

2021

1. Colcombet-Cazenave B, Druart K, Bonnet C, **Petit C**, Spérandio O, Guglielmini J, Wolff N. Phylogenetic analysis of Harmonin homology domains. *BMC Bioinformatics*. 2021 Apr 14;22(1):190. doi: 10.1186/s12859-021-04116-5.
2. Varnet L, Léger AC, Boucher S, Bonnet C, **Petit C**, Lorenzi C. Contributions of Age-related and Audibility-related Deficits to Aided Consonant Identification in Presbycusis: A Causa-Inference Analysis. *Front Aging Neurosci*. 2021 Mar 1; 13:640522. doi: 10.3389/fnagi.2021.640522. eCollection 2021.
3. Amiel AR, Michel V, Carvalho JE, Shkreli M, **Petit C**, Röttinger E. (The sea anemone *Nematostella vectensis*, an emerging model for biomedical research: Mechano-sensitivity, extreme regeneration, and longevity). *Med Sci (Paris)*. 2021 Feb; 37(2):167-177. doi: 10.1051/medsci/2020282.

2020

4. Elrharchi S, Riahi Z, Salime S, Charoute H, Elkhatabi L, Boulouiz R, Kabine M, Bonnet C, **Petit C**, Barakat A. Novel mutation in AIFM1 gene associated with X-linked deafness in a Moroccan family. *Hum Hered*. 2020; 85(1):35-39. doi: 10.1159/000512712.
5. Amalou G, Bonnet C, Riahi Z, Bouzidi A, Elrharchi S, Bousfiha A, Charif M, Kandil M, Lenaers G, **Petit C**, Barakat A. A homozygous MPZL2 deletion is associated with non syndromic hearing loss in a moroccan family. *Int J Pediatr Otorhinolaryngol*. 2021 Jan; 140:110481. doi: 10.1016/j.ijporl.2020.110481.
6. Boucher S, Wong Jun Tai F, Delmaghani S, Lelli A, Singh-Estivalet A, Dupont T, Niasme-Grare M, Michel V, Wolff N, Bahloul A, Bouyacoub Y, Bouccara D, Fraysse B, Deguine O, Collet L, Thai-Van H, Ionescu E, Kemeny J-L, Giraudet F, Lavielle J-P, Devèze A, Roudevitch-Pujol A-L, Vincent C, Renard C, Franco-Vidal V, Thibult-Apt C, Darrouzet V, Bizaguet E, Coez A, Lefevre GM, Michalski N, Aubois A, Avan P, Bonnet C, **Petit C**. Ultra-rare heterozygous pathogenic variants of genes causing dominant forms of early-onset deafness underlie severe presbycusis. *Proc Natl Acad Sci U S A*. 2020 Dec 8;117(49):31278-31289. doi: 10.1073/pnas.2010782117.
7. Postal O, Dupont T, Bakay W, Dominique N, **Petit C**, Michalski N, Gourévitch B. Spontaneous Mouse Behavior in Presence of Dissonance and Acoustic Roughness. *Front Behav Neurosci*. 2020 Oct 8; 14:588834. doi: 10.3389/fnbeh.2020.588834.
8. Michel V, Pepermans E, Boutet de Monvel J, England P, Nouaille S, Aghaie A, Delhommel F, Wolff N, Perfettini I, Hardelin JP, **Petit C***, Bahloul A*. Interaction of the scaffolding protein whirlin with protocadherin-15 supports its anchoring of hair-bundle lateral links in cochlear hair cell. *Sci Rep*. 2020 Oct 2;10(1):16430. doi: 10.1038/s41598-020-73158-1.
9. Ros O, Baudet S, Zagar Y, Loulier K, Roche F, Couvet S, Aghaie A, Atkins M, Louail A, **Petit C**, Metin C, Mechulam Y, Nicol X. SpiCee: A genetic tool for subcellular and cell-specific calcium manipulation. *Cell Rep*. 2020 Jul 21; 32(3):107934. doi: 10.1016/j.celrep.2020.107934.
10. Khateb S, Mohand-Saïd S, Nassisi M, Bonnet C, Roux AF, Andrieu C, Antonio A, Condroyer C, Zeitz C, Devisme C, Loundon N, Marlin S, **Petit C**, Bodaghi B, Sahel JA, Audo I. Phenotypic characteristics of rod-cone dystrophy associated with Myo7A mutations in a large french cohort. *Retina*. 2020 Aug ;40(8) :1603-1615. doi : 10.1097/IAE.
11. Subirà O, Català-Mora J, Díaz-Cascajosa J, Padrón-Pérez N, Claveria MA, Coll-Alsina N, Bonnet C, **Petit C**, Caminal JM, Prat J. Retinal findings in pediatric patients with Usher syndrome Type 1 due to mutation in MYO7A gene. *Eye (Lond)*. 2020 Mar; 34(3):499-506. doi: 10.1038/s41433-019-0536-6.
12. Dahmani M, Talbi S, Ammar-Khodja F, Ouhab S, Boudjenah F, Djebbar M, Bonnet C, **Petit C**. ATP6V1B1 recurrent mutations in Algerian deaf patients associated with renal tubular acidosis. *Int J Pediatr Otorhinolaryngol*. 2020 Feb; 129 :109772. doi: 10.1016/j.ijporl.2019.109772. doi: 10.1016/j.ijporl.2019.109772.
13. Song JS, Bahloul A, **Petit C**, Kim SJ, Moon IJ, Lee J, Ki CS. A Novel Heterozygous Missense Variant (c.667G>T; p.Gly223Cys) in USH1C That Interferes With Cadherin-Related 23 and Harmonin Interaction

