

## Novel human pathological mutations

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**Gene symbol: HEXA**

**Disease: Tay-Sachs disease**

**Ephrem Chin, L. Bean, B. Coffee, M.R. Hegde**

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*Input for Missense/Nonsense Mutations (single base-pair substitutions)*

Accession	Codon number	Nucleotide substitution	Amino acid substitution
HM080090	497	TAT-TGT	Tyr-Cys

**Gene symbol: SLC3A1**

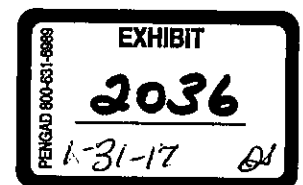
**Disease: Cystinuria**

**Thomas Eggermann**

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*Input for Missense/Nonsense Mutations (single base-pair substitutions)*

Accession	Codon number	Nucleotide substitution	Amino acid substitution
HM080091	397	TAT-TGT	Tyr-Cys



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**Gene symbol: SLC3A1****Disease: Cystinuria****Thomas Eggermann**

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*Input for Missense/Nonsense Mutations (single base-pair substitutions)*

Accession	Codon number	Nucleotide substitution	Amino acid substitution
HM080092	584	aAGA-TGA	Arg-Term

**Gene symbol: SLC7A9****Disease: Cystinuria****Thomas Eggermann**

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*Input for small deletions (<21 bp)*

Accession	Deletion	Codon number/location
HD080027	CCAAGGA^AACacAAAGAATTTT	203

**Gene symbol: ABCA4****Disease: Macular dystrophy****Jana Aguirre-Lamban, R. Riveiro-Alvarez, D. Cantalapiedra, A. Avila-Fernandez, E. Vallespin,**

**C. Villaverde-Montero, B. Gomez-Dominguez, C.L. Auz-Alexandre, M.J. Trujillo-Tiebas, C. Ayuso**

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*Input for Missense/Nonsense Mutations (single base-pair substitutions)*

Accession	Codon number	Nucleotide substitution	Amino acid substitution
HM080093	187	CGT-CAT	Arg-His

**Gene symbol: UBE3A****Disease: Angelman Syndrome**

**Evmorfia Tzagkaraki, Sofocleous Christalena, Fryssira Helen, Dinopoulos Argyris, Mavrou Ariadni, Kanavakis Emmanuel**

Medical Genetics, Athens University, Medical School, Thivon & Livadias, 11527, Athens, Greece, Tel.: 00302107467462, Fax: 00302107795553, E-mail: csofokl@med.uoa.gr

*Input for small insertions (<21 bp)*

Accession	Insertion	Codon number/location
HI080014	GCTGAG^GCATgTGGTACAGAG	139

**Comments:** The mutation was detected by ECMA (Enzymatic Cleavage Mismatch Analysis) and characterized by direct sequencing (performed twice). The proband is a 27 months boy with microcephaly and presents a typical for Angelman EEG. Mutation analysis for both parents revealed normal sequences. Sequencing results available upon request.

**Gene symbol: JAG1****Disease: Allagille syndrome****Jay Ellison**

Medical Genetics, Mayo Clinic, 200 First St SW, 55905, Rochester, USA, Tel.: 507-284-8208, Fax: 507-284-1067, E-mail: ellison.jay@mayo.edu

*Input for small insertions (<21 bp)*

Accession	Insertion	Codon number/location
HI080015	TCCTCCAG_I16E17_GT^GACAGTCAGT	706; c.2115dupT; p.Asp706Stop

**Comments:** cacgt(T)gaca T is the inserted base.

**Gene symbol: COL4A5****Disease: Alport syndrome****Jay Ellison**

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*Input for small deletions (<21 bp)*

