on "***Human Genomics in Service of Mankind – A Future Prospective***" at Department of Botany, Raghunath College, Meerut on 18th November, 2005.
43. Delivered invited lecture on "***A Putative Tumor Suppressor in 17q with Possible Association with Sporadic Breast Cancer***" at the Seminar on Molecular Biology of Stress Response and its Application, BARC, Mumbai on 20th December, 2005.
44. Delivered invited inaugural lecture at Academic Staff College, Jawaharlal Nehru University, New Delhi on 02nd January, 2006.
45. Delivered invited lecture on "***Structural to functional Genomics- Bloom Syndrome as a model***" at Academic Staff College, Jawaharlal Nehru University, New Delhi on 3<sup>rd</sup> January, 2006.
46. Delivered invited plenary lecture on "***A Putative tumor Suppressor in 17q with sporadic breast cancer***" at International Symposium on Frontiers in Genetics and Biotechnology - Retrospect and Prospect, Osmania University, Hyderabad on 09th January, 2006.
47. Delivered invited lecture on "***Mapping of new tumor suppressor genes using LOH studies***" at Sri Satya Sai Institute of Higher Learning, Prasanthinilayam, AP on 28th January 2006.
48. Delivered invited inaugural lecture on "***Human Genomic variation and Disease***" at Hansraj College, University of Delhi for the SHRISHTI CHETNA the Annual Festival of Biological and Zoological Society on 07th February, 2006.
49. Delivered invited lecture on "***Present and future of Human Genomics***" at 3rd hands on training workshop on methods in gene analysis in Centre for Genomics, School of Studies in Zoology, Giwaji University, Gwalior on 11th March, 2006.
50. Delivered invited lecture on "***Perspective and understanding the role of Human Genome***" at National Symposium on Recent Trends in Modern Biology, Department of Zoology, University of Pune on 16th March, 2006.
51. Delivered invited lecture at Paravara Institute of Medical Sciences on 17th March, 2006.
52. Delivered invited lecture on "***Cancer Genomics in Post genomic Era***" at SGPGI, Lucknow on 20th May, 2006.

53. Delivered invited lecture on "***Human Genome Variations and determination of Molecular Signatures in Human Diseases***" at Summer Research Training Programm, SLS, JNU on 22nd May 2006.
54. Delivered Invited Lecture on "***How and why are we different***" at Jiwaji University, Gwalior, on 2<sup>nd</sup> June, 2006.
55. Delivered Invited Lecture on "***Human Genome Studies in the Post Genomic Era***" at Zoology Department, University of Kashmir, on 5th June, 2006.
56. Delivered Invited inaugural lecture on "***Tracking new genes and establishing genotype-phenotype correlations in the background of Human Genome information- our experience in Breast Cancer***" at XXXII Annual Day Conference of the Society of Young Scientists, AIIMS, New Delhi on 29th July 2006.
57. Delivered Invited Lecture on "***Genomics to system Biology Information for life and a shift in Biological paradigm***" at Academic Staff College, on 9th August 2006.
58. Delivered Invited Lecture on "***Historical Perspectives in Human Genomics and future vision***" at School of Zoological Services, Jiwaji University, Gwalior, on 10<sup>th</sup> August 2006.
59. Delivered Invited Lecture on "***Recent Trends in Genomics***" and chaired a session at Annual Conference of International Medical Academy, Dental College, Lahore, Pakistan on 3<sup>rd</sup> November, 2006.
60. Delivered Invited Lecture on "***Human Genome perspectives in Biotechnology***" MBA Biosciences students at Pravara Institute of Medical Sciences (Deemed University) Loni Maharashtra on 29<sup>th</sup> November, 2006.
61. Delivered Invited Lecture on "***Tracking new tumor suppressor genes-strategies and results in sporadic form of breast cancer***" at 'National Seminar on New Trends in Life Sciences' Department of Zoology, Panjab University, Chandigarh on 11<sup>th</sup> December, 2006.
62. Delivered Invited Lecture on "***How are we different and what methodologies do we adopt to track new genes in the perspective of developments in Human Genomics***",(three lectures) on refresher course for college teachers, Department of Zoology, Jammu University, Jammu on 19th and 20th December, 2006.
63. Delivered Invited Lecture on "***Bioethical issues in human genome research – in the perspective of preimplantation genetic diagnosis***", in the Seminar on National Consultation on new reproductive technologies and their implications on women, Jawaharlal Nehru University on 3<sup>rd</sup> - 5<sup>th</sup> January 2007.
64. Delivered Invited Lecture on "***Beyond Human Genome***", in the DBT sponsored refresher course in Biotechnology at the School of Biotechnology, Jawaharlal Nehru University on 8<sup>th</sup> January 2007.
65. Delivered Invited Lecture on "***Use of DNA Fingerprinting in detection of Homicide Crimes***", in the Investigation of Homocide Cases Including Custodial Death and Capsule on Human Rights at the Central Bureau of Investigation Academy, Government of India, Kamla Nehru Nagar, Hapur Road, Ghaziabad, on 17th January 2007.