2019

14. Zupan A, Fakin A, Battelino S, Jarc-Vidmar M, Hawlina M, Bonnet C, **Petit C**, Glavač D. Clinical and Haplotypic Variability of Slovenian USH2A Patients Homozygous for the c. 11864G>A Nonsense Mutation. *Genes (Basel)*. 2019 Dec 5; 10(12). pii: E1015. doi: 10.3390/genes10121015.
15. Bousfiha A, Riahi Z, Elkhatabi L, Bakhechane A, Charoute H, Snoussi K, Bonnet C, **Petit C**, Barakat A. Further Evidence for the Implication of the MET Gene in Non-Syndromic Autosomal Recessive Deafness. *Hum Hered.* 2019; 84(3):109-116. doi: 10.1159/000503450. Epub 2019 Dec 4.
16. Avan P, Le Gal S, Michel V, Dupont T, Hardelin JP, **Petit C***, Verpy E* (2019). Otogelin, otogelin-like, and stereocilin form links connecting outer hair cell stereocilia to each other and the tectorial membrane. *Proc Natl Acad Sci U S A.* 2019 Dec 17; 116(51):25948-25957. doi: 10.1073/pnas.1902781116. Epub 2019 Nov 27.
17. Fakin A, Šuštar M, Breclj J, Bonnet C, **Petit C**, Zupan A, Glavač D, Jarc-Vidmar M, Battelino S, Hawlina M. Double Hyperautofluorescent Rings in Patients with USH2A-Retinopathy. *Genes (Basel)*. 2019 Nov 21; 10(12). pii: E956. doi: 10.3390/genes10120956.
18. Hadrami M, Bonnet C, Veten F, Zeitz C, Condroyer C, Wang P, Biya M, Sidi Ahmed MA, Zhang Q, Cheikh S, Audo I, **Petit C**, Houmeida A. A novel missense mutation of *GJA8* causes congenital cataract in a large Mauritanian family. *Eur J Ophthalmol.* 2019 Nov; 29(6):621-628. doi: 10.1177/1120672118804757. Epub 2018 Oct 29.
19. Dunbar LA, Patni P, Aguilar C, Mburu P, Corns L, Wells HR, Delmaghani S, Parker A, Johnson S, Williams D, Esapa CT, Simon MM, Chessum L, Newton S, Dorning J, Jeyarajan P, Morse S, Lelli A, Codner GF, Peineau T, Gopal SR, Alagramam KN, Hertzano R, Dulon D, Wells S, Williams FM, **Petit C**, Dawson SJ, Brown SD, Marcotti W, El-Amraoui A, Bowl MR (2019). Clarin-2 is essential for hearing by maintaining stereocilia integrity and function. *EMBO Mol Med.* Sep; 11(9):e10288. doi: 10.15252/emmm.201910288. Epub 2019 Aug 26.
20. Trébeau C, Boutet de Monvel J, Wong Jun Tai F, **Petit C**, Etournay R. DNABarcodeCompatibility: an R-package for optimizing DNA-barcode combinations in multiplex sequencing experiments. *Bioinformatics.* 2019 Aug 1;35(15):2690-2691. doi: 10.1093/bioinformatics/bty1030.
21. Hadrami M, Bonnet C, Zeitz C, Veten F, Biya M, Hamed CT, Condroyer C, Wang P, Sidi MM, Cheikh S, Zhang Q, Audo I, **Petit C**, Houmeida A. (2019) Mutation profile of glaucoma candidate genes in Mauritanian families with primary congenital glaucoma. *Mol Vis.* Jul 13;25:373-381. eCollection 2019.
22. Stingl K, Kurtenbach A, Hahn G, Kernstock C, Hipp S, Zobor D, Kohl S, Bonnet C, Mohand-Saïd S, Audo I, Fakin A, Hawlina M, Testa F, Simonelli F, **Petit C**, Sahel JA, Zrenner E (2019). Full-field electroretinography, visual acuity and visual fields in Usher syndrome: a multicentre European study. *Doc Ophthalmol.* Oct;139(2):151-160. doi: 10.1007/s10633-019-09704-8. Epub 2019 Jul 2.
23. Ros O, Zagar Y, Ribes S, Baudet S, Loulier K, Couvet S, Ladarre D, Aghaie A, Louail A, **Petit C**, Mechulam Y, Lenkei Z, Nicol X (2019). SponGee: A Genetic Tool for Subcellular and Cell-Specific cGMP Manipulation. *Cell Rep.* Jun 25;27(13):4003-4012.e6. doi: 10.1016/j.celrep.2019.05.102.
24. Talbi S, Bonnet C, Boudjenah F, Mansouri MT, **Petit C**, Ammar Khodja F (2019). The spectrum of GJB2 gene mutations in Algerian families with nonsyndromic hearing loss from Sahara and Kabylie regions. *Int J Pediatr Otorhinolaryngol.* Sep; 124:157-160. doi: 10.1016/j.ijporl.2019.05.036. Epub 2019 Jun 4.
25. Sayeb M, Riahi Z, Laroussi N, Bonnet C, Romdhane L, Mkaouar R, Zaouak A, Marrakchi J, Abdesslem G, Messaoud O, Bouchniba O, Ghilane N, Mokni M, Besbes G, Yacoub-Youssef H, **Petit C**, Abdelhak S (2019). A Tunisian family with a novel mutation in the gene *CYP4F22* for lamellar ichthyosis and co-occurrence of hearing loss in a child due to mutation in the *SLC26A4* gene. *Int J Dermatol.* Apr 25. doi: 10.1111/ijd.14452. [Epub ahead of print]
26. Defourny J, Aghaie A, Perfettini I, Avan P, Delmaghani S*, **Petit C.*** (2019) Pejvakin-mediated pexophagy protects auditory hair cells against noise-induced damage. *Proc Natl Acad Sci U S A.* Apr 16;116(16):8010-8017. doi: 10.1073/pnas.1821844116. Epub 2019 Apr 1.

27. Tertrais M, Bouleau Y, Emptoz A, Belleudy S, Sutton RB, **Petit C**, Safieddine S, Dulon D. (2019) Viral transfer of mini-otoferlins partially restores the fast component of exocytosis and uncovers ultrafast endocytosis in auditory hair cells of otoferlin knock-out mice. *J of Neuroscience* Mar 4. pii: 1550-18. doi: 10.1523/JNEUROSCI.1550-18.2018. [Epub ahead of print]
28. Akil O, Dyka F, Calvet C, Emptoz A, Lahlou G, Nouaille S, Boutet de Monvel J, Hardelin JP, Hauswirth WW, Avan P, **Petit C***, Safieddine S*, Lustig LR.* (2019) Dual AAV-mediated gene therapy restores hearing in a DFNB9 mouse model. *Proc Natl Acad Sci U S A*. Feb 19. pii: 201817537. doi: 10.1073/pnas.1817537116. PMID: 30782832
29. Michalski N, **Petit C**. (2019) Genes Involved in the Development and Physiology of Both the Peripheral and Central Auditory Systems. *Annu Rev Neurosci*. 2019 Jan 30. doi: 10.1146/annurev-neuro-070918-050428. [Epub ahead of print] PMID: 30699050
30. Richardson GP, **Petit C**. (2019) Hair-Bundle Links: Genetics as the Gateway to Function. *Cold Spring Harb Perspect Med*. Jan 7. pii: a033142. doi: 10.1101/cshperspect.a033142. doi: 10.1101/cshperspect.a033142.