Accession	Deletion	Codon number/location
HD080028	CITACTG^GCCctGAGTCTTTGG	17

**Comments:** Female with asymptomatic hematuria and proteinuria. c.49\_50delCT/p.Leu17GlufsX22.

**Gene symbol: F9****Disease: Haemophilia B****Gulzar Niazi, Zeeshan Shaukat, Khalid Masood, Rashid Hussain**Medical Genetics, Centre of Excellence in Molecular Biology, West canal bank road, 87, 57300, Lahore, Pakistan, Tel.: 92425293142, Fax: 92425293149, E-mail: [niazi@cemb.edu.pk](mailto:niazi@cemb.edu.pk)*Input for small insertions (<21 bp)*

Accession	Insertion	Codon number/location
HI080016	GTGGTT <sup>^</sup> TGCTcctgctCCTGTACTGA	109

**Comments:** Novel insertion in Pakistani patient.**Gene symbol: F8****Disease: Haemophilia A****Gulzar Niazi, Zeeshan Shaukat, Khalid Masood, Rashid Hussain**Medical Genetics, Centre of Excellence in Molecular Biology, West canal bank road, 87, 57300, Lahore, Pakistan, Tel.: 92425293142, Fax: 92425293149, E-mail: [niazi@cemb.edu.pk](mailto:niazi@cemb.edu.pk)*Input for small deletions (<21 bp)*

Accession	Deletion	Codon number/location
HD080029	GCTCAA <sup>^</sup> ACACICTTGATGGAC	298

**Comments:** Novel deletion in a Pakistani patient.**Gene symbol: RHD****Disease: Rhesus negative blood group****Janet Carvalho Pereira, N.P. Martins, M.L. Ribeiro**Hematologia, Centro Hospitalar Coimbra, EPE, Av. Bissaya Barreto, S/N, 3000-076, Coimbra, Portugal, Tel.: +351239480370, Fax: +351239717216, E-mail: [uhm@chc.min-saude.pt](mailto:uhm@chc.min-saude.pt)*Input for complex rearrangements*

Accession	Description
HP080001	Hybrid with ex. 4-9 RHCE

**Comments:** Haplotype—cdE.

**Gene symbol: ALAS2****Disease: Sideroblastic anaemia****Janet Carvalho Pereira, J. Barbot, M.L. Ribeiro**

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*Input for Missense/Nonsense Mutations (single base-pair substitutions)*

Accession	Codon number	Nucleotide substitution	Amino acid substitution
HM080094	503	GCC-GTC	Ala-Val

**Comments:** Mutation found in the propositus and his mother.**Gene symbol: SRY****Disease: XY sex reversal****Celia Ravel, B. Lakhal, H. Elghezal, R. Braham, A. Saad, A. Bashamboo, J.P. Siffroi, K. McElreavey, S. Christin-Maitre**

EA1533 Faculté de médecine Pierre et Marie Curie, Rue de chaligny, 27, 75012, Paris, France, E-mail: cravel@pasteur.fr

*Input for regulatory mutations*

Accession	Nucleotide substitution	Location relative to
HR080003	TGGTTGGGCGGGGTTGAGGGGGTGTGAGG(G-C) CGGAGAAATGCAAGTTTCATTACAAAAGTT	Initiator methionine

**Comments:** A 34 year-old phenotypically normal female was referred to our attention for primary amenorrhea. The vagina was present but reduced in length. The weight was 69 kg; the height 1 m 69. FSH, LH, estradiol, prolactin and testosterone levels reached 110 mUI/ml, 24.3 mUI/ml, 12 pg/ml, 12.6 ng/ml and 0.3 ng/ml, respectively. Karyotype was 46,XY. At ultrasound examination, gonads could not be identified. However, a small uterus was present. The two kidneys were normal. SRY mutational analysis revealed a single base-pair substitution. c. -130G > C located in a highly conserved Sp1A motif that has previously been shown experimentally to be involved in regulation of SRY expression. tggtgagg(g-c)cgagaaaa.

**Gene symbol: APC****Disease: Adenomatous polyposis coli****L.A. Mavrogiannis, C.E. Chu, R.S. Charlton**

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*Input for splicing mutations (single base-pair substitution)*

Accession	Intron designation, number or letter	Donor/Acceptor	Relative location	Nucleotide substitution
HS080016	14	Donor	+1	G-C

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