66. Delivered Two Invited Lectures on “**Genomic Variation and its utility**”, in the 12th Refresher Course in life Sciences at Academic Staff College, Jawaharlal Nehru University on 18th January 2007.
67. Chaired a session on “Evolutionary Biology” and delivered an invited Lecture on “**Tracking new chromosomal regions and assessing the expression of some of the sensors, adaptors and effectors in sporadic breast cancer**”, in the 30th All India Cell Biology Conference and Symposium on Molecules to compartments: Cross-Talks and Networks, on 2nd and 4th February 2007, respectively.
68. Delivered an invited Lecture on “**How complex are infectious disease – Leprosy as a model?**” and chaired a session in the XXXII Annual Conference of Indian Society of Human Genetics and international Symposium on Deconstructing Human Diseases: The Genomic Advantage, on 14th and 16th February 2007 respectively.
69. Delivered an invited Lecture on “**Tracking chromosomal regions to hunt for genes and to assay the expression of DNA damage response genes in cancer**” at Sri Sathya Sai University, Vidyagiri Complex, Prasanthinilayam, AP on 10th March 2007.
70. Delivered an invited Lecture on “**Beyond Human Genomics: Genomic variations and environment response**” at CORD and Environmental Sciences, University of Kashmir, Srinagar on 14th May, 2007.
71. Delivered an invited Lecture on “**Physical mapping and candidate gene approach to understand the sporadic breast tumor heterogeneity**” at DBT organized International Symposium on Trends in Human Genetics, Tohali Sands, Puri, Orissa on August 20-22, 2007
72. Delivered an invited Lecture on “**Physical mapping and candidate gene approach to understand the sporadic breast tumor heterogeneity**” at DBT organized International Symposium on Trends in Human Genetics, Tohali Sands, Puri, Orissa on August 20-22, 2007.
73. Delivered a valedictory address on “**Global explorations of human genome and its implications – lessons to be learned**” to the participants of the 9th Refresher Course in Biotechnology, Academic Staff College, JNU on August 24, 2007
74. Delivered an invited lecture on “**Relevance of New Biology to Medical Sciences**” at King George Medical College, Lucknow on October 16, 2007
75. Delivered a keynote address in the “**National Seminar on Genome Analysis perspective in the post-genomic era and its relevance to society**” at School of Human Genome Research and Genetic Disorders and School of Biotechnology, Mahatma Gandhi National Institute of Research and Social Action (MGNIRSA), Hyderabad on October 26, 2007.
76. Delivered a Plenary Lecture on “**Genomic variance and their relevance in the post-genomic era**” in the National Seminar on Genome Analysis perspective

in the post-genomic era and its relevance to society at School of Human Genome Research and Genetic Disorders and School of Biotechnology, Mahatma Gandhi National Institute of Research and Social Action (MGNIRSA), Hyderabad on October 26, 2007.