2018

31. Dulon D, Papal S, Patni P, Cortese M, Vincent PF, Tertrais M, Emptoz A, Tlili A, Bouleau Y, Michel V, Delmaghani S, Aghaie A, Pepermans E, Alegria-Prevot O, Akil O, Lustig L, Avan P, Safieddine S, **Petit C**, El-Amraoui A. (2018) Clarin-1 gene transfer rescues auditory synaptopathy in model of Usher syndrome. *J Clin Invest*. 128(8):3382-3401. doi: 10.1172/JCI94351. Epub 2018 Jul 9.
32. Trouillet A, Dubus E, Dégardin J, Estivalet A, Ivkovic I, Godefroy D, García-Ayuso D, Simonutti M, Sahly I, Sahel JA, El-Amraoui A, **Petit C**, Picaud S. (2018) Cone degeneration is triggered by the absence of USH1 proteins but prevented by antioxidant treatments. *Sci Rep*. 8(1):1968. doi: 10.1038/s41598-018-20171-0.
33. Bouzid A, Smeti I, Dhoubil L, Roche M, Achour I, Khalfallah A, Gibriel AA, Charfeddine I, Ayadi H, Lachuer J, Ghorbel A, **Petit C**, Masmoudi S. (2018) Down-expression of P2RX2, KCNQ5, ERBB3 and SOCS3 through DNA hypermethylation in elderly women with presbycusis. *Biomarkers*. 31:1-10. doi: 10.1080/1354750X.2018.1427795. [Epub ahead of print]
34. Elrharchi S, Riahi Z, Salime S, Nahili H, Rouba H, Kabine M, Bonnet C, **Petit C**, Barakat A. (2018) Two novel homozygous missense mutations identified in the BSND gene in Moroccan patients with Bartter's syndrome. *Int J Pediatr Otorhinolaryngol*. 113:46-50. doi: 10.1016/j.ijporl.2018.07.010. Epub 2018 Jul 10
35. Talbi S, Bonnet C, Riahi Z, Boudjenah F, Dahmani M, Hardelin JP, Wong Jun Tai F, Louha M, Ammar-Khodja F, **Petit C**. (2018) Genetic heterogeneity of congenital hearing impairment in Algerians from the Ghardaïa province. *Int J Pediatr Otorhinolaryngol*. 112:1-5. doi: 10.1016/j.ijporl.2018.06.012. Epub 2018 Jun 12
36. Kurtenbach A, Hahn G, Kernstock C, Hipp S, Zobor D, Stingl K, Kohl S, Bonnet C, Mohand-Saïd S, Sliesoraityte I, Sahel JA, Audo I, Fakin A, Hawlina M, Testa F, Simonelli F, **Petit C**, Zrenner E. (2018) Usher Syndrome and Color Vision. *Curr Eye Res*. 43(10):1295-1301. doi: 10.1080/02713683.2018.1501804. Epub 2018 Jul 30
37. Salime S, Riahi Z, Elrharchi S, Elkhatabi L, Charoute H, Nahili H, Rouba H, Kabine M, Bonnet C, **Petit C**, Barakat A. (2018) A novel mutation in SLITRK6 causes deafness and myopia in a Moroccan family. *Gene*. 659:89-92. doi: 10.1016/j.gene.2018.03.042. Epub 2018 Mar 15
38. Hadrami M, Bonnet C, Veten F, Zeitz C, Condroyer C, Wang P, Biya M, Sidi Ahmed MA, Zhang Q, Cheikh S, Audo I, **Petit C**, Houmeida A. (2018) A novel missense mutation of GJA8 causes congenital cataract in a large Mauritanian family. *Eur J Ophthalmol*. 2018 Oct 29:1120672118804757. doi: 10.1177/1120672118804757
39. Corns L, Johnson S, Roberts T, Ranatunga K, Hendry A, Ceriani F, Safieddine S, Steel K, Forge A, **Petit C**, Furness D, Kros C J., and Marcotti W. (2018) Mechanotransduction is required for establishing and maintaining mature inner hair cells and regulating efferent innervation. *Nature Commun* Oct 1;9(1):4015. doi: 10.1038/s41467-018-06307-w.
40. Trébeau C, Boutet de Monvel J, Wong Jun Tai F, **Petit C**, Eournay R. (2018) DNABarcodeCompatibility: an R-package for optimizing DNA-barcode combinations in multiplex sequencing experiments. *Bioinformatics*. Dec 21. doi: 10.1093/bioinformatics/bty1030. [Epub ahead of print] PMID: 30576403

2017

41. Michalski N, Goutman JD, Auclair SM, Boutet de Monvel J, Tertrais M, Emptoz A, Parrin A, Nouaille S, Guillon M, Sachse M, Ciric D, Bahloul A, Hardelin JP, Sutton RB, Avan P, Krishnakumar SS, Rothman JE,

- Dulon D, Safieddine S, **Petit C.** (2017). Otoferlin acts as a Ca²⁺ sensor for vesicle fusion and vesicle pool replenishment at auditory hair cell ribbon synapses. *Elife*. 6. pii: e31013. doi: 10.7554/eLife.31013.
42. Michel V, Booth KT, Patni P, Cortese M, Azaiez H, Bahloul A, Kahrizi K, Labbé M, Emptoz A, Lelli A, Dégardin J, Dupont T, Aghaie A, Oficjalska-Pham D, Picaud S, Najmabadi H, Smith RJ, Bowl MR, Brown SD, Avan P, **Petit C**, El-Amraoui A. (2017). CIB2, defective in isolated deafness, is key for auditory hair cell mechanotransduction and survival. *EMBO Mol Med*. 9(12):1711-1731. doi: 10.15252/emmm.201708087
43. Delhommel F, Cordier F, Bardiaux B, Bouvier G, Colcombet-Cazenave B, Brier S, Raynal B, Nouaille S, Bahloul A, Chamot-Rooke J, Nilges M, **Petit C**, Wolff N. (2017) Structural Characterization of Whirlin Reveals an Unexpected and Dynamic Supramodule Conformation of Its PDZ Tandem. *Structure*. 25(11):1645-1656.e5. doi: 10.1016/j.str.2017.08.013. Epub 2017 Sep 28.
44. Emptoz A, Michel V, Lelli A, Akil O, Boutet de Monvel J, Lahlou G, Meyer A, Dupont T, Nouaille S, Ey E, Franca de Barros F, Beraneck M, Dulon D, Hardelin JP, Lustig L, Avan P, **Petit C***, Safieddine S*. (2017). Local gene therapy durably restores vestibular function in a mouse model of Usher syndrome type 1G. *Proc Natl Acad Sci U S A*. 114(36):9695-9700. doi: 10.1073/pnas.1708894114. Epub 2017 Aug 23.
45. Libé-Philippot B., Michel V., Boutet de Monvel J., Le Gal S., Dupont T., Avan P., Métin C., Michalski N., **Petit C.** (2017). Auditory cortex interneuron development requires cadherins operating hair-cell mechanoelectrical transduction. *Proc Natl Acad Sci USA*. 114(30):7765-7774. doi: 10.1073/pnas.1703408114. Epub 2017 Jul 13.
46. Bahloul A, Pepermans E, Raynal B, Wolff N, Cordier F, England P, Nouaille S, Baron B, El-Amraoui A, Hardelin JP, Durand D, **Petit C.** (2017). Conformational switch of harmonin, a submembrane scaffold protein of hair cell mechanoelectrical transduction machinery. *FEBS Letters*. 591(15):2299-2310. doi: 10.1002/1873-3468.12729. Epub 2017 Jul 10.
47. Schietroma S., Parain K., Estivalet A., Aghaie A., Boutet de Monvel J., Picaud S., Sahel J-A., Perron M., El-Amraoui A, **Petit C.** (2017). Usher syndrome type 1-associated cadherins shape the photoreceptor outer segment. *J. Cell Biol.* 216 (6):1849-1864. DOI: 10.1083/jcb.201612030
48. Bousfiha A, Bakhchane A, Charoute H, Riahi Z, Snoussi K, Rouba H, Bonnet C, **Petit C**, Barakat A. (2017). A novel PEX1 mutation in a Moroccan family with Zellweger spectrum disorders. *Hum Genome Var.* 4:17009. doi: 10.1038/hgv.2017.9. eCollection 2017.
49. Vincent PF, Bouleau Y, Charpentier G, Emptoz A, Safieddine S, **Petit C**, Dulon D. (2017). Different CaV1.3 Channel Isoforms Control Distinct Components of the Synaptic Vesicle Cycle in Auditory Inner Hair Cells *J Neurosci*. 37(11):2960-2975. doi: 10.1523/JNEUROSCI.2374-16.2017. Epub 2017 Feb 13.
50. Cortese M, Papal S, Pisciotano F, Elgoyhen AB, Hardelin JP, **Petit C**, Franchini LF, El-Amraoui A. (2017). Spectrin β V adaptive mutations and changes in subcellular location correlate with emergence of hair cell electromotility in mammals. *Proc Natl Acad Sci USA*. 114(8):2054-2059. doi: 10.1073/pnas.1618778114. Epub 2017 Feb 8.
51. Testa F, Melillo P, Bonnet C, Marcelli V, de Benedictis A, Colucci R, Gallo B, Kurtenbach A, Rossi S, Marciano E, Auricchio A, **Petit C**, Zrenner E, Simonelli F. (2017). Clinical Presentation And Disease Course Of Usher Syndrome Because Of Mutations In Myo7a Or Ush2a. *Retina*. 37(8):1581-1590. doi: 10.1097/IAE.0000000000001389

