

Complete List of Scientific Publications – Prof. Dr. Manfred Kayser

Original Articles in Peer-Reviewed Scientific Journals:

- (1) **Kayser M**, Nürnberg P, Bercovitch F, Nagy M, and Roewer L (1995) Increased microsatellite variability in *Macaca mulatta* compared to human due to a large scale deletion / insertion event during primate evolution. *Electrophoresis*, 16:1607-1611
- (2) **Kayser M**, Ritter H, Bercovitch F, Mrug M, Roewer L, and Nürnberg P (1996) Identification of five highly polymorphic microsatellites in rhesus macaque *Macaca mulatta* by cross-species amplification. *Molecular Ecology*, 5:157-159
- (3) Roewer L, **Kayser M**, Dieltjes P, Nagy M, Bakker E, Krawczak M, and de Knijff P (1996) Analysis of molecular variance (AMOVA) of Y-chromosome-specific microsatellites in two closely related human populations. *Human Molecular Genetics*, 5 (7):1029-1033
- (4) Zerjal T, Dashnyam B, Pandya A, **Kayser M**, Roewer L, Santos F, Schiefenhövel W, Fretwell N, Jobling MA, Harihara S, Shimizu K, Semjidmaa D, Sajantila A, Salo P, Crawford MH, Evgrafov O, and Tyler-Smith C (1997) Genetic relationships of Asians and northern Europeans revealed by Y-chromosomal DNA analysis. *American Journal of Human Genetics*, 60:1174-1183
- (5) **Kayser M**, Caglià A, Corach D, Fretwell N, Gehrig C, Graziosi G, Heidorn F, Herrmann S, Herzog B, Hidding M, Honda K, Jobling M, Krawczak M, Leim K, Meuser S, Meyer E, Oesterreich W, Pandya A, Parson W, Piccinini A, Perez-Lezaun A, Prinz M, Schmitt C, Schneider PM, Szibor R, Teifel-Greding J, Weichhold G, de Knijff P, and Roewer L (1997) Evaluation of Y chromosomal STRs: A Multicenter Study. *International Journal of Legal Medicine*, 110 (3):125-133; 141-149
- (6) De Knijff P, **Kayser M**, Caglià A, Corach D, Fretwell N, Gehrig C, Graziosi G, Heidorn F, Herrmann S, Herzog B, Hidding M, Honda K, Jobling M, Krawczak M, Leim K, Meuser S, Meyer E, Oesterreich W, Pandya A, Parson W, Piccinini A, Perez-Lezaun A, Prinz M, Schmitt C, Schneider PM, Szibor R, Teifel-Greding J, Weichhold G, and Roewer L (1997) Chromosome Y microsatellites: population genetic and evolutionary aspects. *International Journal of Legal Medicine*, 110 (3):134-140
- (7) **Kayser M**, de Knijff P, Dieltjes P, Krawczak M, Nagy M, Zerjal T, Pandya A, Tyler-Smith C, and Roewer L (1997) Applications of microsatellite based Y chromosome haplotyping. *Electrophoresis*, 18:1602-1607
- (8) Nürnberg P, Sauermann U, **Kayser M**, Lanfer C, Manz E, Widdig A, Berard J, Bercovitch FB, Kessler M, Schmidtke J, and Krawczak M (1998) Paternity assessment in rhesus macaques (*Macaca mulatta*): multilocus DNA fingerprinting and PCR marker typing. *American Journal of Primatology*, 44:1-18
- (9) Forster P, **Kayser M**, Meyer E, Roewer L, Pfeiffer H, Benkmann H, and Brinkmann B (1998) Phylogenetic resolution of complex mutational features at Y-STR DYS390 in aboriginal Australians and Papuans. *Molecular Biology and Evolution*, 15(9):1108-1114
- (10) Hagelberg E, **Kayser M**, Nagy M, Roewer L, Zimdahl H, Krawczak M, Lió P, and Schiefenhövel W (1999) Molecular genetic evidence for the human settlement of the Pacific: analysis of mitochondrial DNA, Y chromosome and HLA markers. *Philosophical Transactions of the Royal Society London, Series B*, 354:141-152
- (11) Zimdahl H, Schiefenhövel W, **Kayser M**, Roewer L, and Nagy M (1999): Towards understanding the origin of Austronesians in the Solomon Sea: HLA class II polymorphism in eight distinct populations of Asia-Oceania. *European Journal of Immunogenetics*, 26:405-416
- (12) Santos FR, Pandya A, **Kayser M**, Mitchell RJ, Liu A, Singh L, Destro-Bisol G, Novelletto A, Qamar R, Mehdi SQ, Adhikari R, de Knijff P, and Tyler-Smith C

- (2000): A polymorphic L1 retroposon insertion in the centromere of the human Y chromosome. *Human Molecular Genetics*, 9:421-430
- (13) **Kayser M**, Roewer L, Hedman M, Henke L, Henke J, Brauer S, Krüger C, Krawczak M, Nagy M, Dobosz T, Szibor R, de Knijff P, Stoneking M, and Sajantila A (2000) Characteristics and frequency of germline mutations at microsatellite loci from the human Y chromosome, as revealed by direct observation in father/son pairs. *American Journal of Human Genetics*, 66:1580-1588
- (14) Roewer L, **Kayser M**, de Knijff P, Anslinger K, Corach D, Füredi S, Geserick G, Henke L, Hidding M, Kärger HJ, Lessig R, Nagy M, Pascali VL, Parson W, Rolf B, Schmitt C, Szibor R, Teifel-Greding J, and Krawczak M (2000) A new method for the evaluation of matches in non-recombining genomes: application to Y-chromosomal short tandem repeat (STR) haplotypes in European males. *Forensic Science International*, 114:31-43
- (15) **Kayser M**, Brauer S, Weiss G, Underhill P, Roewer L, Schiefenhövel W, and Stoneking M (2000) Melanesian origin of Polynesian Y chromosomes. *Current Biology*, 10:1237-1246
Featured in Science: Ann Gibbons 'The Peopling of the Pacific' 291 (5509):1735, DOI: 10.1126/science.291.5509.1735 <http://www.sciencemag.org/cgi/content/full/291/5509/1735>
- (16) Rosser ZH, Zerjal T, Hurles ME, Adojaan M, Alavantic D, Amorim A, Amos W, Armenteros M, Arroyo E, Barbujani G, Beckmann L, Bertranpetit J, Bosch E, Bradley DG, Brede G, Cooper GC, Corte-Real HBSM, de Knijff P, Decorte R, Dubrova YE, Evgrafov O, Gilissen A, Glisic S, Gölge M, Hill EW, Jeziorowska A, Kalaydjieva L, **Kayser M**, Kravchenco SA, Lavinha J, Livshits LA, Maria S, McElreavy K, Meitinger TA, Melegh B, Mitchell RJ, Nicholson J, Norby S, Noveletto A, Pandya A, Parik J, Patsalis PC, Pereira L, Peterlin B, Pielberg G, Prata MJ, Previdere C, Rajczyk K, Roewer L, Rootsi S, Rubinsztein DC, Saillard J, Santos FR, Shlumukova M, Stefanescu G, Sykes BC, Tolun A, Villems R, Tyler-Smith C, and Jobling MA (2000) Y-chromosomal diversity within Europe is clinal and influenced primarily by geography, rather than by language. *American Journal of Human Genetics*, 67:1526-1543
- (17) Szibor R, **Kayser M**, and Roewer L (2000) Identification of the human Y-chromosomal microsatellite locus DYS19 from degraded DNA. *American Journal of Forensic Medicine and Pathology*, 21 (3):252-254
- (18) **Kayser M**, Brauer S, Weiss G, Schiefenhövel W, Underhill P, and Stoneking M (2001) Independent histories of Y chromosomes from Melanesia and Australia. *American Journal of Human Genetics*, 68:173-190
- (19) Melton T, Clifford S, **Kayser M**, Nasidze I, Batzer M, and Stoneking M (2001) Diversity and heterogeneity in mitochondrial DNA of North American populations. *Journal of Forensic Sciences*, 46:46-52
- (20) **Kayser M**, Krawczak M, Excoffier L, Dieltjes P, Corach D, Cagliá A, Gehrig C, Bernini LF, Jespersen J, Bakker E, Roewer L, and de Knijff P (2001) Extensive analysis of chromosome Y microsatellite haplotypes in globally dispersed human populations. *American Journal of Human Genetics*, 68:990-1018
- (21) **Kayser M** and Sajantila A (2001) Mutations at Y-STR loci: implications for paternity testing and forensic analysis. *Forensic Science International*, 118 (2-3):116-121
- (22) Roewer L, Krawczak M, Willuweit S, Nagy M, Alves C, Amorim A, Anslinger K, Augustin C, Betz A, Bosch E, Caglia A, Carracedo A, Corach D, Dobosz T, Dupuy BM, Füredi S, Gehrig C, Gusmao L, Henke J, Henke L, Hidding M, Hohoff C, Hoste B, Jobling MA, Kärger HJ, de Knijff P, Lessig R, Lieberr E, Lorente M, Martinez-Jarreta B, Nievas P, Nowak M, Parson W, Pascali VL, Penacino G, Ploski R, Rolf B, Sala A, Schmidt U, Schmitt C, Schneider PM, Szibor R, Teifel-Greding, J, and **Kayser M** (2001) Online reference database of European Y-chromosomal short tandem repeat (STR) haplotypes. *Forensic Science International*, 118 (2-3):106-113

- (23) Gill P, Brenner C, Brinkmann B, Budowle B, Mayr E, Jobling M, de Knijff P, **Kayser M**, Krawczak M, Morling N, Olaisen B, Pascali V, Prinz M, Roewer L, Schneider PM, Sajantila A, and Tyler-Smith C (2001) International Society of Forensic Genetics recommendations on forensic analysis using Y-chromosome STRs. *International Journal of Legal Medicine*, 114:305-309
- (24) Henke J, Henke L, Chatthopadhyay PK, **Kayser M**, Dülmer M, Cleef S, Pöche H, and Felske-Zech H (2001) Application of Y-chromosomal STR haplotypes to Forensic Genetics. *Croatian Medical Journal*, 42 (3):292-297
- (25) Kittler R, Stoneking M, and **Kayser M** (2002) A whole genome amplification method to generate long fragments from low quantities of genomic DNA. *Analytical Biochemistry*, 300:237-244
- (26) **Kayser M**, Brauer S, Willuweit S, Schädlich H, Batzer MA, Zawacki J, Prinz M, Roewer L, and Stoneking M (2002) Online Y-chromosomal short tandem repeat haplotype reference database (YHRD) for U.S. populations. *Journal of Forensic Sciences*, 47(3):513-519
- (27) Pakendorf B, Morar B, Tarskaia LA, **Kayser M**, Soodyall H, Rodewald A, and Stoneking M (2002) Y-chromosomal evidence for a severe reduction in male population size of Yakuts. *Human Genetics*, 110 (2):198-200
- (28) Ploski R, Wozniak M, Pawlowski R, Monies DM, Branicki W, Kupiec T, Kloosterman A, Dobosz T, Bosch E, Nowak M, Lessig R, Jobling MA, Roewer L, and **Kayser M** (2002) Homogeneity and distinctiveness of Polish paternal lineages revealed by Y chromosome microsatellite haplotype analysis. *Human Genetics*, 110:592-600
- (29) **Kayser M**, Brauer S, Weiss G, Schiefenhövel W, Underhill P, Shen P, Oefner P, Tommaseo-Ponzetta M, and Stoneking M (2003) Reduced Y-chromosome, but not mtDNA, diversity in human populations from West New Guinea. *American Journal of Human Genetics*, 72:281-302
- (30) Kittler R, Erler A, Brauer S, Stoneking M, and **Kayser M** (2003) Apparent intra-chromosomal exchange on the human Y chromosome explained by population history. *European Journal of Human Genetics*, 11:304-314
- (31) **Kayser M**, Brauer S, Schädlich H, Prinz M, Batzer MA, Zimmermann PA, Boatman BA and Stoneking M (2003) Y chromosome STR haplotypes and the genetic structure of U.S. populations of African, European, and Hispanic ancestry. *Genome Research*, 13:624-634
- (32) **Kayser M**, Brauer S, and Stoneking M (2003) A genome scan to detect candidate regions influenced by local natural selection in human populations. *Molecular Biology and Evolution*, 20(6):893-900
- (33) Kittler R, **Kayser M** & Stoneking M (2003) Molecular evolution of *Pediculus humanus* and the origin of clothing. *Current Biology*, 13:1414-1417
Featured in Nature: John Whitfield 'Lice genes date first human clothes - Garments appeared 70,000 years ago, suggests parasite DNA' 20 August 2003 | Nature | doi:10.1038/news030818-7
<http://www.nature.com/news/2003/030820/full/news030818-7.html>
- (34) Lessig R, Willuweit S, Krawczak M, Wu F-C, Pu C-E, Kim W, Henke L, Henke J, Miranda J, Hidding M, Benecke M, Schmitt C, Magno M, Calacal G, Delfin FC, de Ungria MCA, Elias S, Augustin C, Tun Z, Honda K, **Kayser M**, Gusmao L, Amorim A, Alves C, Hou Y, Keyser C, Ludes B, Klitsch M, Immel UD, Reichenpfeiffer B, Zaharova B, and Roewer L (2003) Asian online Y-STR haplotype reference database. *Legal Medicine*, 5:S160-S163
- (35) Zhivotovskiy LA, Underhill PA, Cinnioğlu C, **Kayser M**, Morar B, Kivisild T, Scozzari R, Cruciani F, Destro-Bisol G, Spedini G, Chambers GK, Herrera RJ, Yong KK, Gresham D, Tournev I, Feldman MW, Kalaydjieva L (2004) The effective mutation rate at Y chromosome short tandem repeats, with application to human population-divergence time. *American Journal of Human Genetics*, 74:50-61
- (36) **Kayser M**, Kittler R, Erler A, Hedman M, Lee AC, Mohyuddin A, Mehdi SQ, Rosser Z, Stoneking M, Jobling MA, Sajantila A, Tyler-Smith C (2004) A comprehensive