77. Chaired session I on “**Genome Science/Comparative Genomics**” in the National Seminar on Genome Analysis perspective in the post-genomic era and its relevance to society at School of Human Genome Research and Genetic Disorders and School of Biotechnology, Mahatma Gandhi National Institute of Research and Social Action (MGNIRSA), Hyderabad on October 26, 2007.
78. Delivered an Invited Lecture on “**Human Genomic Variations and environment response**” in the National Symposium on biomarkers of Environmental Problems at Department of zoology, C.C.S. University, Meerut on October 28, 2007.
79. Delivered an Invited Lecture on “**Mapping and Candidate gene approach to understand the sporadic breast tumor heterogeneity**” in the 1st International Congress on Health Genomics and Biotechnology, Tehran, Iran on November 24-26, 2007.
80. Delivered an Invited Lecture on “**Role of Mitochondria in the Background of Implicated Nuclear Candidate Genes in the Type2 Diabetes Mellitus in India**” in the Scientific Session on “Dissecting the Role of Genes and Environment in Complex Diseases”, at CCMB, Hyderabad December 6, 2007.
81. Delivered an Invited Lecture on “**Understanding Complex Diseases In The Post- Human Genome Era**” in the 12th Foundation day Symposium of Biotechnology Society of India, Molecular Medicine, The emerging frontiers, PGIMS, Rohtak on 9<sup>th</sup> January 2008.
82. Delivered Invited Lectures on “**Genes And Genetics**”, in the 12th Orientation Course in life Sciences at Academic Staff College, Jawaharlal Nehru University on 14<sup>th</sup> January 2008.
83. Delivered an Invited Lecture on “**Genomic Variations And Their Interaction-Assessment Of Risk To Complex Diseases**” in the Biotech Fest 2008 in the Department of Biotechnology, Panjab University, Chandigarh on January 17, 2008.
84. Delivered an Invited Lecture on “**Dissecting Complex Diseases in the Post-Human Genome era; Our Experience**” in the XXXIII Annual Conference of the Indian Society of Human Genetics (ISHG) and International Symposium on Genetics Revisited: The Genomics and Proteomics Advantage at Department of Human Genetics, Andhra University, Visakhapatnam on February 11-13, 2008.

85. Chaired Session-II in the XXXIII Annual Conference of the Indian Society of Human Genetics (ISHG) and International Symposium on Genetics Revisited: The Genomics and Proteomics Advantage at Department of Human Genetics, Andhra University, Visakhapatnam on February 11, 2008.
86. Delivered an Invited Lecture on “*Dissecting Complex Diseases in the Post-Human Genome era; Our Experience*” in the XXXIII Annual Conference of the Indian Society of Human Genetics (ISHG) and International Symposium on Genetics Revisited: The Genomics and Proteomics Advantage at Department of Human Genetics, Andhra University, Visakhapatnam on February 11-13, 2008.
87. Delivered an Invited Lecture on “*Genotype Mosaic status of the Genes in the Pathway Biology and their Interaction to understand the Complex disease Phenotypes*” in the OMICS, In The 21st Century, Fifth International Symposium on Genetics, Health and Disease, at Guru Nanak Dev University, Amritsar on February 19, 2008.
88. Chaired Session-7 on “*Medical Genetics in Omics era*” in the OMICS, In The 21<sup>st</sup> Century, Fifth International Symposium on Genetics, Health and Disease, at Guru Nanak Dev University, Amritsar on February 19, 2008.
89. Delivered a Keynote address on “*Dissecting Complex Diseases in Post Genomic Era*” in the inaugural session of the workshop on “Genotyping Techniques in Clinical Diagnostics” at National Institute for Research in Reproductive Health (NIRRH) Mumbai on 28<sup>th</sup> April, 2008.
90. Delivered an Invited Lecture on “*Humans as genotype mosaics show differential interaction of the pathway biology genes to explain complex disease phenotypes*” at School of life science, University of Hyderabad, Hyderabad on August 23, 2008.
91. Delivered a Keynote Lecture on “*Gene-gene variation interaction in post genome wide studies to understand complex diseases*” in the Technical Session -VI (Genomics & Proteomics) of the International Conference: Emerging trends in Biological Sciences at School of Biotechnology, KIIT University, Bhubaneswar, Orissa on October 25, 2008.
92. Delivered an Inaugural Lecture on “*Recent Advances in Genomics and Proteomics*” in the Continuing Education Programme on The Recent Advances in Genomics and Proteomics Research at Defence Institute of Physiology and Allied Sciences (DIPAS), DRDO, Ministry of Defence, Lucknow Road, Delhi –110054 on November 10, 2008.
93. Delivered an Invited Lecture on “*Whole mitochondria genome studies in north Indian population diversity and complex diseases*” in the 2<sup>nd</sup> Indo-US

Workshop on Mitochondrial Research and Medicine at Manipal Life Sciences Centre, Manipal University, Manipal on November 13, 2008.