2016

52. Abdi S, Bahloul A, Behlouli A, Hardelin JP, Makrelouf M, Boudjelida K, Louha M, Cheknene A, Belouni R, Rous Y, Merad Z, Selmane D, Hasbelaoui M, Bonnet C, Zenati A, **Petit C.** (2016) Diversity of the Genes Implicated in Algerian Patients Affected by Usher Syndrome. *PLoS One*. 11(9):e0161893. doi: 10.1371/journal.pone.0161893.
53. Potter PK, Bowl MR, Jeyarajan P, Wisby L, Blease A, Goldsworthy ME, Simon MM, Greenaway S, Michel V, Barnard A, Aguilar C, Agnew T, Banks G, Blake A, Chessum L, Dorning J, Falcone S, Goosey L, Harris S, Haynes A, Heise I, Hillier R, Hough T, Hoslin A, Hutchison M, King R, Kumar S, Lad HV, Law G, MacLaren RE, Morse S, Nicol T, Parker A, Pickford K, Sethi S, Starbuck B, Stelma F, Cheeseman M, Cross SH, Foster RG, Jackson IJ, Peirson SN, Thakker RV, Vincent T, Scudamore C, Wells S, El-Amraoui A, **Petit C**, Acevedo-Arozena A, Nolan PM, Cox R, Mallon AM, Brown SD. (2016) Novel gene function revealed by mouse mutagenesis screens for models of age-related disease. *Nat Commun*. 7:12444. doi: 10.1038/ncomms12444.
54. Bonnet C, Riahi Z, Chantot-Bastaraud S, Smagghe L, Letexier M, Marcaillou C, Lefèvre GM, Hardelin JP, El-Amraoui A, Singh-Estivalet A, Mohand-Saïd S, Kohl S, Kurtenbach A, Sliesoraityte I, Zobor D, Gherbi S, Testa F, Simonelli F, Banfi S, Fakin A, Glavač D, Jarc-Vidmar M, Zupan A, Battelino S, Martorell Sampol L, Claveria MA, Catala Mora J, Dad S, Møller LB, Rodriguez Jorge J, Hawlina M, Auricchio A, Sahel JA, Marlin S, Zrenner E, Audo I, **Petit C.** (2016). An innovative strategy for the molecular diagnosis of Usher syndrome identifies causal biallelic mutations in 93% of European patients. *Eur J Hum Genet*. 24(12):1730-1738. doi: 10.1038/ejhg.2016.99.

55. Ben-Rebeh I, Grati M, Bonnet C, Bouassida W, Hadjamor I, Ayadi H, Ghorbel A, **Petit C**, Masmoudi S. (2016) Genetic analysis of Tunisian families with Usher syndrome type 1: toward improving early molecular diagnosis. *Mol Vis* 22:827-35.
56. Behlouli A, Bonnet C, Abdi S, Hasbellaoui M, Boudjenah F, Hardelin JP, Louha M, Makrelouf M, Ammar-Khodja F, Zenati A, **Petit C**. (2016) A novel biallelic splice site mutation of TECTA causes moderate to severe hearing impairment in an Algerian family. *Int J Pediatr Otorhinolaryngol*.87:28-33. doi: 10.1016/j.ijporl.2016.04.040.
57. Delmaghani S, Aghaie A, Bouyacoub Y, Elhachimie H, Bonnet C, Riahi Z, Chardenoux S, Perfettini I, Hardelin J-P, Houmeida A, Herbomel P, **Petit C**. (2016). Mutations in CDC14A, encoding a protein phosphatase involved in hair cell ciliogenesis, cause autosomal recessive severe to profound deafness. *Am. J. Hum. Genet*. 98(6):1266-70. doi: 10.1016/j.ajhg.2016.04.015.
58. Zhang QJ, Han B, Lan L, Zong L, Shi W, Wang HY, Xie LY, Wang H, Zhao C, Zhang C, Yin ZF, Wang DY, **Petit C**, Guan J, Wang QJ (2016). High frequency of OTOF mutations in Chinese infants with congenital auditory neuropathy spectrum disorder. *Clin Genet*, DOI: 10.1111/cge.12744.
59. Lelli A, Michel V, Boutet de Monvel J, Perfettini I, Cortese M, Bosch-Grau M, Dupont T, Avan P, El-Amraoui A, **Petit C**. (2016). Class III myosins shape the auditory hair bundles by limiting microvilli and stereocilia growth. *J Cell Biol* 212, 231-44.