- survey of human Y-chromosomal microsatellites. *American Journal of Human Genetics*, 74:1183-1197
- (37) Erler A, Stoneking M, and **Kayser M** (2004) Development of Y-chromosomal microsatellite markers for non-human primates. *Molecular Ecology*, 13:2921-2930
- (38) Roewer L, Croucher PJP, Willuweit S, Lu TT, **Kayser M**, Lessig R, de Knijff P, Jobling MA, Tyler-Smith C, Krawczak M (2005) Signature of recent historical events in the European Y-chromosomal STR haplotype distribution. *Human Genetics*, 116 (4):279-291
- (39) **Kayser M**, Lao O, Anslinger K, Augustin C, Bargel G, Edelmann J, Elias S, Heinrich M, Henke J, Henke L, Hohoff C, Illing A, Jonkisz A, Kuzniar P, Lebioda A, Lessig R, Lewicki S, Maciejewska A, Monies DM, Pawłowski R, Poetsch M, Schmid D, Schmidt U, Schneider PM, Stradmann-Bellinghausen B, Szibor R, Wegener R, Wozniak M, Zoledziwska M, Roewer L, Dobosz T, and Ploski R (2005) Significant genetic differentiation between Poland and Germany follows present-day political borders as revealed by Y chromosome analysis. *Human Genetics*, 117 (5):428-443
- (40) Gusmao L, Butler JM, Carracedo A, Gill P, **Kayser M**, Mayr WR, Morling N, Prinz M, Roewer L, Tyler-Smith C, Schneider PM (2006) DNA Commission of the International Society of Forensic Genetics (ISFG): An update of the recommendations on the use of Y-STRs in forensic analysis. *International Journal of Legal Medicine*, 120:191-200
- (41) Lao O, van Duijn K, Kersbergen P, de Knijff P, and **Kayser M** (2006) Proportioning whole-genome single nucleotide polymorphism diversity for the identification of geographic population structure and genetic ancestry. *American Journal of Human Genetics*, 78:680-690
- (42) Eriksson J, Siedel H, Lukas D, **Kayser M**, Erler A, Hashimoto C, Hohmann G, Boesch C, Vigilant L (2006) Y-chromosome analysis confirms highly sex-biased dispersal and suggests a low male effective population size in bonobos (*Pan paniscus*). *Molecular Ecology*, 15(4):939-949
- (43) Quinque D, Kittler R, **Kayser M**, Stoneking M, and Nasidze I (2006) Evaluation of saliva as source of human DNA for population and association studies. *Analytical Biochemistry*, 353(2):272-277
- (44) **Kayser M**⁺, Vowles EJ⁺, Kappei D, Amos B (2006) Microsatellite length differences between humans and chimpanzees at autosomal loci are not found at equivalent haploid Y-chromosomal loci. *Genetics*, 173:2179-2186, ⁺ These authors contributed equally to this work
- (45) **Kayser M**, Brauer S, Cordaux R, Casto A, Lao O, Zhivotovsky LA, Moysse-Faurie C, Rutledge RB, Schiefenhoefel W, Gil D, Lin AA, Underhill PA, Oefner PJ, Trent RJ, and Stoneking M (2006) Melanesian and Asian origins of Polynesians: mtDNA and Y-chromosome gradients across the Pacific. *Molecular Biology and Evolution*, 23(11):2234-2244
- (46) Rootsi S., Zhivotovsky LA, Baldovic M, **Kayser M**, Kutuev IA, Khusainova R, Bermisheva MA, Gubina M, Fedorova SA, Ilumäe A-M, Khusnutdinova EK, Voevoda MI, Osipova LP, Stoneking M, Ferak V, Parik J, Kivisild T, Underhill PA, Villems R. (2007) A counter-clockwise northern route of the Y-chromosome haplogroup N from Southeast Asia towards Europe. *European Journal of Human Genetics*, 15:204-211
- (47) Lao O, de Gruijter H, van Duijn K, Navarro A, and **Kayser M** (2007) Signatures of positive selection in genes associated with human skin pigmentation as revealed from analyses of single nucleotide polymorphisms. *Annals of Human Genetics*, 71(3):354-369
- (48) **Kayser M**, Vermeulen M, Knoblauch H, Schuster H, Krawczak M, and Roewer L. (2007) Relating two deep-rooted pedigrees from Central Germany by high-

- resolution Y-STR haplotyping. *Forensic Science International: Genetics*, 1:125–128
- (49) Ballantyne KN, van Oorschot RAH, **Kayser M**, and Mitchell RJ (2007) Determining restriction digest efficiency using SNaPshot single base extension method and capillary electrophoresis. *Electrophoresis*, 28:1514–1517
- (50) Myles S, Hradetzky E, Engelken J, Lao O, Nuernberg P, Trent RJ, Wang X, **Kayser M**, and Stoneking M (2007) Identification of a candidate genetic variant for the high prevalence of type II diabetes in Polynesians. *European Journal of Human Genetics*, 15:584–589
- (51) Liu F, Arias-Vásquez A, Slegers K, Aulchenko YS, **Kayser M**, Sanchez-Juan P, Feng B-J, Bertoli-Avella AM, van Swieten J, Axenovich TI, Heutink P, van Broeckhoven C, Oostra BA, van Duijn CM (2007) A genome-wide screen for late onset Alzheimer's disease in a genetically isolated Dutch population. *American Journal of Human Genetics*, 81:17-31
- (52) Mona S, Tommaseo-Ponzetta M, Brauer S, Sudoyo H, Marzuki S, **Kayser M** (2007) Patterns of Y chromosome diversity intersect with the Trans-New Guinea hypothesis. *Molecular Biology and Evolution*, 24(11):2546-2555. Epub 2007 Sep 10. doi:10.1093/molbev/msm187
- (53) **Kayser M**⁺, Lao O⁺, Saar K, Brauer S, Wang X, Nuernberg P, Trent RJ, Stoneking M (2008) Genome-wide analysis indicates more Asian than Melanesian ancestry of Polynesians. *American Journal of Human Genetics*, 82:194-198, ⁺ These authors contributed equally to this work
- (54) Rodig H, Roewer L, Gross A, Richter T, de Knijff P, **Kayser M**, and Brabetz W (2008) Evaluation of haplotype discrimination capacity from 35 Y-chromosomal Short Tandem Repeat loci. *Forensic Science International*, 174(2-3):182-188. Epub 2007 May 31. DOI:10.1016/j.forsciint.2007.04.223
- (55) **Kayser M**, Liu F, Janssens ACJW, Rivadeneira F, Lao O, van Duijn K, Vermeulen M, Arp P, Jhamai MM, van IJcken WFJ, den Dunnen JT, Heath S, Zelenika D, Despriet DDG, Klaver CCW, Vingerling JR, de Jong PTVM, Hofman A, Aulchenko YS, Uitterlinden AG, Oostra BA, van Duijn CM (2008) Three genome wide association studies and a linkage analysis identify *HERC2* as a human iris color gene. *American Journal of Human Genetics*, 82(2):411-423. Epub 2008 Jan 25. Erratum in: Am J Hum Genet. 2008 82(3):801.
Featured in Science: Elizabeth Quill 'Don't It Make Your Brown Eyes Blue?' 1 February 2008 <http://news.sciencemag.org/sciencenow/2008/02/01-01.html>
- (56) Zubakov D, Hanekamp E, van IJken W and **Kayser M** (2008) Stable RNA markers for blood and saliva identification revealed from whole genome expression analysis of time-wise degraded stains. *International Journal of Legal Medicine*, 122(2):135-142. Epub 2007 Jun 20. DOI 10.1007/s00414-007-0182-6
- (57) **Kayser M**, Choi Y, van Oven M, Mona S, Brauer S, Trent RJ, Suarkia D, Schiefenhövel W, and Stoneking M (2008) The impact of the Austronesian expansion: evidence from mtDNA and Y-chromosome diversity in the Admiralty Islands of Melanesia. *Molecular Biology and Evolution*, 25(7):1362–1374. Epub 2008 Apr 3. doi:10.1093/molbev/msn078
- (58) **Kayser M**, Lao O and Stoneking M (2008) Reply to Hedrick "East Asian and Melanesian Ancestry in Polynesians", *American Journal of Human Genetics*, 83:140-142.
- (59) Lao O⁺, Lu TT⁺, Nothnagel M, Junge O, Freitag-Wolf S, Caliebe A, Balascakova M, Bertranpetit J, Bindoff LA, Comas D, Holmlund G, Kouvatsi A, Macek M, Mollet I, Parson W, Palo J, Ploski R, Sajantila A, Tagliabracci A, Gether U, Werge T, Rivadeneira F, Hofman A, Uitterlinden AG, Gieger C, Wichmann H-E, Rütther A, Schreiber S, Becker C, Nürnberg P, Nelson MR, Krawczak M⁺, and **Kayser M**⁺ (2008) Correlation between genetic and geographic structure in Europe. *Current Biology*, 18:1241-1248. Epub 2008, August 7. doi:10.1016/j.cub.2008.07.049, ⁺ These authors contributed equally to this work,

Featured in Nature Reviews Genetics: Patrick Goymer 'Population genetics: genetic geography' *Nature Reviews Genetics* 9, 732-733 <http://www.nature.com/nrg/journal/v9/n10/full/nrg2456.html>

- (60) Zubakov D, Kokshoorn M, Kloosterman A, and **Kayser M** (2009) New markers for old stains: stable mRNA markers for blood and saliva identification detected from stains up to 16 years of age. *International Journal of Legal Medicine*, 123:71–74. Epub 2008, July 2, DOI 10.1007/s00414-008-0249-z
- (61) Van Oven M and **Kayser M** (2009) Updated comprehensive phylogenetic tree of global human mitochondrial DNA variation. *Human Mutation*, 30 (2):E386-E394. Epub Oct 13 2008, DOI: 10.1002/humu.20921
- (62) Lu TT⁺, Lao O⁺, Nothnagel M, Junge O, Freitag-Wolf S, Caliebe A, Balascakova M, Bertranpetit J, Bindoff LA, Comas D, Holmlund G, Kouvatsi A, Macek M, Mollet I, Parson W, Palo J, Ploski R, Sajantila A, Tagliabracci A, Gether U, Werge T, Rivadeneira F, Hofman A, Uitterlinden AG, Gieger C, Wichmann H-E, Rütther A, Schreiber S, Becker C, Nürnberg P, Nelson MR, **Kayser M**⁺, and Krawczak M⁺ (2009) An evaluation of the genetic matched pair study design using genome-wide SNP data from the European population. *European Journal of Human Genetics*, 17:967-975. Epub 21 Jan 2009, doi: 10.1038/ejhg.2008.266, ⁺ These authors contributed equally to this work
- (63) Aulchenko YS⁺, Struchalin MV⁺, Belonogova NM, Axenovich TI, Weedon, MN, Hofman A, Uitterlinden AG, **Kayser M**, Oostra BA, van Duijn CM, Janssens ACJW, Borodin PM (2009) Predicting human height by Victorian and genomic methods. *European Journal of Human Genetics*, 17:1070-1075. Epub 18 February 2009; doi:10.1038/ejhg.2009.5, ⁺ These authors contributed equally to this work
- (64) Vermeulen M⁺, Wollstein A⁺, van der Gaag K, Lao O, Xue Y, Wang Q, Roewer L, Knoblauch H, Tyler-Smith C, de Knijff P, and **Kayser M** (2009) Improving global and regional resolution of male lineage differentiation by simple single-copy Y-chromosomal short tandem repeat polymorphisms. *Forensic Science International: Genetics*, 3:205-213. Epub February 2009, doi:10.1016/j.fsigen.2009.01.009, ⁺ These authors contributed equally to this work
- (65) **Kayser M** and Schneider PM (2009) DNA-based prediction of human externally visible characteristics in forensics: motivations, scientific challenges, and ethical considerations. *Forensic Science International: Genetics*, 3:154–161. Epub February 2009, doi:10.1016/j.fsi-fsigen.2009.01.012
- (66) Liu F, van Duijn K, Vingerling JR, Hofman A, Uitterlinden AG, Janssens ACJW, and **Kayser M** (2009) Eye color and the prediction of complex phenotypes from genotypes. *Current Biology*, 19 (5):R192-R193
Featured in Nature: Cheryl Jones March 9, 'Genetic test predicts eye color - Forensic tool could help catch criminals' *Nature* | doi:10.1038/news.2009.145
http://www.nature.com/news/2009/090309/full/news.2009.145.html?s=news_rss
- (67) Goedbloed M, Vermeulen M, Fang RN, Lembring M, Wollstein A, Lao O, Ballantyne K, Brauer S, Krüger C, Roewer L, Lessig R, Ploski R, Dobosz T, Henke L, Henke J, Furtado MR, and **Kayser M** (2009) Comprehensive mutation analysis of 17 Y-chromosomal short tandem repeat polymorphisms included in the AmpFISTR® Yfiler® PCR amplification kit. *International Journal of Legal Medicine*, 123:471-482. Epub April 2009, DOI 10.1007/s00414-009-0342-y
- (68) Mona S⁺, Grunz KE⁺, Brauer S, Pakendorf B, Castri L, Sudoyo H, Marzuki S, Barnes RH, Schmidtke J, Stoneking M, and **Kayser M** (2009) Genetic admixture history of eastern Indonesia as revealed by Y-chromosome and mitochondrial DNA analysis. *Molecular Biology and Evolution*, 26(8):1865-1877. Epub May 4, 2009; doi:10.1093/molbev/msp097, ⁺ These authors contributed equally to this work, Corrigendum published in 28(8) 2419-2420, 2011, doi:10.1093/molbev/msr12
- (69) Axenovich TI, Zorkoltseva IV, Belonogova NM, Struchalin MV, Kirichenko AV, **Kayser M**, Oostra BA, van Duijn CM, Aulchenko YS. Linkage analysis of adult height in a large pedigree from a Dutch genetically-isolated population. *Human Genetics*, 126(3):457-71. Epub May 2009, DOI 10.1007/s00439-009-0686-x.