94. Delivered two Invited Lecture on “*Genes and Diseases*” and “*Human Disease Models to Understand Susceptibility to Complex Diseases*” in the 14<sup>th</sup> Refresher Course in Life Sciences at Academic Staff College, Jawaharlal Nehru University, New Delhi on January 16 and 20, 2009.
95. Chief Guest in the Refresher Course in Life Sciences, Centre for Professional Development in Higher Education and delivered an Inaugural Lecture on “*Detection of functional variations in Human Genome – A key to understand disease susceptibilities*” in the Refresher Course in Life Sciences, Centre for Professional Development in Higher Education at Department of Zoology, University of Delhi on January 29, 2009.
96. Setting the theme of the Inaugural Session of the International Conference on Genetic and Molecular Diagnosis in Modern Medicine “*Detection and understanding of disease biology – crucial to therapeutic intervention and prevention*” at Kamineni Education Society, 103, Kanchanjunga, King Koti Road, Abdis, Hyderabad – 500001 on 13<sup>th</sup> February, 2009.
97. Chaired the *Session III on Clinical Genetic and Epigenetics Aspects of Cancer*, of the International Conference on Genetic and Molecular Diagnosis in Modern Medicine – (GMDMM-09) at Kamineni Education Society, 103, Kanchanjunga, King Koti Road, Abdis, Hyderabad – 500001 on 13<sup>th</sup> February, 2009.
98. Chaired a Session in the International Symposium on ‘Frontiers in Molecular Medicine’ at Jawaharlal Nehru University, New Delhi on 14<sup>th</sup> February 2009.
99. Delivered an Invited Lecture on “Gene variation interaction and real time expression studies of the candidate genes associated with chromatin, DNA damage response, apoptosis, immune response and mitochondria in Sporadic Breast Cancer” in the 28<sup>th</sup> Annual Convention of Indian Association for Cancer Research & International Symposium on Emerging Challenges and Approaches in Cancer Biology at National Science Seminar Complex, Indian Institute of Science, Bangalore on 21<sup>st</sup> – 24<sup>th</sup> February, 2009.
100. Chaired *Session VIII* (Shri Sitaram Joglekar / Smt. Mangala Bamane Award) of the 28<sup>th</sup> Annual Convention of Indian Association for Cancer Research & International Symposium on Emerging Challenges and Approaches in Cancer Biology at National Science Seminar Complex, Indian Institute of Science, Bangalore on 21<sup>st</sup> – 24<sup>th</sup> February, 2009.
101. Delivered an Invited Lecture on “How we are different?” in the Program for JNU Science Festival 2009 on February 28, 2009.
102. Delivered an Invited Lecture on “Interaction and real time expression of nuclear candidate genes and mitochondrial genome studies in complex genetic diseases” in the ISHG 2009 International Symposium on ‘Ethics, Culture and population Genomics’ and 34<sup>th</sup> Annual Conference of the Indian Society of Human Genetics from 17<sup>th</sup> – 20<sup>th</sup> March, 2009.
103. Delivered an Invited Lecture on “Bioethical Issues in human genome research – In the perspective of preimplantation genetic diagnosis (PIGD)” in the ISHG 2009 International Symposium on ‘Ethics, Culture and population Genomics’

and 34<sup>th</sup> Annual Conference of the Indian Society of Human Genetics from 17<sup>th</sup> – 20<sup>th</sup> March, 2009.

104. Delivered an Invited Lecture on “Host Genetic Susceptibility to Mycobacterial Diseases – Leprosy as a model” in the National Symposium on ‘Biotechnology in the post genomic era’ at Department of Biochemical Technology, Sri Venkateswara College, University of Delhi on 09<sup>th</sup> April, 2009.
105. Delivered an Invited Lecture on “Post-genomic advancements and genomic medicine” in the National Seminar on ‘Translational Health Research: Pathways to Discovery’ at CSM medical University, Lucknow, U.P. on 28<sup>th</sup> April, 2009.