2015

60. Ammar-Khodja F, Bonnet C, Dahmani M, Ouhab S, Lefèvre GM, Ibrahim H, Hardelin JP, Weil D, Louha M, **Petit C** (2015). Diversity of the causal genes in hearing impaired Algerian individuals identified by whole exome sequencing. *Mol Genet Genomic Med* 3,189-96.
61. Ben Halim N, Nagara M, Regnault B, Hsouna S, Lasram K, Kefi R, Azaiez H, Khemira L, Saidane R, Ammar SB, Besbes G, Weil D, **Petit C**, Abdelhak S, Romdhane L (2015). Estimation of recent and ancient Inbreeding in a small endogamous Tunisian community through genomic runs of homozygosity. *Ann Hum Genet* 79, 402-17.
62. Dahmani M, Ammar-Khodja F, Bonnet C, Lefèvre GM, Hardelin JP, Ibrahim H, Mallek Z, **Petit C** (2015). *EPS8L2* is a new causal gene for childhood onset autosomal recessive progressive hearing loss. *Orphanet J Rare Dis* 10, 96-100.
63. Delmaghani S, Defourny J, Aghaie A, Beurg M, Dulon D, Thelen N, Perfettini I, Zelles T, Aller M, Meyer A, Emptoz A, Giraudet F, Leibovici M, Dartevelle S, Soubigou G, Thiry M, Vizi ES, Safieddine S, Hardelin JP, Avan P, **Petit C** (2015). Hypervulnerability to sound-exposure through impaired adaptive proliferation of peroxisomes. *Cell* 163, 894-906.
64. Michalski N, **Petit C** (2015). Genetics of auditory mechano-electrical transduction. *Pflügers Arch* 467, 49-72.
65. Pepermans E, **Petit C** (2015). The tip-link molecular complex of the auditory mechano-electrical transduction machinery. *Hear Res* 330, 10-7.
66. Riahi Z, Bonnet C, Zainine R, Lahbib S, Bouyacoub Y, Bechraoui R, Marrakchi J, Hardelin JP, Louha M, Largueche L, Ben Yahia S, Kheirallah M, Elmatri L, Besbes G, Abdelhak S, **Petit C** (2015). Whole exome sequencing identifies mutations in Usher syndrome genes in profoundly deaf Tunisian patients. *PLOS One* 10, e0120584.
67. Vincent PF, Bouleau Y, **Petit C**, Dulon D (2015). Synaptic F-actin network controls otoferlin-dependent exocytosis in auditory inner hair cells. *eLife* 4, 10.7554/eLife.10988.
68. Zong L, Guan J, Ealy M, Zhang Q, Wang D, Wang H, Zhao Y, Shen Z, Campbell CA, Wang F, Yang J, Sun W, Lan L, Ding D, Xie L, Qi Y, Lou X, Huang X, Shi Q, Chang S, Xiong W, Yin Z, Yu N, Zhao H, Wang J, Wang J, Salvi RJ, **Petit C**, Smith RJ, Wang Q (2015). Mutations in apoptosis-inducing factor cause X-linked recessive auditory neuropathy spectrum disorder. *J Med Genet* 52, 523-31.

2014

69. Behlouli A, Bonnet C, Abdi S, Bouaita A, Lelli A, Hardelin JP, Schietroma C, Rous Y, Louha M, Cheknane A, Lebdi H, Boudjelida K, Makrelouf M, Zenati A, **Petit C** (2014). *EPS8*, encoding an actin-binding protein of cochlear hair cell stereocilia, is a new causal gene for autosomal recessive profound deafness. *Orphanet J Rare Dis* 9, 55.
70. El-Amraoui A, **Petit C** (2014). The retinal phenotype of Usher syndrome: pathophysiological insights from animal models. *C R Biologies* 337, 167-77.
71. Kamiya K, Michel V, Giraudet F, Riederer B, Foucher I, Papal S, Perfettini I, Le Gal S, Verpy E, Xia W, Seidler U, Georgescu MM, Avan P, El-Amraoui A, **Petit C** (2014). An unusually powerful mode of low-

frequeny sound interference due to defective hair bundles of the auditory outer hair cells. *Proc Natl Acad Sci USA* 111, 9307-12.

72. Pepermans E, Michel V, Goodyear R, Bonnet C, Abdi S, Dupont T, Gherbi S, Holder M, Makrelouf M, Hardelin JP, Marlin S, Zenati A, Richardson G, Avan P, Bahloul A, **Petit C** (2014). The CD2 isoform of protocadherin-15 is an essential component of the tip-link complex in mature auditory hair cells. *EMBO Mol Med* 6, 984-92.
73. Riahi Z, Bonnet C, Zainine R, Louha M, Bouyacoub Y, Laroussi N, Chargui M, Kefi R, Jonard L, Dorboz I, Hardelin JP, Salah SB, Levilliers J, Weil D, McElreavey K, Boespflug OT, Besbes G, Abdelhak S, **Petit C** (2014). Whole exome sequencing identifies new causative mutations in Tunisian families with nonsyndromic deafness. *PLoS One* 9, e99797.
74. Romdhane L, Ben Halim N, Rejeb I, Kefi R, Bouyacoub Y, Ben Rekaya M, Messai H, Messaoud O, Riahi Z, Bonnet C, Ben Rhouma F, Nagara M, **Petit C**, McElreavey K, Romeo G, Abdelhak S (2014). Specific aspects of consanguinity: some examples from the Tunisian population. *Hum Hered* 77, 167-74.
75. Vincent P, Bouleau Y, Safieddine S, **Petit C**, Dulon D (2014). Exocytotic machineries of vestibular type I and cochlear ribbon synapses display similar intrinsic otoferlin-dependent Ca²⁺ sensitivity but a different coupling to Ca²⁺ channels. *J Neurosci* 34, 10853-69.
76. Wang H, Zhao Y, Yi Y, Gao Y, Liu Q, Wang D, Li Q, Lan L, Li N, Guan J, Yin Z, Han B, Zhao F, Zong L, Xiong W, Yu L, Song L, Yi X, Yang L, **Petit C**, Wang Q (2014). Targeted high-throughput sequencing identifies pathogenic mutations in *KCNQ4* in two large Chinese families with autosomal dominant hearing loss. *PLoS One* 9, e103133.

2013

77. Avan P, Büki B, **Petit C** (2013). Auditory Distortions: Origins and Functions. *Physiol Rev* 93, 1563-619.
78. Bonnet C, Louha M, Loundon N, Michalski N, Verpy E, Smagghe L, Hardelin JP, Rouillon I, Jonard L, Couderc R, Gherbi S, Garabedian EN, Denoyelle F, **Petit C**, Marlin S (2013). Biallelic nonsense mutations in the otogelin-like gene (*OTOGL*) in a child affected by mild to moderate hearing impairment. *Gene* 527, 537-40.
79. Boulay AC, del Castillo FJ, Giraudet F, Hamard G, Giaume C, **Petit C**, Avan P, Cohen-Salmon M (2013). Hearing is normal without connexin30. *J Neurosci* 33, 430-4.
80. El-Amraoui A, **Petit C** (2013). Cadherin defects in inherited human diseases. *Progr Mol Biol Transl Sci* 116, 361-84.
81. Greenspan R, **Petit C** (2013). Neurogenetics. *Curr Opin Neurobiol* 23, 1-2.
82. Lepelletier L, Boutet de Monvel J, Buisson J, Desdouets C, **Petit C** (2013). Auditory hair cell centrioles undergo confined brownian motion throughout the developmental migration of the kinocilium. *Biophys J* 105, 48-58.
83. Meyer A, **Petit C**, Safieddine S (2013). [Gene therapy for human hearing loss: challenges and promises]. *Med Sci (Paris)* 29, 883-9.
84. Papal S, Cortese M, Legendre K, Sorusch N, Dragavon J, Sahly I, Shorte S, Wolfrum U, **Petit C**, El-Amraoui A (2013). The giant spectrin β V couples the molecular motors to phototransduction and Usher syndrome type I proteins along their trafficking route. *Hum Mol Genet* 22, 3773-88.
85. Zhao Y, Zhao F, Zong L, Zhang P, Guan L, Zhang J, Wang D, Wang J, Chai W, Lan L, Li Q, Han B, Yang L, Jin X, Yang W, Hu X, Wang X, Li N, Li Y, **Petit C**, Wang J, Wang HY, Wang Q (2013). Exome sequencing and linkage analysis identified *tenascin-C* (*TNC*) as a novel causative gene in nonsyndromic hearing loss. *PLoS One* 8, e69549.