- (70) Estrada K, Krawczak M, Schreiber S, van Duijn K, Stolk L, van Meurs JBJ, Liu F, Penninx BWJH, Smit JH, Vogelzangs N, Hottenga JJ, Willemsen G, de Geus EJC, Lorentzon M, von Eller-Eberstein H, Lips P, Schoor N, Pop V, de Keijzer J, Hofman A, Aulchenko YS, Oostra BA, Ohlsson C, Boomsma DI, Uitterlinden AG, van Duijn CM, Rivadeneira F, **Kayser M** (2009) A genome-wide association study of northwestern Europeans involves the CNP signaling pathway in the etiology of human height variation. *Human Molecular Genetics*, 18 (18):3516-3524. Epub July 2009, doi:10.1093/hmg/ddp296
- (71) Robin C⁺, Bollerot K⁺, Mendes S, Haak E, Cerisoli F, Lauw I, Jorna R, Versteegen M, Vermeulen M, **Kayser M**, Kaimakis P, van der Linden R, Nawaz-Yousaf H, Cupedo T, Steegers E, and Dzierzak E (2009) Human placenta contains and maintains hematopoietic progenitors and stem cells throughout development. *Cell Stem Cell*, 5(4):385-395, ⁺ These authors contributed equally to this work
- (72) Kersbergen P, van Duijn K, Kloosterman AD, den Dunnen JT, **Kayser M**, de Knijff P (2009) Developing a set of ancestry-sensitive DNA markers reflecting continental origins of humans. *BMC Genetics*, 10:69. Online published October 27, 2009, doi:10.1186/1471-2156-10-69
- (73) Hoppenbrouwers IA, Aulchenko YS, Janssens AC, Ramagopalan SV, Broer L, **Kayser M**, Ebers GC, Oostra BA, van Duijn CM, Hintzen RQ (2009) Replication of CD58 and CLEC16A as genome-wide significant risk genes for multiple sclerosis. *Journal of Human Genetics*, 54:676-680
- (74) Shi W, Ayub Q, Vermeulen M, Shao R, Zuniga S, van der Gaag K, de Knijff P, **Kayser M**, Xue Y, and Tyler-Smith C (2010) A worldwide survey of human male demographic history based on Y-SNP and Y-STR data from the HGDP-CEPH populations. *Molecular Biology and Evolution*, 27:385-393. Advance Access published October 12, 2009
- (75) Corach D, Lao O, Bobillo C, van der Gaag K, Zuniga S, Vermeulen M, van Duijn K, Goedbloed M, Vallone PM, Parson W, de Knijff P, and **Kayser M** (2010) Inferring continental ancestry of Argentineans from autosomal, Y-chromosomal and mitochondrial DNA. *Annals of Human Genetics*, 74:65-76. Published Online: Dec 15 2009, DOI: 10.1111/j.1469-1809.2009.00556.x, **Cover Story**
- (76) Gauvin J⁺, Zubakov D⁺, van Rhee-Binkhorst J, Kloosterman A, Steegers E and **Kayser M** (2010) Forensic pregnancy diagnostics with placental mRNA markers. *International Journal of Legal Medicine*, 124:13-17. Epub 16 Jan 2009, doi:10.1007/s00414-008-0315-6, ⁺ These authors contributed equally to this work
- (77) Zubakov D, Boersma AWM, Choi Y, van Kuijk PF, Wiemer EAC, and **Kayser M** (2010) MicroRNA markers for forensic body fluid identification obtained from microarray screening and quantitative RT-PCR confirmation. *International Journal of Legal Medicine*, 124 (3):217-226, Epub February 2010, DOI 10.1007/s00414-009-0402-3
- (78) Liu F, Wollstein A, Hysi PG, Ankra-Badu GA, Spector TD, Park D, Zhu G, Larsson M, Duffy DL, Montgomery GW, Mackey DA, Walsh S, Lao O, Hofman A, Rivadeneira F, Vingerling JR, Uitterlinden AG, Martin NG, Hammond CJ, and **Kayser M** (2010) Digital quantification of human eye color highlights genetic association of three new loci. *PLoS Genetics*, 6 (5):e1000934, Epub May 6, 2010 **Featured in Nature**: 'Genetics: an eye for colour' Nature 465, 138 (13 May 2010) doi:10.1038/465138e <http://www.nature.com/nature/journal/v465/n7295/full/465138e.html> **Featured by NatureBlogs**, Janet Fang 'Suspect has hazel eyes with H 20 and S 0.6' 6 May 2010 http://blogs.nature.com/news/thegreatbeyond/2010/05/suspect_has_hazel_eyes_with_h.html
- (79) Nothnagel M, Lu TT, **Kayser M**, Krawczak M (2010) Genomic and geographic distribution of SNP-defined runs of homozygosity in Europeans. *Human Molecular Genetics*, 19 (15):2927-2935, Epub May 12, 2010. doi:10.1093/hmg/ddq198
- (80) Ballantyne KN, Goedbloed M, Fang R, Schaap O, Lao O, Wollstein A, Choi Y, van Duijn K, Vermeulen M, Brauer S, Decorte R, Poetsch M, von Wurmb-Schwark N, de Knijff O, Labuda D, Vézina H, Knoblach H, Lessig R, Roewer L, Ploski R, Dobosz T, Henke L, Henke J, Furtado MR, and **Kayser M** (2010) Mutability of Y-

chromosomal microsatellites: rates, characteristics, molecular bases and forensic implications. *American Journal of Human Genetics*, 87:341–353, Epub 02.09.2010 **Featured article**

- (81) Tims S, van Wamel W, Endtz HP, van Belkum A, and **Kayser M** (2010) Microbial DNA fingerprinting of human fingerprints: Dynamic colonization of fingertip microflora challenges human host inferences for forensic purposes. *International Journal of Legal Medicine*, 124(5):477-481, Epub June 2009, DOI 10.1007/s00414-009-0352-9
- (82) Ackermann K, Ballantyne KN, **Kayser M** (2010) Estimating trace deposition time with circadian biomarkers: a prospective and versatile tool for crime scene reconstruction. *International Journal of Legal Medicine*, 124(5):387-395, Epub 24 April 2010, DOI: 10.1007/s00414-010-0457-1, Erratum Epub 03 June 2010, DOI 10.1007/s00414-010-0471-3
- (83) Lango Allen H, Estrada K, Lettre G, Berndt SI, Weedon MN, Rivadeneira F, Willer CJ, Jackson AU, Vedantam S, Raychaudhuri S, Ferreira T, Wood AR, Weyant RJ, Segrè AV, Speliotes EK, Wheeler E, Soranzo N, Park JH, Yang J, Gudbjartsson D, Heard-Costa NL, Randall JC, Qi L, Vernon Smith A, Mägi R, Pastinen T, Liang L, Heid IM, Luan J, Thorleifsson G, Winkler TW, Goddard ME, Sin Lo K, Palmer C, Workalemahu T, Aulchenko YS, Johansson A, Carola Zillikens M, Feitosa MF, Esko T, Johnson T, Ketkar S, Kraft P, Mangino M, Prokopenko I, Absher D, Albrecht E, Ernst F, Glazer NL, Hayward C, Hottenga JJ, Jacobs KB, Knowles JW, Kutalik Z, Monda KL, Polasek O, Preuss M, Rayner NW, Robertson NR, Steinthorsdottir V, Tyrer JP, Voight BF, Wiklund F, Xu J, Hua Zhao J, Nyholt DR, Pellikka N, Perola M, Perry JR, Surakka I, Tammesoo ML, Altmaier EL, Amin N, Aspelund T, Bhangale T, Boucher G, Chasman DI, Chen C, Coin L, Cooper MN, Dixon AL, Gibson Q, Grundberg E, Hao K, Juhani Juntila M, Kaplan LM, Kettunen J, König IR, Kwan T, Lawrence RW, Levinson DF, Lorentzon M, McKnight B, Morris AP, Müller M, Suh Ngwa J, Purcell S, Rafelt S, Salem RM, Salvi E, Sanna S, Shi J, Sovio U, Thompson JR, Turchin MC, Vandenput L, Verlaan DJ, Vitart V, White CC, Ziegler A, Almgren P, Balmforth AJ, Campbell H, Citterio L, De Grandi A, Dominiczak A, Duan J, Elliott P, Elosua R, Eriksson JG, Freimer NB, Geus EJ, Glorioso N, Haiqing S, Hartikainen AL, Havulinna AS, Hicks AA, Hui J, Igl W, Illig T, Jula A, Kajantie E, Kilpeläinen TO, Koiranen M, Kolcic I, Koskinen S, Kovacs P, Laitinen J, Liu J, Lokki ML, Marusic A, Maschio A, Meitinger T, Mulas A, Paré G, Parker AN, Peden JF, Petersmann A, Pichler I, Pietiläinen KH, Pouta A, Ridderstråle M, Rotter JI, Sambrook JG, Sanders AR, Oliver Schmidt C, Sinisalo J, Smit JH, Stringham HM, Bragi Walters G, Widen E, Wild SH, Willemsen G, Zagato L, Zgaga L, Zitting P, Alavere H, Farrall M, McArdle WL, Nelis M, Peters MJ, Ripatti S, van Meurs JB, Aben KK, Ardlie KG, Beckmann JS, Beilby JP, Bergman RN, Bergmann S, Collins FS, Cusi D, den Heijer M, Eiriksdottir G, Gejman PV, Hall AS, Hamsten A, Huikuri HV, Iribarren C, Kähönen M, Kaprio J, Kathiresan S, Kiemenev L, Kocher T, Launer LJ, Lehtimäki T, Melander O, Mosley Jr TH, Musk AW, Nieminen MS, O'Donnell CJ, Ohlsson C, Oostra B, Palmer LJ, Raitakari O, Ridker PM, Rioux JD, Rissanen A, Rivolta C, Schunkert H, Shuldiner AR, Siscovick DS, Stumvoll M, Tönjes A, Tuomilehto J, van Ommen GJ, Viikari J, Heath AC, Martin NG, Montgomery GW, Province MA, **Kayser M**, Arnold AM, Atwood LD, Boerwinkle E, Chanock SJ, Deloukas P, Gieger C, Grönberg H, Hall P, Hattersley AT, Hengstenberg C, Hoffman W, Mark Lathrop G, Salomaa V, Schreiber S, Uda M, Waterworth D, Wright AF, Assimes TL, Barroso I, Hofman A, Mohlke KL, Boomsma DI, Caulfield MJ, Adrienne Cupples L, Erdmann J, Fox CS, Gudnason V, Gyllenstein U, Harris TB, Hayes RB, Jarvelin MR, Mooser V, Munroe PB, Ouwehand WH, Penninx BW, Pramstaller PP, Quertermous T, Rudan I, Samani NJ, Spector TD, Völzke H, Watkins H, Wilson JF, Groop LC, Haritunians T, Hu FB, Kaplan RC, Metspalu A, North KE, Schlessinger D, Wareham NJ, Hunter DJ, O'Connell JR, Strachan DP, Wichmann HE, Borecki IB, van Duijn CM, Schadt EE, Thorsteinsdottir U, Peltonen L, Uitterlinden AG, Visscher PM, Chatterjee N, Loos RJ, Boehnke M, McCarthy MI, Ingelsson E, Lindgren CM, Abecasis GR, Stefansson K, Frayling TM, Hirschhorn JN. (2010) Hundreds of variants clustered