## **Administrative / Academic Experience**

1. Incharge - Genetics Unit, Anatomy Department, Institute of Medical Sciences, Banaras Hindu University, Varanasi, 1980-1989
2. Coordinator- Bioinformatics Centre, Jawaharlal Nehru University, New Delhi, 1997-1998
3. Coordinator- National Centre of Applied Human Genetics, School of Life Sciences, JNU, New Delhi (2002- onwards)
4. Dean-School of Life Sciences, Jawaharlal Nehru University, New Delhi (2004-2006)
5. Member Academic Council, Pondicherry University, Pravara Rural University (Previously known as Pravara Institute of Medical Sciences), Deemed University, Loni, Ahmednagar, Maharashtra and (in the past) Islamic University of Science and Technology (Awantipora, Srinagar).
6. Member Executive Council, Pondicherry University, Pondicherry & Central Univ. Jharkhand.
7. Served as Member X<sup>th</sup> Plan Committee of UGC for different Universities and XI Plan committee for UGC and DBT.
8. UGC-Expert Committee Member for University with Potential for Excellence- and for Centre of Advanced Studies for different Universities
9. Member Sub-Committee on “Promotion of Science Education in Universities” and “Strengthening of IUCs”, constituted by UGC at the behest of HRD-Ministry, 2003.
10. UGC- Committee Member to “Formulate the X<sup>th</sup> Plan Profile of Higher Education in India”, May 2001.
11. Served as Member of the UGC Committee for evaluating the Deemed University status to be given to TIFR, Mumbai/NCBS, Bangalore and for evaluation of Pravara Rural University.
12. Member Sub-Committee National Institute of Educational Planning and Administration (NIEPA)-on Higher Education System, 2001; also for Post retirement service.
13. Expert Committee Member to see the feasibility to establish Human Genomics Centre in the Chandigarh University, Chandigarh.
14. Member UGC-Committee –Absorption of Migrant Teachers of Kashmir University, 2000.

15. Expert Committee member for selecting teachers for travel grant, major research projects, seminars and symposia, research awards, National Lecturer, etc.
16. Expert Member-Advisory Committee of SAP (DRS, DSA etc) –UGC for different Universities.
17. Expert Member on Faculty Boards, Departmental Boards and Past and present Academic Committee of different universities.
18. Member of different institutions outside JNU: National Institute of Immunology, New Delhi, Raman Research Institute, Bangalore (in the past), Military College of Engineering, Pune (in the past), IMMTECH, Chandigarh, CDRI, Lucknow, ICGEB, New Delhi (in the past).
19. Expert Member-Advisory Committee of SAP (DRS, DSA etc) –UGC at different Universities, Calcutta University, Gwalior University, Indian Institute of Sciences, Bangalore, Madras University, Anna University, Chennai, University of Kashmir, Kashmir, University of Delhi, Delhi, Banaras Hindu University, Varanasi, Sri Satya Sai Institute of Higher Learning, Puttaparthi, Guru Nanak Dev University, Amritsar.
20. Expert Member to review DSA programmes in different Universities.
21. Member of different institutions outside JNU: National Institute of Immunology, New Delhi, Raman Research Institute, Bangalore (in the past), Military College of Engineering, Pune (in the past), IMMTECH, Chandigarh, CDRI, Lucknow, ICGEB, New Delhi (in the past).
22. Within JNU (in the past): Member Court, Jawaharlal Nehru University, Member Executive Council, Jawaharlal Nehru University, Member Academic Council, Jawaharlal Nehru University, Member Special Committee of School of Computer and System Sciences, School of Environmental Sciences, Member Board of Studies of Centre for Studies in Science Policy, School of Social Sciences, Zakir Hussain Centre for Educational Studies, School of Social Sciences.
23. Within JNU (Currently): Chairman, Ethical Committee (IERB, JNU), Chairman, Monitoring Committee, Member Court, JNU, Member Academic Council, JNU.