2012

86. Bonnet C, El-Amraoui A (2012). Usher syndrome (sensorineural deafness and retinitis pigmentosa): pathogenesis, molecular diagnosis and therapeutic approaches. *Curr Opin Neurol* 25, 42-9.
87. Delmaghani S, Aghaïe A, Michalski N, Bonnet C, Weil D, **Petit C** (2012). Defect in the gene encoding the EAR/EPTP domain-containing protein TSPEAR causes DFNB98 profound deafness. *Hum Mol Genet* 21, 3835-44.
88. Fakin A, Glavac D, Bonnet C, **Petit C**, Hawlina M (2012). Fundus autofluorescence and optical coherence tomography in relation to visual function in Usher syndrome type 1 and 2. *Vision Res* 75, 60-70.
89. Lukashkin AN, Legan PK, Weddell TD, Lukashkina VA, Goodyear RJ, Welstead LJ, **Petit C**, Russell IJ, Richardson GP (2012). A mouse model for human deafness DFNB22 reveals that hearing impairment is due to a loss of inner hair cell stimulation. *Proc Natl Acad Sci USA* 109, 19351-6.

90. **Petit C**, El-Amraoui A, Avan P (2012). Audition: Hearing and Deafness. *In* Neuroscience in the 21st Century: From Basic to Clinical. Pfaff DW (ed), Heidelberg: Springer Verlag, pp. 675-741.
91. Safieddine S, El-Amraoui A, **Petit C** (2012). The auditory hair cell ribbon synapse: From assembly to function. *Annu Rev Neurosci* 35, 509-28.
92. Sahly I, Dufour E, Schietroma C, Michel V, Bahloul A, Perfettini I, Pepermans E, Estivalet A, Carette D, Aghaie A, Ebermann I, Lelli A, Iribarne M, Hardelin JP, Weil D, Sahel JA, El-Amraoui A, **Petit C** (2012). Localization of Usher 1 proteins to the photoreceptor calyceal processes, which are absent from mice. *J Cell Biol* 199, 381-99.

2011

93. Bonnet C, Grati Mh, Marlin S, Levilliers J, Hardelin JP, Parodi M, Niasme-Grare M, Zelenika D, D el epine M, Feldmann D, Jonard L, El-Amraoui A, Weil D, Delobel B, Vincent C, Dollfus H, Eliot MM, David A, Calais C, Vigneron J, Montaut B, Bonneau D, Dubin J, Thauvin C, Duvillard A, Francannet C, Mom T, Lacombe D, Duriez F, Drouin-Garraud V, Thuillier-Obstoy MF, Sigaudy S, Frances AM, Collignon P, Challe G, Couderc R, Lathrop M, Sahel JA, Weissenbach J, **Petit C**, Denoyelle F (2011). Complete exon sequencing of all known Usher syndrome genes greatly improves molecular diagnosis. *Orphanet J Rare Dis* 6, 21-39.
94. Caberlotto E, Michel V, Foucher I, Bahloul A, Goodyear RJ, Pepermans E, Michalski N, Perfettini I, Alegria-Prevot O, Chardenoux S, Do Cruzeiro M, Hardelin JP, Richardson GP, Avan P, Weil D, **Petit C** (2011). Usher type 1G protein sans is a critical component of the tip-link complex, a structure controlling actin polymerization in stereocilia. *Proc Natl Acad Sci USA* 108, 5825-30
95. Caberlotto E, Michel V, Boutet de Monvel J, **Petit C** (2011). Coupling of the mechanotransduction machinery and F-actin polymerization in the cochlear hair bundles. *BioArchitecture* 1, 169-74.
96. Reisinger E, Bresee C, Neef J, Nair R, Reuter K, Bulankina A, Nouvian R, Koch M, Buckers J, Kastrup L, Roux I, **Petit C**, Hell SW, Brose N, Rhee JS, Kugler S, Brigande JV, Moser T (2011). Probing the functional equivalence of otoferlin and synaptotagmin 1 in exocytosis. *J Neurosci* 31, 4886-95.
97. Richardson GP, Boutet de Monvel J, **Petit C** (2011). How the genetics of deafness illuminates auditory physiology. *Annu Rev Physiol* 73, 311-34.
98. Verpy E, Leibovici M, Michalski N, Goodyear R, Houdon C, Weil D, Richardson G, **Petit C** (2011). Stereocilin connects outer-hair-cell stereocilia to one another and to the tectorial membrane. *J Comp Neurol* 519, 194-210.

2010

99. Ashmore J, Avan P, Brownell WE, Dallos P, Dierkes K, Fettiplace R, Grosh K, Hackney CM, Hudspeth AJ, Julicher F, Lindner B, Martin P, Meaud J, **Petit C**, Sacchi JR, Canlon B (2010). The remarkable cochlear amplifier. *Hear Res* 266, 1-17.
100. Avan P, **Petit C** (2010). (Withdrawn) Top connectors of the hair bundle are required for waveform distortion and suppression masking but not cochlear amplification. *Hear Res* 266, 3.
101. Bahloul A, Michel V, Hardelin JP, Nouaille S, Hoos S, Houdusse A, England P, **Petit C** (2010). Cadherin-23, myosin VIIa and harmonin, encoded by Usher syndrome type I genes, form a ternary complex and interact with membrane phospholipids. *Hum Mol Genet* 19, 3557-65.
102. Beurg M, Michalski N, Safieddine S, Bouleau Y, Schneggenburger R, Chapman ER, **Petit C**, Dulon D (2010). Control of exocytosis by synaptotagmins and otoferlin in auditory hair cells. *J Neurosci* 30, 13281-13290.
103. Boutet de Monvel J, **Petit C** (2010). Wrapping up stereocilia rootlets. *Cell* 141, 748-50.
104. del Castillo FJ, Cohen-Salmon M, Charollais A, Caille D, Lampe P, Chavier P, Meda P, **Petit C** (2010). Consortin, a trans-Golgi network cargo receptor for the plasma membrane targeting and recycling of connexins. *Hum Mol Genet* 19, 262-75.
105. El-Amraoui A, **Petit C** (2010). Cadherins as targets for genetic diseases. *Cold Spring Harb Perspect Biol* 2, a003095 387-406.
106. El-Amraoui A, **Petit C** (2010). Th erapie cellulaire dans l'oreille interne - Nouveaux d eveloppements et perspectives. *Med Sci (Paris)* 26, 981-85.
107. Etournay R, Lepelletier L, Boutet de Monvel J, Michel V, Cayet N, Leibovici M, Weil D, Foucher I, Hardelin JP, **Petit C** (2010). Cochlear outer hair cells undergo an apical circumference remodeling constrained by the hair bundle shape. *Development* 137, 1373-83.