- in genomic loci and biological pathways affect human height. *Nature*, 467:832-838, Epub 29 September 2010, doi:10.1038/nature09410
- (84) Lao O⁺, Vallone PM⁺, Coble MD, Diegoli TM, van Oven M, van der Gaag KJ, Pijpe J, de Knijff P, and **Kayser M** (2010) Evaluating self-declared ancestry of U.S. Americans with autosomal, Y-chromosomal and mitochondrial DNA. *Human Mutation*, 31(12): E1875–E1893, Epub 30 Sept 2010, doi: 10.1002/humu.21366
⁺ These authors contributed equally to this work
- (85) Zubakov D, Liu F, van Zelm MC, Vermeulen J, Oostra BA, van Duijn CM, Driessen GJ, van Dongen JJM, **Kayser M**⁺, Langerak AW⁺ (2010) Estimating human age from T cell DNA rearrangements. *Current Biology*, 20(22):R970, ⁺ These authors contributed equally to this work
Featured in Nature: Ewen Callaway 'The birthday candles in your veins - DNA artefacts from white blood cells offer forensic clues to a person's age' 22 November 2010 | Nature | doi:10.1038/news.2010.625 <http://www.nature.com/news/2010/101122/full/news.2010.625.html>
Featured in Science: Jennifer Carpenter 'Your Blood Holds Clues to Your Birthday' 22 November 2010 <http://news.sciencemag.org/sciencenow/2010/11/your-blood-holds-clues-to-your-b.html>
- (86) Wollstein A, Lao O, Becker C, Brauer S, Trent RJ, Nürnberg P, Stoneking M, and **Kayser M** (2010) Demographic history of Oceania inferred from genome-wide data. *Current Biology*, 20(22):1983–1992
- (87) Delfin F, Salvador JM, Calacal GC, Perdigon HB, Tabbada KA, Villamor LP, Halos SC, Gunnarsdottir E, Myles S, Hughes DA, Xu S, Jin L, Lao O, **Kayser M**, Hurles ME, Stoneking M, and De Ungria MCA. (2011) The Y-chromosome landscape of the Philippines: Extensive heterogeneity and varying genetic affinities of Negrito and non-Negrito groups. *European Journal of Human Genetics*, 19(2):224-30 Epub Sept 2010 doi:10.1038/ejhg.2010.162
- (88) Chaubey G, Metspalu M, Choi Y, Mägi R, Gallego Romero I, Soares P, van Oven M, Rootsi S, Hudjashov G, Basu Mallick C, Karmin M, Nelis M, Parik J, Goverdhana Reddy A, Metspalu E, van Driem G, Xue Y, Tyler-Smith C, Thangaraj K, Singh L, Remm M, Richards MB, Mirazon Lahr M, **Kayser M**, Villems M, and Kivisild T (2011) Population genetic structure in Indian Austroasiatic speakers: the role of landscape barriers and sex-specific admixture. *Molecular Biology and Evolution*, 28(2):1013-24, Epub Oct 2010, doi: 10.1093/molbev/msq288
- (89) van Oven M, Hämmerle JM, van Schoor M, Kushnick G, Pennekamp P, Zega I, Lao O, Brown L, Kennerknecht I, and **Kayser M** (2011) Unexpected island effects at an extreme: reduced Y-chromosome and mitochondrial DNA diversity in Nias. *Molecular Biology and Evolution*, 28(4):1349–1361, Epub Nov 8 2010, doi: 10.1093/molbev/msq300
- (90) Branicki W, Liu F, van Duijn K, Draus-Barini J, Pośpiech E, Walsh S, Kupiec T, Wojas-Pelc A, and **Kayser M** (2011) Model-based prediction of human hair color using DNA variants. *Human Genetics*, 129:443–454, Epub Jan 4 2011, DOI 10.1007/s00439-010-0939-8
- (91) Pugach I, Matveyev R, Wollstein A, **Kayser M**, Stoneking M (2011) Dating the age of admixture via wavelet transform analysis of genome-wide data. *Genome Biology*, 12:R19
- (92) Visser M, Zubakov D, Ballantyne KN, **Kayser M** (2011) mRNA-based skin identification for forensic applications. *International Journal of Legal Medicine*, 125:253–263, Epub Jan 11 2011, DOI 10.1007/s00414-010-0545-2
- (93) Van Oven M, Vermeulen M, and **Kayser M** (2011) Multiplex genotyping system for efficient inference of matrilineal genetic ancestry with continental resolution *Investigative Genetics*, 2:6 doi:10.1186/2041-2223-2-6
- (94) Walsh S, Liu F, Ballantyne K, van Oven M, Lao O, **Kayser M** (2011) IrisPlex: a sensitive DNA tool for accurate prediction of blue and brown eye colour in the absence of ancestry information. *Forensic Science International: Genetics*, 5:170-180, Epub 29 March 2010, doi:10.1016/j.fsigen.2010.02.004

- (95) Valkenburg O, Lao O, Schipper I, Louwers Y, Uitterlinden AG, **Kayser M**, Laven JSE (2011) Genetic ancestry affects the phenotype of normogonadotropic anovulatory (WHOII) subfertility. *The Journal of Clinical Endocrinology & Metabolism*, 96(7):E1181–E1187 (JCEM Online: Advances in Genetics)
- (96) Liebrechts-Akkerman G, Lao O, Liu F, van Sleuwen BE, Engelberts AC, 'Hoir MPL, Tiemeier HW and **Kayser M** (2011) Postnatal parental smoking: an important risk factor for SIDS. *European Journal of Paediatrics*, 170:1281–1291, Epub March 2011, DOI: 10.1007/s00431-011-1433-6
- (97) van Oven M, Ralf A, and **Kayser M** (2011) An efficient multiplex genotyping approach for detecting the major worldwide human Y-chromosome haplogroups. *International Journal of Legal Medicine*, 125:879–885, Epub July 22 2011, DOI:10.1007/s00414-011-0605-2
- (98) Reich D, Patterson N, Delfin F, Kircher M, Pugach I, Min-Shan Ko A, Ko Y-C, Jinam TA, Phipps ME, Saitou N, Wollstein A, **Kayser M**, Pääbo S, and Stoneking M (2011) Denisova gene flow and evidence for an early southern route migration of modern humans. *American Journal of Human Genetics*, 89:516–528, Epub September 22, 2011, DOI 10.1016/j.ajhg.2011.09.005.
Featured in Science, Nature etc.
- (99) Boehringer S, van der Lijn F, Liu F, Günther M, Sinigerova S, Birnbaum S, Ludwig KU, Herberz R, Klein S, Hofman A, Uitterlinden AG, Niessen WJ, Breteler MMB, van der Lugt A, Wurtz RP, Nöthen MM, Horsthemke B, Wiczorek D, Mangold E⁺, **Kayser M**⁺ (2011) Genetic determination of human facial morphology: links between cleft-lips and normal variation. *European Journal of Human Genetics*, 19:1192-1197; Epub 22 June 2011, doi:10.1038/ejhg.2011.110, ⁺ These authors contributed equally to this work, **Featured article**
- (100) Walsh S, Lindenbergh A, Zuniga SB, Sijen T, de Knijff P, **Kayser M**, and Ballantyne KN (2011) Developmental validation of the IrisPlex System: Determination of blue and brown iris colour for forensic intelligence. *Forensic Science International: Genetics*, 5:464–471, Epub 14 October 2010, doi:10.1016/j.fsigen.2010.09.008
- (101) Liu F, Struchalin MV, van Duijn K, Hofman A, Uitterlinden AG, Aulchenko YS, and **Kayser M** (2011) Detecting low frequent loss-of-function alleles in genome-wide association studies with red hair colour as example. *PLoS One*, 6(11):e28145
- (102) De Gruijter JM⁺, Lao O⁺, Vermeulen M, Xue Y, Woodwark C, Gillson CJ, Coffey AJ, Ayub Q, Mehdi SQ, **Kayser M**^{*}, Tyler-Smith C^{*} (2011) Contrasting signals of positive selection in genes involved in human skin color variation from tests based on SNP scans and resequencing. *Investigative Genetics*, 2:24, ^{+,*} These authors, respectively, contributed equally to this work
- (103) **Kayser M** and Schneider PM (2012) Reply to “Bracketing off population does not advance ethical reflection on EVCs: A reply to Kayser and Schneider” by A. M'charek, V. Toom, and B. Prainsack *Forensic Science International: Genetics*, 6:e18–e19
- (104) Ballantyne KN, **Kayser M** and Grootegoed JA (2011) Sex and gender issues in competitive sports: investigation of a historical case leads to a new viewpoint. *British Journal of Sports Medicine*, Epub May 3, 2011, DOI: 10.1136/bjsm.2010.082552
- (105) Ballantyne KN⁺, Keerl V⁺, Wollstein A, Choi Y, Zuniga SB, Ralf A, Vermeulen M, de Knijff P and **Kayser M** (2011) A new future of forensic Y-chromosome analysis: rapidly mutating Y-STRs for differentiating male relatives and paternal lineages. *Forensic Science International: Genetics*, Epub May 2011, doi:10.1016/j.fsigen.2011.04.017, ⁺ These authors contributed equally to this work
- (106) Delfin F⁺, Myles S⁺, Hughes D, Illek R, Pakendorf B, Choi Y, van Oven M, **Kayser M**^{*}, and Stoneking M^{*} (2011) Bridging Near and Remote Oceania: MtDNA and NRY variation in the Solomon Islands. *Molecular Biology and Evolution*, Epub July 18 2011, doi:10.1093/molbev/msr186, ^{+,*} These authors, respectively, contributed equally to this work

- (107) Walsh S, Wollstein A, Liu F, Chakravarthy U, de Jong PTVM, Rahu M, Seland JH, Soubrane G, Tomazzoli L, Topouzis F, Vingerling JR, Vioque J, Fletcher AE, Ballantyne KN, and **Kayser M** (2011) DNA-based eye color prediction across Europe with the IrisPlex system. *Forensic Science International: Genetics*, Epub August 2 2011, doi:10.1016/j.fsigen.2011.07.009
- (108) Ballantyne KN*, van Oven M*, Ralf A, Stoneking M, Mitchell RJ, van Oorschot RAH, and **Kayser M** (2011) MtDNA SNP multiplexes for efficient inference of matrilineal genetic ancestry within Oceania. *Forensic Science International: Genetics*, Epub September 22, 2011, doi:10.1016/j.fsigen.2011.08.010, * These authors contributed equally to this work
- (109) van Oven M, van den Tempel N and **Kayser M** (2011) A multiplex SNP assay for the dissection of human Y-chromosome haplogroup O representing the major paternal lineage in East and Southeast Asia. *Journal of Human Genetics*, Epub November 3, 2011; doi:10.1038/jhg.2011.120.
Commentary J Hum Genet Epub December 1, 2011; doi:10.1038/jhg.2011.136
- (110) Visser M, **Kayser M**, and Palstra R-J (2012) Functional genetics of common phenotypes: *HERC2* rs12913832 modulates human pigmentation by attenuating a long-range enhancer of *OCA2* expression. *Genome Research*, Epub Jan 12, doi:10.1101/gr.128652.111
- (111) Ackermann K, Revell VL, Lao O, Rombouts EJ, Skene DJ, and **Kayser M** (2011) Acute sleep deprivation affects diurnal rhythmicity in granulocytes. *Sleep*, in press

Invited Review Articles in Peer-Reviewed Scientific Journals:

- 1) **Kayser M** (2003) The human Y chromosome – introduction into genetics and applications. *Forensic Science Review*, 15(2): 77-89
- 2) **Kayser M** (2007) Uni-parental markers in human identity testing and forensic DNA analysis. *BioTechniques*, Vol. 43 Supplement: S16-S21
- 3) Lao O and **Kayser M** (2008) Positive selection on the *OCA2/HERC2* region and human pigmentation traits. *Cell Science Reviews*, 5(2), http://www.cellscience.com/Reviews18/Positive_selection_OCA2.html
- 4) Lao O and **Kayser M** (2008) Mechanismen und Auswirkungen natürlicher Selektion (Mechanisms and effects of natural selection). Special issue on population genetics of the *Zeitschrift für Medizinische Genetik*, 20:308–314, online published 1. September 2008, DOI 10.1007/s11825-008-0122-y
- 5) **Kayser M** (2010) The Human Genetic History of Oceania: Near and Remote Views of Dispersal. *Current Biology*, 20:R194–R201
- 6) **Kayser M** and de Knijff P (2011) Improving human forensics through advances in genetics, genomics and molecular biology. *Nature Reviews Genetics*, 12:179-192
Cover Story, Featured Article
- 7) Ballantyne KN and **Kayser M** (2011) Additional Y-STRs in forensics: Why, which and when. *Forensic Science Review*, in press

Editorial Articles in Peer-Reviewed Scientific Journals:

- 1) **Kayser M** (2009) Forensic pregnancy testing: a special case in molecular diagnostics. *Expert Review of Molecular Diagnostics*, 9(2):105-107
- 2) **Kayser M**, Budowle B, Sajantila A (2010) Welcome to Investigative Genetics. *Investigative Genetics*, 1:1

- 3) Budowle B, **Kayser M**, Sajantila A (2011) The demise of the United Kingdom's Forensic Science Service (FSS): loss of world-leading engine of innovation and development in the forensic sciences. *Investigative Genetics*, 2:4

Articles about M. Kayser in Peer-Reviewed Scientific Journals:

- 1) QA Manfred Kayser (2011) *Current Biology*, 21(3):R98-99
- 2) Can this DNA sleuth help catch criminals? (2011) News Focus Human Genome 10th Anniversary, *Science*, 331:838-840

Book Chapters:

