

Title (en)  
COMPLETE MITOCHONDRIAL GENOME SEQUENCES AS A DIAGNOSTIC TOOL FOR THE HEALTH SCIENCES

Title (de)  
VOLLSTÄNDIGE MITOCHONDRIALE GENOMSEQUENZEN ALS DIAGNOSTISCHES TOOL FÜR DIE MEDIZINISCHEN WISSENSCHAFTEN

Title (fr)  
SEQUENCES COMPLETES DU GENOME MITOCHONDRIAL UTILISEES COMME OUTIL DE DIAGNOSTIC POUR DES SCIENCES DE LA SANTE

Publication  
**EP 1694695 A4 20071031 (EN)**

Application  
**EP 04802299 A 20041213**

Priority

- CA 2004002124 W 20041213
- US 73237403 A 20031211

Abstract (en)  
[origin: WO2005056573A1] The examination of mutations in the mitochondrial genome is used as a diagnostic system for diseases such as prostate cancer, and non melanoma skin cancer. Characteristic mutations and rearrangements including, point mutations (transitions, transversions), deletions, inversions, duplications, recombinations, insertions or combinations thereof in the mitochondrial genome are used as early indicators of prostate cancer, and non melanoma skin cancer. Moreover, the 4977 bp, or "common deletion" as well as other associated mutations and/or deletions are used as a measure of aging.

IPC 8 full level  
**C07H 21/04** (2006.01); **C12Q 1/68** (2006.01); **G16B 20/20** (2019.01); **G16B 20/40** (2019.01)

CPC (source: EP US)  
**C12Q 1/6883** (2013.01 - EP); **C12Q 1/6886** (2013.01 - EP); **G16B 20/00** (2019.01 - EP); **G16B 20/20** (2019.01 - EP US); **G16B 20/40** (2019.01 - EP US); **C12Q 2600/112** (2013.01 - EP); **C12Q 2600/156** (2013.01 - EP); **C12Q 2600/158** (2013.01 - EP)

Citation (search report)

- [X] WO 03078661 A1 20030925 - GYLLENSTEN ULF [SE], et al
- [X] DURHAM S E ET AL: "Mitochondrial DNA damage in non-melanoma skin cancer.", BRITISH JOURNAL OF CANCER 13 JAN 2003, vol. 88, no. 1, 13 January 2003 (2003-01-13), pages 90 - 95, XP002450141, ISSN: 0007-0920
- [A] KOGELNIK ANDREAS M ET AL: "MITOMAP: a human mitochondrial genome database-1998 update", NUCLEIC ACIDS RESEARCH, OXFORD UNIVERSITY PRESS, SURREY, GB, vol. 26, no. 1, 1998, pages 112 - 115, XP002966479, ISSN: 0305-1048
- [T] BANDELT HANS-JÜRGEN ET AL: "What is a 'novel' mtDNA mutation--and does 'novelty' really matter?", JOURNAL OF HUMAN GENETICS 2006, vol. 51, no. 12, 2006, pages 1073 - 1082, XP002450142, ISSN: 1434-5161
- See references of WO 2005056573A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2005056573 A1 20050623**; CA 2550135 A1 20050623; EP 1694695 A1 20060830; EP 1694695 A4 20071031

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**CA 2004002124 W 20041213**; CA 2550135 A 20041213; EP 04802299 A 20041213