108. Marlin S, Feldmann D, Nguyen Y, Rouillon I, Loundon N, Jonard L, Bonnet C, Couderc R, Garabedian EN, **Petit C**, Denoyelle F (2010). Temperature-sensitive auditory neuropathy associated with an otoferlin mutation: Deafening fever! *Biochem Biophys Res Commun* 394, 737-742.
109. Wang DY, Wang YC, Weil D, Zhao YL, Rao SQ, Zong L, Ji YB, Liu Q, Li JQ, Yang HM, Shen Y, Benedict-Alderfer C, Zheng QY, **Petit C**, Wang QJ (2010). Screening mutations of *OTOF* gene in Chinese patients with auditory neuropathy, including a familial case of temperature-sensitive auditory neuropathy. *BMC Med Genet* 11, 79.

2009

110. Bahloul A, Simmler MC, Michel V, Leibovici M, Perfettini I, Roux I, Weil D, Nouaille S, Zuo J, Zadro C, Licastro D, Gasparini P, Avan P, Hardelin JP, **Petit C** (2009). Vezatin, an integral membrane protein of adherens junctions, is required for the sound-resilience of cochlear hair cells. *EMBO Mol Med* 1, 125-38.
111. Belguith H, Masmoudi S, Medlej-Hashim M, Chouery E, Weil D, Ayadi H, **Petit C**, Megarbane A (2009). Re-assigning the DFNB33 locus to chromosome 10p11.23-q21.1. *Eur J Hum Genet* 17, 122-4.
112. Dulon D, Safieddine S, Jones SM, **Petit C** (2009). Otoferlin is critical for a highly sensitive and linear calcium dependent exocytosis at vestibular hair cell ribbon synapses. *J Neurosci* 29, 10474-87.
113. Lagresle-Peyrou C, Six EM, Picard C, Rieux-Laucat F, Michel V, Ditadi A, Demerens-de Chappedelaine C, Morillon E, Valensi F, Simon-Stoos KL, Mullikin JC, Noroski LM, Besse C, Wulffraat NM, Ferster A, Abecasis MM, Calvo F, **Petit C**, Candotti F, Abel L, Fischer A, Cavazzana-Calvo M (2009). Human adenylate kinase 2 deficiency causes a profound hematopoietic defect associated with sensorineural deafness. *Nat Genet* 41, 106-11.
114. Legendre K, **Petit C**, El-Amraoui A (2009). La cellule ciliée externe de la cochlée des mammifères: un amplificateur aux propriétés exceptionnelles - (The outer hair cell of the mammalian cochlea: an outstanding amplifier). *Med Sci (Paris)* 25, 117-20.
115. Michalski N, Michel V, Caberlotto E, Lefèvre GM, van Aken AF, Tinevez JY, Bizard E, Houbron C, Weil D, Hardelin JP, Richardson GP, Kros C, Martin P, **Petit C** (2009). Harmonin-b, an actin-binding scaffold protein, is involved in the adaptation of mechano-electrical transduction by sensory hair cells. *Pflügers Arch-Eur J Physiol* 459, 115-30.
116. **Petit C** (2009). Entendre: bases physiologiques de l'audition *In Aux origines du dialogue humain : Parole et musique* Dehaene S, Petit C (eds), Paris: Odile Jacob.
117. **Petit C**, Richardson GP (2009). Linking genes underlying deafness to hair-bundle development and function. *Nat Neurosci* 12, 703-10.
118. Roux I, Hosie S, Johnson SL, Bahloul A, Cayet N, Nouaille S, Kros CJ, **Petit C**, Safieddine S (2009). Myosin VI is required for the proper maturation and function of inner hair cell ribbon synapses. *Hum Mol Genet* 18, 4615-28.

2008

119. Beurg M, Safieddine S, Roux I, Bouleau Y, **Petit C**, Dulon D (2008). Calcium- and otoferlin-dependent exocytosis by immature outer hair cells. *J Neurosci* 28, 1798-803.
120. El-Amraoui A, Bahloul A, **Petit C** (2008). Myosin VII. *In Myosins: A Superfamily of Molecular Motors*, ed. Coluccio LM, pp. 353-73. New York: Springer.
121. Hilgert N, Alasti F, Dieltjens N, Pawlik B, Wollnik B, Uyguner O, Delmaghani S, Weil D, **Petit C**, Danis E, Yang T, Pandelia E, Petersen M, Goossens D, Favero J, Sanati M, Smith R, Van Camp G (2008). Mutation analysis of *TMC1* identifies four new mutations and suggests an additional deafness gene at loci DFNA36 and DFNB7/11. *Clin Genet* 74, 223-32.
122. Jones C, Roper VC, Foucher I, Qian D, Banizs B, **Petit C**, Yoder B, Chen P (2008). Ciliary genes link basal body polarization to planar cell polarity regulation. *Nat Genet* 40, 69-77.
123. Lefèvre G, Michel V, Weil D, Lepelletier L, Bizard E, Wolfrum U, Hardelin JP, **Petit C** (2008). A core cochlear phenotype in *USH1* mouse mutants implicates fibrous links of the hair bundle in its cohesion, orientation and differential growth. *Development* 135, 1427-37.
124. Legendre K, Safieddine S, Küssel-Andermann P, **Petit C**, El-Amraoui A (2008). α II/ β V spectrin bridges the plasma membrane and cortical lattice in the lateral wall of the auditory outer hair cells. *J Cell Sci* 121, 3347-56.
125. Leibovici M, Safieddine S, **Petit C** (2008). Mouse models of human hereditary deafness. *Curr Top Dev Biol* 84, 385-429.

126. **Petit C** (2008). Génétique et Surdit . G n tique et Cerveau : Est-ce que la G n tique d termine notre Sant  et notre Comportement ? Tout est-il d j  jou    la naissance? AFIRNE - 4 me Colloque Franco-Isra lien sur le Cerveau, Paris.
127. Verpy E, Weil D, Leibovici M, Goodyear RJ, Hamard G, Houdon C, Lefevre GM, Hardelin JP, Richardson GP, Avan P, **Petit C** (2008). Stereocilin-deficient mice reveal the origin of cochlear waveform distortions. *Nature* 456, 255-8.
128. Wei D, Levic S, Nie L, Gao WQ, **Petit C**, Jones EG, Yamoah EN (2008). Cells of adult brain germinal zone have properties akin to hair cells and can be used to replace inner ear sensory cells after damage. *Proc Natl Acad Sci USA* 105, 21000-5.
129. Yanicostas C, Ernest S, Dayraud C, **Petit C**, Soussi-Yanicostas N (2008). Essential requirement for zebrafish anosmin-1a in the migration of the posterior lateral line primordium. *Dev Biol* 320, 469-79.