- (1) Roewer L, **Kayser M**, Nagy M, and de Knijff P (1996) Male identification using Y-chromosomal STR polymorphisms. In: Carracedo A, Brinkmann B, Bär W (Eds), *Advances in Forensic Haemogenetics* Vol. 6, Dr. Köster, Berlin, Germany, 124-126
- (2) Nagy M, Zimdahl H, Krüger C, Anders P, **Kayser M**, Roewer L, and Schiefenhövel W (1997) Are the Trobriands emigrants of South-East Asia? In: Charron D (Ed) *HLA - Genetic diversity of HLA functional and medical implication*. Vol. 2, EDK Medical and Scientific International Publisher, Paris, France, 185-188
- (3) **Kayser M**, Krüger C, Nagy M, Geserick G, de Knijff P, and Roewer L (1998) Y-chromosomal DNA-analysis in paternity testing: experiences and recommendations. In: Olaisen B, Brinkmann B, Lincoln PJ (Eds) *Progress in Forensic Genetics* Vol.7, Elsevier Science B.V., Amsterdam, Netherlands, 494-496
- (4) Corach D, Penacino G, Sala A, Iannucci N, Martinez M, Villafane A, **Kayser M**, and Roewer L (1998) Y-specific STR in forensic casework: validation studies. In: Olaisen B, Brinkmann B, Lincoln PJ (Eds) *Progress in Forensic Genetics* Vol.7, Elsevier Science B.V., Amsterdam, The Netherlands, 418-420
- (5) Zerjal T, Pandya A, Santos FR, Adhikari R, Tarazona E, **Kayser M**, Evgarof O, Singh L, Thanaraj K, Destro-Bisol G, Thomas MG, Qamar R, Mehdi Q, Rosser ZH, Hurles ME, Jobling MA, and Tyler-Smith C (1999) The use of Y-chromosomal DNA variation to investigate population history: recent male spread in Asia and Europe. In: Papiha SS, Deka R and Chakraborty, R (Eds) *Genomic diversity: applications in human population genetics*, Kluwer Academic / Plenum Publishers, New York, U.S.A., 91-102
- (6) Roewer L, de Knijff P, and **Kayser M** (1999) Y chromosome STR analysis in forensic practice. Proceedings of the Second European Symposium on Human Identification. Promega Cooperation (Ed), Madison, USA, 13-16
- (7) Roewer L, **Kayser M**, Anslinger K, Augustin C, Caglia A, Corach D, Füredi S, Geserick G, Henke L, Hidding M, Kärigel HJ, de Knijff P, Lessing R, Pascali V, Parson W, Prinz M, Rolf B, Schneider P, Szibor R, Teifel-Geding J, and Krawczak M (2000) Caucasian Y-STR haplotype reference database for forensic application. In: Sensabaugh GF, Lincoln PJ and Olaisen B (Eds) *Progress in Forensic Genetics* Vol. 8, Elsevier Science B.V. Amsterdam, The Netherlands, 613-615
- (8) **Kayser M** (2007) Y-chromosomal markers in forensic genetics. In: *Molecular Forensics*, Rapley R and Whitehouse D (Eds), John Wiley & Sons, West Sussex, United Kingdom, 141-161
- (9) Stoneking M and **Kayser M** (2007) Genealogical markers: mtDNA and the Y-chromosome. In: *Genetic Variation: A Laboratory Manual*, Gabriel S., Stephens JC and Weiner M (Eds), Cold Spring Harbor Laboratory Press, Cold Spring Harbor, U.S.A., 421-436
- (10) Lao O and **Kayser M** (2009) Op het eerste gezicht: Hoe het klimaat onze huidskleur dicteerde (At the first glance: how climate has influenced our skin color) In: *Evolutie zit in je genen: over Darwin en genomics (Evolution is in your genes: on Darwin and*

- genomics*) Geraedts JPM, de Knijff P, Everdingen JJE, van den Broek J, Smits R (Eds), Stichting Bio-Wetenschappen en Maatschappij / Netherland Research Council (NWO), Den Haag, The Netherlands, 47-54
- (11) Ballantyne KN and **Kayser M** (2009) Forensic molecular diagnostics. In: *Molecular Diagnostics: Techniques & Applications*, van Leeuwen WB and Vink C (Eds), IVA GROEP BV, Rotterdam, The Netherlands, 211-235
- (12) Lao O and **Kayser M** (2009) Human relationships inferred from genetic variation. In: *ENCYCLOPEDIA OF LIFE SCIENCES*. John Wiley & Sons, Ltd., Chichester, United Kingdom, <http://www.els.net> [Doi: 10.1002/9780470015902.a0021758]
- (13) **Kayser M** (2010) The Austronesian expansion: human genetic evidence. In: *Building Bridges between Anthropology, Medicine and Human Ethology Tributes to Wulf Schiefelhövel*. Martin Brüne, Frank Salter, William C. McGrew (Eds). European University Press / The University Press Bochum, Bochum, Germany, 179-188
- (14) **Kayser M** (2010) Die menschliche Besiedlungsgeschichte Ozeaniens: genetische Befunde. In: *Unter Papuas und Melanesiern – Von kunstsinnigen Kannibalen, Kopfjägern, Baumhausmenschen, Sumpfnomaden, Turmspringern und anderen Südsee-Eingeborenen mit einem Beitrag von Manfred Kayser*, Garve R and Garve M, Verlag Neue Literatur, Jena, Germany, 222-227

Invited Lectures at Scientific Conferences and Symposia:

- (1) Genetic variability of human Y chromosomes and its applications from forensic individualization to evolutionary anthropology. 8. Heidelberg DNA-Day, 18.11.1997, Heidelberg, Germany
- (2) Mutation rates of Y-chromosomal microsatellites. 2nd International Forensic Y-User Workshop, 16.06.2000, Berlin, Germany
- (3) Molecular anthropology: insights from the Y chromosome. 52rd Mosbach Colloquium of the German Society for Biochemistry and Molecular Biology „Evolution – in vivo, in vitro and in machina“, 07.04.2001, Mosbach, Germany, Abstract in *Biological Chemistry* (2001) 382 (S7) Suppl.
- (4) The human Y chromosome: characteristics and applications. Plenary lecture, AAFS-Workshop „Y-Chromosome Analysis and its Application to Forensic Casework“, 54th Annual Meeting of the American Society of Forensic Sciences, 12.02.2002, Atlanta, USA
- (5) A systematic search for new polymorphic microsatellite loci on the human Y chromosome: strategy and first results. Plenary lecture 3rd International Forensic Y-User Workshop, 7.-8.11.2002, Porto, Portugal
- (6) Sex, culture, and genetic diversity - what does it tell us about human population history. Key lecture 5th Meeting of the German Society of Anthropology, 17.09.2003, Potsdam, Germany
- (7) The human Y chromosome: a brief introduction into characteristics and applications. Key lecture at Y Chromosome Workshop, 3rd European Academy of Forensic Sciences Triennial Meeting, 22.09.2003, Istanbul, Turkey
- (8) Peopling of the Pacific: A genetic perspective. Plenary lecture 17th International Symposium on the Forensic Sciences. The Australian and New Zealand Forensic Science Society Biennial Conference, 29.03.2004, Wellington, New Zealand
- (9) The human Y chromosome: molecular characteristics and forensic application. 17th International Symposium on the Forensic Sciences. The Australian and New Zealand Forensic Science Society Biennial Conference, 29.03.2004, Wellington, New Zealand

- (10) The genetics of human individually recognizable characteristics. Genomics Momentum Conference 2004, 01.10.2004, Rotterdam, The Netherlands
- (11) Survey of Y-chromosomal microsatellites in human and non-human primates. Key lecture 4th International Forensic Y-User Workshop “Haploid DNA Markers in Forensic Genetics”, 18-20.11.2004, Berlin, Germany
- (12) New scientific perspectives in forensic genetics. Symposium “Future perspectives in forensic sciences”. The Netherlands Forensic Institute, 10.02.2005, Den Haag, The Netherlands
- (13) DNA molecules in criminalistics: insights into forensic genetics. Sigma Symposium 2005 “Molecula delicti: chemie van het rechte pad af (Chemical molecules and criminalistics)” Radboud University Nijmegen, 17.03.2005, Nijmegen, The Netherlands
- (14) Evaluation of qualitative individual-specific characteristics in human genetic research. Symposium “The transparent criminal – possibilities and limits of DNA-analysis in law enforcement” organized by Hessen Ministry of Justice, Schloss Biebrich, 22.03.2005, Wiesbaden, Germany
- (15) DNA profiling and genetic ancestry identification. 2nd Symposium of the Genomics Network for Young Scientists (GeNeYouS), 27.04.2005, Oss, The Netherlands
- (16) Genetic Identification of human geographic ancestry and visible traits: state of science and future perspectives. 2nd Expert Meeting of the Netherlands Ministry of Justice “New and other applications of DNA-analysis in law enforcement”, 30.06.2005, Utrecht, The Netherlands
- (17) Identification of genes involved in local selection and genetic adaptation in humans. Peer-Review of the Deutsche Forschungsgemeinschaft (German Research Council) regarding the planned Collaborative Research Centre “Molecular basis of evolutionary innovations” (SFB 680), 24.08.2005, Cologne, Germany (SFB was finally granted)
- (18) Forensic Biotechnology: DNA testing for externally visible properties. 11th Netherlands Biotechnology Congress, special session Forensic Biotechnology, 16.03.2006, Ede, The Netherlands
- (19) Forensic Genomics: whole genome SNP diversity for genetic ancestry identification. International Symposium of the Royal Netherlands Academy of Arts and Sciences “The role of DNA polymorphisms in complex traits and diseases”, 17.03.2006, Amsterdam, The Netherlands
- (20) Genomics in Research – career opportunities within research – the case of forensic genomics. Bio Career Event 2006, Netherlands Genomics Initiative, 18.05.2006, Utrecht, The Netherlands
- (21) Y-chromosomal information for identifying geographic origin and genetic ancestry. Key lecture 21th Meeting of the Society of Forensic Genetics Italy, 05.09.2006, Lipari, Italy
- (22) Human genetic history: migrations and adaptations. Annual Meeting 2006 of the German Association for Gene Diagnostics (AGD), 22.09.2006, Cologne, Germany
- (23) Geographic identification in forensics: CSI fiction or reality? IBL Symposium 2006 “Natural variation in a post-genomic context”. Institute of Biology, Leiden University, 16.11.2006, Leiden, The Netherlands
- (24) Adam and Eve in paradise: human genetic history of the Pacific. International EMBO Workshop “Human evolution and disease”, 6-9.12.2006, Hyderabad, India
- (25) Sampling and recent demographic events. International conference “DNA Sampling - Strategies & Design”. 15-16.03.2007, Paris, France
- (26) Identification of human geographic origins in forensic genetics. Key lecture 6th International Congress of the Baltic Medico-Legal Association, 14.-16.06.2007, Vilnius, Lithuania

- (27) Molecular Autopsy in Forensics: Facts and fictions. Symposium "Autopsy Pathology: New Challenges", 13.07.2007, Rotterdam, The Netherlands
- (28) Identification of geographic origin in forensic genetics (in German). Inaugural Symposium Opening of the Institut für Blutgruppenforschung LGC GmbH new location, 07.09.2007. Köln, Germany
- (29) New perspectives in Forensic Molecular Biology. Symposium Forensic Medicine (Forensische Geneeskunde) of the Medical Student Association of the Erasmus University Rotterdam (Medische Faculteits Vereniging Rotterdam, MFVR), 20.10.2007. Rotterdam, The Netherlands
- (30) Evolutionary processes shaping human genetic diversity. Opening lecture at Symposium "Mutations in a historical context" of the Commission on Molecular Biological Diagnostic, Netherlands Society of Clinical Chemistry and Laboratory Medicine, 09.11.2007, Utrecht, The Netherlands
- (31) Sex-mediated differences in human population history: a genetic perspective. Symposium "Differences between men and woman" of the (Medical)Biology Student Association of Nijmegen University "De BeeVee". 29.11.2007, Nijmegen, The Netherlands
- (32) Forensic Genomics. International Symposium of the Royal Netherlands Academy of Arts and Sciences "The role of DNA polymorphisms in complex traits and diseases", 20.03.2008, Amsterdam, The Netherlands
- (33) Dating biological stains using molecular techniques. Symposium "Dating in the Forensic Context". University of Amsterdam, 27.03.2008, Amsterdam, The Netherlands
- (34) New perspectives in forensic genetics. Opening lecture at Benelux Forensic User Meeting 2008, Applied Biosystems, 10.04.2008, Nieuwerkerk a/d IJssel, The Netherlands
- (35) The human genome sequence and perspectives in forensic genetics. Key lecture at 8th Annual Meeting of the Belgium Society of Human Genetics "The human genome: past, present and future". University Hospital, Catholic University Leuven, Campus Gasthuisberg, 25.04.2008, Leuven, Belgium
- (36) Genetics and prediction of human eye color. Key lecture at workshop "Genetics of complex traits and its application in forensic science", 2nd International Conference "DNA in Forensics" in combination with the 6th International Forensic Y-User Workshop and the 3rd EMPOP Meeting, 27.-30.05.2008, Ancona, Italy
- (37) Geographic structure in human population genetic data. Key lecture at Section "Population Computational Biology", 6th International Conference on Bioinformatics of Genome Regulation and Structure, 22-28.06.2008 Novosibirsk, Russia
- (38) The Austronesian expansion: genetic evidence. Symposium Human Ethology, 10-11.10.2008, Max Planck Institute Erling / Andechs, Germany
- (39) Evolutionary genetics of human skin pigmentation. 10th Annual Scientific Meeting of the Netherlands Society for Experimental Dermatology (NVED), 5-6.02.2009, Lunteren, The Netherlands
- (40) New trends in forensic DNA diagnostics: prediction of visible traits. 4th International Genomics in Business Congress, 19-21.04.2009, Amsterdam, The Netherlands
- (41) Forensic genomics: from bio-geographic ancestry testing to visible trait prediction. 9th Annual International Gene Forum "New frontiers in genomics", 12-13.06.2009, Tartu, Estonia
- (42) Genetics and prediction of human visible traits. The 11th International Meeting on Human Genome Variation and Complex Genome Analysis (HGV2009), 11.-13.09.2009, Tallin, Estonia

- (43) Broadening the horizon: New Y-STRs for forensic practice. Pre-Congress Workshop "Y Chromosome markers and YHRD" 23rd World Congress International Society for Forensic Genetics, 14.09.2009, Buenos Aires, Argentina
- (44) Geographic population structure and genetic ancestry. Opening lecture International Symposium "Molecular Anthropology and the Peopling of the Americas", University of Buenos Aires, 21.09.2009, Buenos Aires, Argentina
- (45) Genes and geography of Europe. 30th General Assembly of the International Union of Biological Sciences and Darwin 200 Human Evolution Symposium, hosted by The International Union of Biological Sciences (*IUBS*) and The United Nations Educational Scientific and Cultural Organization (*UNESCO*), The University of the Western Cape, 12.10.2009, Bellville, Cape Town, South Africa
- (46) Solving a case in 2012 (joint presentation together with P. de Knijff and T. Sijen) Launch Symposium of the Forensic Genomics Consortium Netherlands "Introducing the Forensic Genomics Consortium: research that cracks crime", Netherlands Forensic Institute, 19.11.2009, Den Haag, The Netherlands
- (47) DNA prediction of appearance traits for forensic application. Symposium "Recht doen met Forensisch DNA-onderzoek" University of Amsterdam, 14.01.2010, Amsterdam, The Netherlands
- (48) Case studies of D/RNA technology in the future. Biotechnology Symposium Australian Federal Police, 03.09.2010, Sydney, Australia
- (49) Predicting appearance: new molecular tool for investigative intelligence. The 20th International Symposium on the Forensic Sciences, The Australian and New Zealand Forensic Science Society Biennial Conference, 05.09.2010, Sydney, Australia
- (50) The use of RNA in forensic analysis. Symposium Forensic Analysis 2010, 10.09.2010, University of Huddersfield, United Kingdom
- (51) Predicting externally visible traits and forensic applications. Symposium Forensic Analysis 2010, 10.09.2010, University of Huddersfield, United Kingdom
- (52) Forensic molecular phenotyping: from sample to appearance. 7th International Congress of Baltic Medico-Legal Association, 12.11.2010, Helsinki, Finland
- (53) Perspektiven forensischer Molekularbiologie (Perspectives in forensic molecular biology), Symposium Forensische DNA Analysis 2010, Universitätsmedizin Charité, Campus Virchow Klinikum, 25.11.2010, Berlin, Germany
- (54) From genotypes to phenotypes: human appearance. International Networking Conference: From DNA to phenotypes. Royal Netherlands Academy of Arts and Sciences in collaboration with several biomedical graduate schools of the Netherlands. 09.03.2011, Erasmus University Medical Center Rotterdam, The Netherlands
- (55) Körpergröße – eine Frage des genetischen Codes? (Human body height – a question of genetic code?), Mittags-Lecture, 1. Internationales Orthopädisches Symposium "Deformitäten und Destruktionen an der Wirbelsäule" Universitätsmedizin Greifswald, 14.05.2011, Greifswald, Germany
- (56) New perspectives in human forensic molecular biology. Key lecture, Scientific Symposium on the 20th Anniversary of National Board of Forensic Medicine of Sweden, 19.05.2011, Stockholm, Sweden
- (57) Human appearance: genetic basis, DNA prediction and forensic applications. Keynote lecture. 7th Conference of the International Society of Applied Biological Sciences in Forensic, Anthropological and Medical Genetics. 20.06.2011, Bol, Island of Brac, Croatia
- (58) Beyond STR profiles: Molecular approaches for obtaining additional information from human forensic samples. Invited lecture 24th World Congress of the International Society of Forensic Genetics, 29.08.-03.09.2011, Vienna, Austria

- (59) The genetics of human appearance. Cold Spring Harbor Meeting on Personal Genomes, 30.09.-02.10.2011, Cold Spring Harbor, USA
- (60) Forensic DNA Phenotyping: Biological Aspects. 22nd International Symposium on Human Identification, 03.-06.10.2011, National Harbor, USA

Invited Lectures at Scientific Institutions:

- (1) Genetic perspectives on the colonization of the Pacific. Institute Seminar, Max Planck Institute for Evolutionary Anthropology, 16.03.2001, Leipzig, Germany
- (2) The human Y chromosome and its application to molecular anthropology and human identification. Central University Venezuela, Department of Sciences, Institute for Experimental Biology, 27.06.2001, Caracas, Venezuela
- (3) Y chromosome perspectives on the peopling of the Pacific. University of Sydney, Department of Molecular & Clinical Genetics, 21.09.2001, Sydney, Australia
- (4) Human population history in Oceania in the light of molecular genetics. Johannes-Gutenberg-University Mainz, Institute of Anthropology, Lecture (short list) to fill the position of full (C4) professor of anthropology, Department of Biology, Institute for Anthropology, 23.10.2001, Mainz, Germany
- (5) Human genetic history in New Guinea. Department of Zoology, University of Bari, 21.11.2003, Bari, Italy
- (6) Forensic identification beyond neutral genetic profiling? Institute of Legal Medicine, University of Helsinki, 02.12.2004, Helsinki, Finland
- (7) The biological passport photograph. Scientific Farewell Symposium for Dr. Leo de Waal Director NFI, „The power of sharing knowledge“, Netherlands Forensic Institute, 31.03.2005, Den Haag, The Netherlands
- (8) Proportioning global whole-genome SNP diversity for identifying human population structure and geographic ancestry. The Wellcome Trust Sanger Institute, 09.09.2005, Hinxton, United Kingdom
- (9) Of genes and crime. Inaugural lecture on acceptance of the Full Professorship and Chair of Forensic Molecular Biology at Erasmus MC - Medical Faculty of Erasmus University Rotterdam, 27.02.2006, Rotterdam, The Netherlands
- (10) The human genome and our own history. Department of Epidemiology & Biostatistics, Erasmus University Medical Center, 12.02.2007, Rotterdam, The Netherlands
- (11) RNA markers in forensic genetics: tissue identification and beyond. Netherlands Forensic Institute, 05.03.2007, Den Haag, The Netherlands
- (12) Human genetic history of Polynesia. Department of Zoology, University of Bari, 20.04.2007, Bari, Italy
- (13) Detection of human geographic origins. Department of Human and Medical Genetics, University of Vilnius, 15.06.2007, Vilnius, Lithuania
- (14) Molecular genetics and genetic prediction of human eye color. Netherlands Forensic Institute, 15.11.2007, Den Haag, The Netherlands
- (15) Genetics and genetic prediction of human iris color. Max Planck Institute for Evolutionary Anthropology, 23.11.2007, Leipzig, Germany
- (16) Human genetic history of the Pacific. Morrison Institute for Population and Resource Studies, Stanford University, 13.02.2008, Stanford, U.S.A.
- (17) Genetics of human iris color. Department of Ophthalmology, Erasmus University Medical Center, 09.05.2008, Rotterdam, The Netherlands

- (18) Genome-wide association studies towards unveiling the genetic basis of human iris color variation. Department of Epidemiology, Erasmus University Medical Center, 30.06.2008, Rotterdam, The Netherlands
- (19) Origins and migration history of Pacific Islanders: a genetic perspective. Department of Anthropology and Museum of Anthropology and Archaeology, University of Pennsylvania, 06.05.2009, Philadelphia, U.S.A.
- (20) New uses of molecular biology for future forensic applications. University of Canberra / The Australian and New Zealand Forensic Science Society, 17.02.2010, Canberra, Australia
- (21) Population genetics and recent human evolution. Postgraduate Programs "Genetics and Molecular Evolution" and "Genomics and Proteomics: Functions and Applications", Department of Biology, University of Bari, 02.03.2010, Bari, Italy
- (22) The genetics of human appearance, IBM Research Program, 03.03.2010, Bari, Italy
- (23) Genetic Anthropology: Ancestry, Adaptation, Appearance. Lecture (short list) on the Opening of the Full Professorship Biological Anthropology (Ordinariat, W3-Level), Department of Biology, Ludwig-Maximilians-University Munich, 16.04.2010, Munich, Germany
- (24) Genetic structure of human populations with implications. Lecture within Studium Generale (medical students), Erasmus University Medical Center, 11.05.2010, Rotterdam, The Netherlands
- (25) Progress on DNA-based eye color prediction. Netherlands Forensic Institute, 22.06.2010, Den Haag, The Netherlands
- (26) What DNA tells about ancestry and looks. Lecture series 'Frontiers in Science in the Low Countries', 22.09.2010, Erasmus University Medical Center, Rotterdam, Netherlands
- (27) Forensic Molecular Biology: A brief introduction. Lecture Series 'CSI for Real', Capita Selecta Erasmus University Medical Student Association, 06.10.2010, Rotterdam, Netherlands
- (28) Forensic Disaster Victim Identification with DNA analysis. Dies Natalis M.F.L.S.2010, Symposium Leiden University Medical Faculty, 04.11.2010, Leiden, Netherlands
- (29) Genetics of Human Appearance. Seminar Series New Trends in Human Genetics Institute of Human Genetics and Life & Brain Center, University of Bonn, 20.01.2011, Bonn, Germany
- (30) Perspektiven forensischer Molekularbiologie (Perspectives in forensic molecular biology), Institut für Rechtsmedizin, Universität Bonn, 20.01.2011, Bonn, Germany
- (31) Future Perspectives in human forensic molecular biology. Office of the Chief Medical Examiner (OCME) of New York City, Department of Forensic Biology, 03.10.2011, New York City, USA

Invited Lectures at Scientific Courses / Teaching Programs:

- (1) The human Y chromosome: characteristics, evolution, genes and polymorphisms. United Nations University / Institute for Advanced Studies, Course DNA typing in Forensic Medicine and Molecular Anthropology, 25.06.2001, Baruta, Venezuela
- (2) The human Y chromosome in forensic medicine and molecular anthropology. United Nations University / Institute for Advanced Studies, Course DNA typing in Forensic Medicine and Molecular Anthropology, 26.06.2001, Baruta, Venezuela
- (3) Introduction into human genetic diversity. Master of Science Program Molecular Medicine, Erasmus University Medical Centre Rotterdam, 07.02.2005, Rotterdam, The Netherlands

- (4) The use of DNA in forensics: past, presence, and future. 6th Joint Medical-Genetic Center South-Holland (MGC) and the Cancer Research UK (CRUK) Graduate Student Workshop, 26.05.2005, Liege, Belgium
- (5) Forensic genomics: Future developments in forensic genetics beyond neutral genetic profiling, Erasmus University Postgraduate Program Molecular Medicine, Get-out-Lab days, 12.03.2005, Domburg, The Netherlands
- (6) Signatures of historic events on the genome of human populations. Erasmus Summer Program Course „Introduction to Genomics and Bioinformatics“, 17.08.2005, Rotterdam, The Netherlands
- (7) Introduction into the human Y chromosome and its applications to forensic genetics. Master of Science Program Forensic Science, University of Amsterdam, 10.10.2005, Amsterdam, The Netherlands
- (8) The genetics of human appearance. Master of Science Program Forensic Science, University of Amsterdam, 10.10.2005, Amsterdam, The Netherlands
- (9) New developments in forensic genetics: SNPing away current problems? Postgraduate Program Molecular Medicine Course „SNPs and Human Diseases“, Erasmus University Medical Centre Rotterdam, 20.10.2005, Rotterdam, The Netherlands
- (10) Human genetic diversity and applications. Master of Science Program Molecular Medicine, Erasmus University Medical Centre Rotterdam, 06.02.2006, Rotterdam, The Netherlands
- (11) Human evolutionary population genetics. Erasmus Summer Program Course „Introduction to Genomics and Bioinformatics“, 16.08.2006, Rotterdam, The Netherlands
- (12) Forensic phenotyping: facts or fiction? Master of Science Program Forensic Science, University of Amsterdam, 9.10.2006, Amsterdam, The Netherlands
- (13) SNPs in forensics. Postgraduate Program Molecular Medicine Course „SNPs and Human Diseases“, Erasmus University Medical Centre Rotterdam, 02.11.2006, Rotterdam, The Netherlands
- (14) Human evolutionary genetics: origins, migrations, adaptations. Introductory lecture Master of Science Program Molecular Medicine, Erasmus University Medical Centre Rotterdam, 27.11.2006, Rotterdam, The Netherlands
- (15) Predicting appearance traits from crime scene samples: facts or fiction? Forensic Science Program at University of Applied Sciences Amsterdam (Hogeschool van Amsterdam), 14.12.2006, Amsterdam, The Netherlands
- (16) Human migration history: a brief introduction. Course Evolutionary Genetics, Institute of Genetics, University of Cologne, 14.05.2007, Germany
- (17) Human adaptation history: a brief introduction. Course Evolutionary Genetics, Institute of Genetics, University of Cologne, 15.05.2007, Germany
- (18) Forensic molecular diagnostics. Postgraduate Program Molecular Medicine Course „Molecular Diagnostics“, Erasmus University Medical Centre Rotterdam, 01.06.2007, Rotterdam, The Netherlands
- (19) Evolutionary history of human phenotypic variation. Erasmus Summer Program 2007, 31.10.2007, Rotterdam, The Netherlands
- (20) Forensic molecular diagnostics. Postgraduate Program Molecular Medicine Course „Molecular Diagnostics“, Erasmus University Medical Centre Rotterdam, 12.10.2007, Rotterdam, The Netherlands
- (21) SNPs in forensics. Postgraduate Program Molecular Medicine Course „SNPs and Human Diseases“, Erasmus University Medical Centre Rotterdam, 08.11.2007, Rotterdam, The Netherlands

- (22) Human evolutionary genetics: origins, migrations, adaptations. Introductory lecture Master of Science Program Molecular Medicine, Erasmus University Medical Centre Rotterdam, 12.11.2007, Rotterdam, The Netherlands
- (23) Forensic molecular phenotyping: dreams or future reality? Forensic Science Program at University of Applied Sciences Amsterdam (Hogeschool van Amsterdam), 14.12.2007, Amsterdam, The Netherlands
- (24) Human Genetic Diversity: origins, migration, adaptation. Erasmus Winter Program 2007, Erasmus University Medical Center, 04.02.2008, Rotterdam, The Netherlands
- (25) Forensic phenotyping: facts or fiction? Master of Science Program Forensic Science, University of Amsterdam, 14.04.2008, Amsterdam, The Netherlands
- (26) Geographic structure and genetic ancestry. ½ day within Course Genomics in Molecular Medicine, Erasmus Summer Program 2008, Erasmus University Medical Center, 22.08.2008, Rotterdam, The Netherlands
- (27) SNPs in forensics. Postgraduate Program Molecular Medicine Course „SNPs and Human Diseases“, Erasmus University Medical Centre Rotterdam, 07.11.2008, Rotterdam, The Netherlands
- (28) Human evolutionary genetics: origins, migrations, adaptations. Introductory lecture Master of Science Program Molecular Medicine, Erasmus University Medical Centre Rotterdam, 17.11.2008, Rotterdam, The Netherlands
- (29) Prediction of externally visible traits of unknown persons. Erasmus University Postgraduate Program Molecular Medicine, Get-out-Lab days, 13.03.2009, Soest, The Netherlands
- (30) Genetic aspects of human population history. Workshop Socio-environmental dynamics over the last 12,000 years: the creation of landscapes. Graduate School Human Development in Landscapes. Christian-Albrechts-University Kiel, 02.04.2009, Kiel, Germany
- (31) Forensic phenotyping: facts or fiction? Master of Science Program Forensic Science, University of Amsterdam, 20.04.2009, Amsterdam, The Netherlands
- (32) Genetics and prediction of human visible traits. Forensic Genetics Working Group Meeting One, University of Pennsylvania, 04-05.05.2009, Philadelphia. U.S.A.
- (33) Forensic molecular diagnostics. Molecular Diagnostics Course, Postgraduate Program Molecular Medicine, Erasmus University Medical Centre Rotterdam, 29.05.2009, Rotterdam, The Netherlands
- (34) Human evolutionary genetics: origins, migrations, adaptations. Introductory lecture Master of Science Program Molecular Medicine, Erasmus University Medical Centre Rotterdam, 29.10.2009, Rotterdam, The Netherlands
- (35) SNPs in forensics. Postgraduate Program Molecular Medicine Course „SNPs and Human Diseases“, Erasmus University Medical Centre Rotterdam, 04.11.2009, Rotterdam, The Netherlands
- (36) Forensics genetics: past, presence, future. Honours Class “Forensic Medicine” Erasmus University Medical Center, 17.11.2009, Rotterdam, The Netherlands
- (37) Genetic structure of human populations and implications. Erasmus Winter Program 2010, Erasmus University Rotterdam, 28.01.2010, Rotterdam, The Netherlands
- (38) SNPs in forensics. Two day course taught to Australian Federal Police Forensic Services, 15.-17.02.2010, Canberra, Australia
- (39) Forensic phenotyping: geographic information from DNA. Master of Science Program Forensic Science, University of Amsterdam, 17.05.2010, Amsterdam, The Netherlands
- (40) Forensic phenotyping: appearance information from DNA. Master of Science Program Forensic Science, University of Amsterdam, 17.05.2010, Amsterdam, The Netherlands

- (41) Human evolutionary genetics. Genetics Course, Postgraduate Program Medical Genetic Center Southwest Netherlands (MGC), 19.05.2010, Rotterdam, The Netherlands
- (42) Forensic molecular diagnostics. Molecular Diagnostics Course, Postgraduate Program Molecular Medicine, Erasmus University Medical Centre Rotterdam, 21.05.2010, Rotterdam, The Netherlands
- (43) How well does your DNA predict your appearance? Summer Course Human Identification: Forensic Genetics and Criminalistics. Universidad Complutense Madrid, Cursos de Verano 2010, 26-30.07.2010, Escorial, Spain
- (44) Improving forensic analyses with human genomics. Master Class Human Genomics, Erasmus Summer Program 2010, Erasmus University Rotterdam, 17.08.2010, Rotterdam, The Netherlands
- (45) Forensic molecular diagnostics – a brief introduction. Master of Science Program Infection & Immunity, Erasmus University Medical Centre Rotterdam, 17.08.2010, Rotterdam, The Netherlands
- (46) Human evolutionary genetics – a brief introduction. Master of Science Program Infection & Immunity, Erasmus University Medical Centre Rotterdam, 23.08.2010, Rotterdam, The Netherlands
- (47) SNPs in forensics. Postgraduate Program Molecular Medicine Course „SNPs and Human Diseases“, Erasmus University Medical Centre Rotterdam, 17.11.2010, Rotterdam, The Netherlands
- (48) Improving human forensics through advances in genomics. Erasmus Winter Program 2011, Erasmus University Rotterdam, 03.02.2011, Rotterdam, The Netherlands
- (49) Human evolutionary genetics. Genetics Course, Postgraduate Program Medical Genetic Center Southwest Netherlands (MGC), 11.05.2011, Rotterdam, The Netherlands
- (50) Forensic molecular diagnostics. Molecular Diagnostics Course, Postgraduate Program Molecular Medicine, Erasmus University Medical Centre Rotterdam, 16.06.2011, Rotterdam, The Netherlands
- (51) Forensic molecular biology – a brief introduction. Master of Science Program Infection & Immunity, Erasmus University Medical Centre Rotterdam, 16.08.2011, Rotterdam, The Netherlands
- (52) Human evolutionary genetics – a brief introduction. Master of Science Program Infection & Immunity, Erasmus University Medical Centre Rotterdam, 22.08.2011, Rotterdam, The Netherlands
- (53) Human evolutionary genetics: origins, migrations, adaptations. Introductory lecture Master of Science Program Molecular Medicine, Erasmus University Medical Centre Rotterdam, 21.11.2011, Rotterdam, The Netherlands
- (54) SNPs in forensics. Postgraduate Program Molecular Medicine Course „SNPs and Human Diseases“, Erasmus University Medical Centre Rotterdam, 23.11.2010, Rotterdam, The Netherlands

Invited Contributions to Public Events and Media

- (1) Television Talk Show “Hart aber Fair” of the WDR Fernsehen. Title: “DNA test: horror scenario or silver bullet” (DNA test: Horrorvision oder Wunderwaffe), 19.01.2005, Berlin, Germany
- (2) Science Café Rotterdam. Title: “CSI Rotterdam: facts and fiction of forensic DNA-Analysis”. 29.10.2007, Rotterdam, The Netherlands

- (3) Erasmus MC Junior Science Workshop on human evolutionary genetics. Title: "We are family" together with Peter de Knijff, 08.11.2007, Rotterdam, The Netherlands
- (4) Genootschapscollege 2009 "Het belang van de ontdekking van het DNA...", Koninklijk Zeeuwsch Genootschap der Wetenschappen, Royal Zeeland Society of Sciences Lecture Series 2009 "The relevance of the discovery of DNA", Title: "The migration of Homo sapiens out of Africa and his genetic relationship to Neanderthals and chimpanzee", 09.10.2009, Middelburg, The Netherlands
- (5) Evolution Hautnah. Haus der Wissenschaft, Titel: „Genetisch sind wir all gleich, nur manche die sind gleicher. Genetische Variabilität von Menschen und Bevölkerungen“, 02.12.2010, Braunschweig, Germany

Features in newspapers and science journals as well as in radio and tv documentaries e.g. Nature (UK), Science (USA), Times (UK), New York Times (USA), New Scientist (UK), NRC Handelsblad (Netherlands), Volkskrant (Netherlands), Allgemeine Dagblatt (Netherlands), Quest (Netherlands), Frankfurter Allgemeine Sonntagszeitung (Germany); Die Zeit (Germany), Der Spiegel (Germany), Focus (Germany), Stern (Germany), Sueddeutsche Zeitung (Germany), Rheinische Post (Germany), Muy Interesante (Spain), In Flight Magazine-Croatia Airlines (Croatia), BBC Worldservice (UK), Deutschlandradio Kultur (Germany), Deutschlandfunk (Germany), Deutsche Welle (Germany), Westdeutscher Rundfunk (Germany), Radio Rijnmond (Netherlands), RTL Aktuell (Germany), Spiegel TV (Germany), Swedish Television (Sweden), TV Rotterdam-Rijnmond (Netherlands) etc.

Pick-ups of press releases on scientific publications in numerous newspapers and on websites around the world

Personally-given Oral Presentations at Scientific Conferences (non-invited):

- (1) **Kayser M:** Sequence variability at the STR-locus D12S67. 3rd Spring Meeting of the Region North of the German Society of Legal Medicine, 10.-11.06.1994, Magdeburg, Germany, Abstract in: *Zentralblatt Rechtsmedizin*, 1994, 42 (7-8), 495
- (2) **Kayser M** and Roewer L: How many alleles has an allele? Results and consequences of the STR sequence analyses. 73rd Annual Meeting of the German Society of Legal Medicine, 06.-10.09.1994, Munich, Germany, Abstract in: *Zentralblatt Rechtsmedizin*, 1994, 42 (6), 420
- (3) **Kayser M**, Nürnberg P, Bercovitch F, Nagy M, and Roewer L: Increased variability of a human microsatellite in *Macaca mulatta* due to a large-scale deletion / insertion event during primate evolution. 3rd International DNA Fingerprinting Conference, 12.-16.12.1994, Hyderabad, India
- (4) **Kayser M:** Towards individualisation of any human male and patrilineage using Y-chromosomal STR polymorphisms. 1st International Forensic Y-User Workshop, 19.-20.04.1996, Berlin, Germany
- (5) **Kayser M**, Dieltjes P, Nagy M, de Knijff P, and Roewer L: Variation and distribution of human Y-haplotypes revealed by microsatellite analysis. 4th International DNA Fingerprinting Conference, 02.-07.12.1996, Melbourne, Australia
- (6) **Kayser M**, Roewer L, Nagy M, and Geserick G: Y-chromosomal STRs in paternity testing with special regard to deficiency cases. 6. Spring Meeting of the Region North of the German Society of Legal Medicine, 23.-24.05.1997, Berlin, Germany
- (7) **Kayser M**, Krüger C, Nagy M, Geserick G, de Knijff P, and Roewer L: Chromosome Y analysis in paternity testing: experiences and recommendations. 17th International Congress of the International Society of Forensic Haemogenetics, 02.-06.09.1997, Oslo, Norway
- (8) **Kayser M**, Roewer L, Nagy M, and Geserick G: Power of forensic evidence of the Y-chromosomal DNA-analysis. 76th Annual Meeting of the German Society of Legal Medicine, 16.-20.09.1997, Jena, Germany

- (9) **Kayser M**, Dieltjes P, Corach D, Penacino G, Caglià A, Gehrig C, Pascali VL, Bakker E, Roewer L, Krawczak M, and de Knijff P: Haplotype and phylogenetic analysis of polymorphic Y-chromosomal microsatellites in global populations. Cold Spring Harbor Meeting on Human Evolution, 04.-08.10. 1997, Cold Spring Harbor, New York, USA
- (10) **Kayser M**, Brauer, S, Weiss G, Underhill, PA, Schiefenhövel W, and Stoneking M: Y chromosome analysis suggests a Melanesian origin of Polynesians and an independent population history of Melanesia and Australia. Cold Spring Harbor Meeting on Human Origin & Disease, 25.-29.10.2000, Cold Spring Harbor, New York, USA
- (11) **Kayser M**, Brauer S, Schädlich H, and Stoneking M: Y-STR haplotype database of North American populations. 53rd Annual Scientific Meeting of the American Academy of Forensic Sciences, 19-24.02.2001, Seattle, USA
- (12) **Kayser M**, Brauer S, Weiss G, Schiefenhövel W, Underhill P, Shen P, Oefner P, Tommaseo-Ponzetta M, and Stoneking M. Extreme reduction in Y-chromosome, but not mtDNA, diversity in human populations from West New Guinea. Cold Spring Harbor Meeting on Human Origin & Disease, 30.10.-03.11.2002, Cold Spring Harbor, New York, USA
- (13) **Kayser, M.** The DYS385 story - Insights from molecular genetics and population history. 3rd International Forensic Y-User Workshop, 7.11.2002, Porto, Portugal
- (14) **Kayser M**, Lao O, van Duijn JK, Kersbergen P, de Knijff P. Autosomal markers for human population identification from whole genome SNP analyses. 21st International Congress of the International Society of Forensic Genetics, 13.09.-17.09.2005, Ponta Delgada, Azores, Portugal
- (15) **Kayser M**, Vermeulen M, de Knijff P and Tyler-Smith C. 50 novel simple Y-chromosomal microsatellites: global genetic diversity and mutation rates. International Conference DNA in Forensics 2006 and 5th International Forensic Y-User Workshop, 28-30.09.2006. Innsbruck, Austria
- (16) **Kayser M**, Liu F, Aulchenko YS, Vermeulen M, Rivadeneira F, Klaver CWC, Despriet DDG, de Jong PTVM, Hofman A, Oostra BA, Uiterlinden AG, van Duijn CM Towards Genetic Prediction of Human Externally Visible Characteristics: The Case of Iris Color. 22st International Congress of the International Society of Forensic Genetics, 22-25.08.2007, Copenhagen, Denmark
- (17) **Kayser M**, Pros and cons of uni-parental markers in reconstructing the genetic history of individuals and populations: a case study from the Pacific. 2nd International Conference "DNA in Forensics" in combination with the 6th International Forensic Y-User Workshop and the 3rd EMPOP Meeting, 27-30.05.2008, Ancona, Italy
- (18) **Kayser M**, How well does your DNA predict your appearance? 23rd World Congress of the International Society for Forensic Genetics, 15.-19.09.2009, Buenos Aires, Argentina

Co-author of additional 50 papers presented as talks at scientific conferences

Poster Presentations at Scientific Conferences:

- (1) Roewer L and **Kayser M**: Haplotyping the human Y chromosome by 5 different microsatellite markers. 3rd International DNA Fingerprinting Conference, 12.-16.12.1994, Hyderabad, India
- (2) Penacino G, **Kayser M**, Sala A, Roewer L, and Corach D: Y chromosome specific STRs attributes on different ethnic groups. 9th International Congress of Human Genetics, 18.-23.08.1996, Rio de Janeiro, Brazil

- (3) **Kayser M**, Zerjal T, Tyler-Smith C, de Knijff P, and Roewer L: Y-chromosomal markers in molecular Anthropology. 2nd Congress of the German Society of Anthropology, 03.-06.10.1996, Berlin, Germany
- (4) De Knijff P, Roewer L, **Kayser M**, and Bakker EB: Chromosome Y microsatellites and their use in determining population affinities. 46th Annual Meeting of the American Society of Human Genetics, 29.10.-02.11.1996, San Francisco, USA, Abstract in: *American Journal of Human Genetics* 1996, 59 (4) (suppl.)
- (5) **Kayser M**, Roewer L, Tyler-Smith C, and de Knijff P with collaborators: Genetic variation at Y-chromosomal microsatellite loci. 3rd International HUGO Single Chromosome Workshop on the Y Chromosome, 13.-16.04.1997, Heidelberg, Germany, Abstract in *Human Genome Data Base* (GDB), Accession Number CIT 765978, *Cytogenetics and Cell Genetics* 79: 1-20
- (6) Zerjal T, Santos FR, Pandya A, Dashnyam B, Evgrafov OV, Jobling M, **Kayser M**, and Tyler-Smith C: Use of combined Y-chromosomal point mutation and microsatellite haplotypes to investigate male migration in Asia and Europe. 3rd International HUGO Single Chromosome Workshop on the Y Chromosome, 13.-16.04.1997, Heidelberg, Germany, Abstract in *Human Genome Data Base* (GDB), Assesion Number CIT 766003, *Cytogenetics and Cell Genetics* 79: 1-20
- (7) Pandya A, Santos FR, Zerjal T, **Kayser M**, Roewer L, Evgrafov OV, Mitchell RJ, Sajantila A, and Tyler-Smith C: The use of Y-chromosomal DNA haplotypes to investigate human population history. HUGO-Conference - Human Genome Variation in Europe, 12.-16.09.1997, Helsinki, Finland
- (8) **Kayser M**, Forster P, Meyer E, Brinkmann B, Roewer L, de Knijff P, and Stoneking M: Extraordinary mutations at the human Y-chromosomal microsatellite locus DYS390 in Australasia and their use for investigating male population history. NATO Advanced Study Institute Meeting on Genes, Fossils and Behavior: an Integrated Approach to Human Evolution, 02.-15.09.1998, Cambridge, England
- (9) Roewer L and **Kayser M** & The Forensic Y User Group: Pilot project of a national Y-STR haplotype database for forensic application. 5th International DNA Fingerprinting Conference, 17.-22.01.1999, Grahamstown, South Afrika
- (10) **Kayser M**, Redd A, Schiefenhövel W, and Stoneking M.: Combined Y-chromosomal DNA analysis of human populations from Asia-Oceania. Cold Spring Harbor Meeting on Human Evolution, 21.-25.04.1999, Cold Spring Harbor, New York, USA
- (11) **Kayser M**, Nagy M, Geserick G, and Roewer L: Mutations at human Y-chromosomal microsatellite loci: results and consequences for forensic applications. 4th European Research Conference on Inherited Disorders and their Genes in Different Human Populations, 06.-10.05.1999, Obernai (Straßbourg), France
- (12) Pakendorf, B, Tarskaya L, Morar B, **Kayser M**, Soodyall H, and Rodewald A: Attempting to uncover the origins of the Sakha – an unsolved mystery. Cold Spring Harbor Meeting on Human Origin & Disease, 25.-29.10.2000, Cold Spring Harbor, New York, USA
- (13) Seiberling S, **Kayser M**, Lignitz E, Poetsch M: First Y-SNP data from northeast Germany. International Symposium on Forensic DNA Technology, 19-20.09.2003 / 82. Annual Meeting of the German Society of Legal Medicine, 17.-20.09.2003, Münster, Germany
- (14) Schmidt U, Meier N, and **Kayser M**: Y-chromosomal SNP and STR analysis in a population sample of southwest Germany. International Symposium on Forensic DNA Technology, 19-20.09.2003 / 82. Annual Meeting of the German Society of Legal Medicine, 17.-20.09.2003, Münster, Germany
- (15) Eler A, Stoneking M, and **Kayser M**: New Y-chromosomal microsatellite markers in non-human primates as identified by cross-species amplification. 8. International Congress of the Society of Primatology, 1.-4.10.2003, Leipzig, Germany

- (16) Hughes DA, **Kayser M**, and Stoneking M: Determining if local selection has influenced a candidate gene identified by a genome scan. The 6th International Meeting on Single Nucleotide Polymorphism and Complex Genome Analysis, 20.-23.11.2003, Chantilly, Virginia, USA
- (17) Kersbergen P, JK van Duijn, de Leeuw WJF, den Dunnen JT, Kloosterman AD, **Kayser M**, de Knijff P. Finding needles in a haystack: selecting ancestry informative markers through bulk analyses. European Human Genetics Conference 2005, 07-10.05.2005, Prague, Czech Republic
- (18) Souto L, Rocha PM, Pires A, Ferreira E, **Kayser M**, Amorim A, Corte-Real F, Vieira DN. Mitochondrial DNA variability in populations from East Timor. 21st International Congress of the International Society of Forensic Genetics, 13.09.-17.09.2005, Ponta Delgada, Azores, Portugal
- (19) Rodig H, Willuweit S, Brauer S, Groß A, Weidlich S, Stenzl V, Nagy M, **Kayser M**, Roewer L. The male genetic history of Sorbs – a Slavic island population in Germany. 21st International Congress of the International Society of Forensic Genetics, 13.09.-17.09.2005, Ponta Delgada, Azores, Portugal
- (20) Myles S, Hradetzky E, **Kayser M**, Stoneking M. The signature of positive selection on diabetes-associated SNPs in Polynesians. 4th Annual Meeting of the National Genome Research Network Germany (NGFN), 19-20.11.2005, Bonn, Germany
- (21) **Kayser M**, Cordaux R, Underhill PA, Trent R, and Stoneking M. Melanesian and Asian origins of Polynesians as revealed by Y chromosome and mtDNA analysis. Language and Genes an Interdisciplinary Conference. 08–10.09.2006 University of California at Santa Barbara, Santa Barbara, U.S.A.
- (22) Lu TT, Krawczak M, Schreiber S, Lao O, **Kayser M** (on behalf of the Affymetrix 500K population diversity project). The Affymetrix 500K control project and beyond: Chip-based assessment of European genetic diversity. 5th Annual Meeting of the National Genome Research Network Germany (NGFN), 25-26.11.2006, Heidelberg, Germany
- (23) Myles S, Blass T, Oerlecke I, **Kayser M**, Stoneking M. Human mtDNA variation in the Solomon Islands. International EMBO Workshop “Human evolution and disease”, 6-9.12.2006, Hyderabad, India
- (24) Corach D, Lao O, Bobillo C, Zimmermann M, Vermeulen M, van der Gaag K, Parson W, de Knijff P, **Kayser M**. Building bricks in unveiling human population history and dynamics of extant Argentina using a multifocal genetic approach. 2nd International Conference DNA in Forensics together with the 6th International Forensic Y-User Workshop and the 3rd EMPOP Meeting, 27-30.05.2008, Ancona, Italy
- (25) Delfin FC, De Ungria MCA, Salvador JM, Calacal GC, Perdigon HB, Tabbada KA, Villamor LP, Halos SC, Xu S, Li J, Gunnarsdottir E, **Kayser M**, Stoneking M and Hurles ME. Y-chromosome genetic affinities of nine Filipino ethno-linguistic groups. Annual Meeting of the Society for Molecular Biology and Evolution, 05.-08.06.2008, Barcelona, Spain
- (26) Lao O, Aulchenko Y, **Kayser M**. In silico genome-wide association mapping of complex traits. Annual Meeting of the Society for Molecular Biology and Evolution, 05.-08.06.2008, Barcelona, Spain
- (27) Liebrechts-Akkerman G, van Duijn K, Ooms AHAG, Lao L, Jaddoe VWV, van Duijn CM, Hofman A, de Jonge GA, de Krijger RR, **Kayser M**. Genetic predisposition of SIDS in the Netherlands. 10th International SIDS Conference 2008, 23- 26.06.2008, Portsmouth, UK
- (28) Lao O, Lu TT, Nothnagel M, Junge O, Freitag-Wolf S, Caliebe A, Krawczak M, and **Kayser M** with collaborators. Ascertaining ancestry sensitive markers for investigating geographic differentiation in the European continent. 20th International Congress of Genetics, 12.-17.07.2008, Berlin, Germany

- (29) Pugach I, Matveyev R, López Herráez D, Bauchet M, Nurnberg P, **Kayser M**, and Stoneking M. A genetic record of Australian Aborigines based on large-scale genotyping data. 20th International Congress of Genetics, 12.-17.07.2008, Berlin, Germany
- (30) Ballantyne K, Goedbloed M, Choi Y, Fang R, Furtado MR, **Kayser M**. Moving from male lineage characterization to male individual identification using Y-chromosome DNA analysis. 23rd World Congress International Society for Forensic Genetics, 15.-18.09.2009, Buenos Aires, Argentina
- (31) Visser M, **Kayser M**, Palstra R-J. The human pigmentary phenotype and transcriptional regulation of the human OCA2 gene. 8th Dutch Chromatin Meeting, 26.10.2010, Leiden, The Netherlands
- (32) Ackermann K, Revell VL, Lao O, Rombouts EJ, Skene DJ, **Kayser M**. Acute sleep deprivation affects diurnal rhythmicity in granulocytes. Gordon Research Conference on Chronobiology, 12-17.06.2011, Lucca (Barga), Italy
- (33) Pugach I, Delfin F, Gunnarsdo'ttir E, Wollstein A, **Kayser M**, Reich D, Stoneking M. A genetic record of Australian Aborigines based on large-scale genotyping data. SMBE 2011 – Annual Meeting of the Society for Molecular Biology and Evolution, 26-30.07.2011, Kyoto University, Japan
- (34) Zubakov D, Liu F, Choi Y, van IJken WFJ, Oostra B, van Duijn CM, Lewin J, **Kayser M**. mRNA expression and DNA methylation biomarkers for estimating chronological age from blood. 24th World Congress of the International Society of Forensic Genetics, 29.08.-03.09.2011, Vienna, Austria
- (35) Visser M, Zubakov D, Ballantyne KN, **Kayser M**. mRNA based skin identification. 24th World Congress of the International Society of Forensic Genetics, 29.08.-03.09.2011, Vienna, Austria
- (36) Ballantyne KN, Keerl V, Wollstein A, Choi Y, Zuniga SB, Ralf A, Vermeulen M, de Knijff P, **Kayser M**. Rapidly mutating Y-STRs: Expanding the application of the Y-chromosome for forensic science. 24th World Congress of the International Society of Forensic Genetics, 29.08.-03.09.2011, Vienna, Austria
- (37) Sauer E, Liebrechts-Akkerman G, Vermeulen M, van Duijn K, Courts C, Madea B, **Kayser M**. Potential genetic predispositions for sudden infant death syndrome: a case-control study. 24th World Congress of the International Society of Forensic Genetics, 29.08.-03.09.2011, Vienna, Austria
- (38) Skene DJ, Ackermann K, Revell VL, Lao O, Rombouts EJ, **Kayser M**. Acute sleep deprivation affects diurnal rhythmicity in granulocytes. Worldsleap 2011, 16.-20.10.2011, Kyoto, Japan