2007

130. Cohen-Salmon M, Regnault B, Cayet N, Caille D, Demuth K, Hardelin JP, Janel N, Meda P, **Petit C** (2007). Connexin30 deficiency causes intrastrial fluid-blood barrier disruption within the cochlear stria vascularis. *Proc Natl Acad Sci USA* 104, 6229-34.
131. Etournay R, Zwaenepoel I, Perfettini I, Legrain P, **Petit C**, El-Amraoui A (2007). Shroom2, a myosin-VIIa- and actin-binding protein, directly interacts with ZO-1 at tight junctions. *J Cell Sci* 120, 2838-50.
132. Hoskins BE, Cramer CH, Silvius D, Zou D, Raymond RM, Orten DJ, Kimberling WJ, Smith RJ, Weil D, **Petit C**, Otto EA, Xu PX, Hildebrandt F (2007). Transcription factor SIX5 is mutated in patients with branchio-otorenal syndrome. *Am J Hum Genet* 80, 800-4.
133. Hyenne V, Souilhol C, Cohen-Tannoudji M, Cereghini S, **Petit C**, Langa F, Maro B, Simmler MC (2007). Conditional knock-out reveals that zygotic vezatin-null mouse embryos die at implantation. *Mech Dev* 124, 449-62.
134. Leveque M, Marlin S, Jonard L, Procaccio V, Reynier P, Amati-Bonneau P, Baulande S, Pierron D, Lacombe D, Duriez F, Francannet C, Mom T, Journal H, Catros H, Drouin-Garraud V, Obstoy MF, Dollfus H, Eliot MM, Faivre L, Duvillard C, Couderc R, Garabedian EN, **Petit C**, Feldmann D, Denoyelle F (2007). Whole mitochondrial genome screening in maternally inherited non-syndromic hearing impairment using a microarray resequencing mitochondrial DNA chip. *Eur J Hum Genet* 15, 1145-55.
135. Michalski N, Michel V, Bahloul A, Lef vre G, Barral J, Yagi H, Chardenoux S, Weil D, Martin P, Hardelin JP, Sato M, **Petit C** (2007). Molecular characterization of the ankle link complex in cochlear hair cells and its role in the hair bundle functioning. *J Neurosci* 27, 6478-88.
136. **Petit C** (2007). Des capteurs artificiels   la perception auditive *In L'homme artificiel, au service de la soci t *. Changeux JP (ed), Paris: Odile Jacob.

2006

137. Albert S, Blons H, Jonard L, Feldmann D, Chauvin P, Loundon N, Sergent-Allaoui A, Houang M, Joannard A, Schmerber S, Delobel B, Leman J, Journal H, Catros H, Dollfus H, Eliot MM, David A, Calais C, Drouin-Garraud V, Obstoy MF, Tran Ba Huy P, Lacombe D, Duriez F, Francannet C, Bitoun P, **Petit C**, Garabedian EN, Couderc R, Marlin S, Denoyelle F (2006). *SLC26A4* gene is frequently involved in nonsyndromic hearing impairment with enlarged vestibular aqueduct in Caucasian populations. *Eur J Hum Genet* 14, 773-9.
138. Delmaghani S, del Castillo FJ, Michel V, Leibovici M, Aghaie A, Ron U, Van Laer L, Ben-Tal N, Van Camp G, Weil D, Langa F, Lathrop M, Avan P, **Petit C** (2006). Mutations in the gene encoding pejvakin, a novel protein expressed in the afferent auditory pathway, cause DFNB59 auditory neuropathy in man and mouse. *Nat Genet* 38, 770-8.
139. Dod  C, Teixeira L, Levilliers J, Fouveaut C, Bouchard P, Kottler ML, Lespinasse J, Lienhardt-Roussie A, Mathieu M, Moerman A, Morgan G, Murat A, Toubanc JE, Wolczynski S, Delpech M, **Petit C**, Young J, Hardelin JP (2006). Kallmann syndrome: mutations in the genes encoding prokineticin-2 and prokineticin receptor-2. *PLOS Genet* 2, e175.
140. **Petit C** (2006). From deafness genes to hearing mechanisms: harmony and counterpoint. *Trends Mol Med* 12, 57-64.
141. Rouillon I, Marcolla A, Roux I, Marlin S, Feldmann D, Couderc R, Jonard L, **Petit C**, Denoyelle F, Garabedian EN, Loundon N (2006). Results of cochlear implantation in two children with mutations in the *OTOF* gene. *Int J Pediatr Otorhinolaryngol* 70, 689-96.

142. Roux I, Safieddine S, Nouvian R, Grati M, Simmler MC, Bahloul A, Perfettini I, Le Gall M, Rostaing P, Hamard G, Triller A, Avan P, Moser T, **Petit C** (2006). Otoferlin, defective in a human deafness form, is essential for exocytosis at the auditory ribbon synapse. *Cell* 127, 277-89.

2005

143. Adato A, Michel V, Kikkawa Y, Reiners J, Alagramam KN, Weil D, Yonekawa H, Wolfrum U, El-Amraoui A, **Petit C** (2005). Interactions in the network of Usher syndrome type 1 proteins. *Hum Mol Genet* 14, 347-56.
144. Adato A, Lefèvre G, Delprat B, Michel V, Michalski N, Chardenoux S, Weil D, El-Amraoui A, **Petit C** (2005). Usherin, the defective protein in Usher syndrome type IIA, is likely to be a component of interstereocilia ankle links in the inner ear sensory cells. *Hum Mol Genet* 14, 3921-32.
145. Cohen-Salmon M, del Castillo FJ, **Petit C** (2005). Connexins responsible for hereditary deafness. The tale unfolds. In: Winterhager E (ed), Gap junctions in development and disease. Berlin, Heidelberg: Springer-Verlag, pp 111-134.
146. del Castillo FJ, Rodríguez-Ballesteros M, Álvarez A, Hutchin T, Leonardi E, de Oliveira CA, Azaiez H, Brownstein Z, Avenarius MR, Marlin S, Pandya A, Shahin H, Siemering KR, Weil D, Wuyts W, Aguirre L, Martín Y, Moreno-Pelayo MA, Villamar M, Avraham KB, Dahl HH, Kanaan M, Nance WE, **Petit C**, Smith RJH, Van Camp G, Sartorato EL, Murgia A, Moreno F, del Castillo I (2005). A novel deletion involving the connexin-30 gene, del(*GJB6-D13S1854*), found in *trans* with mutations in the *GJB2* gene (connexin-26) in subjects with DFNB1 nonsyndromic hearing impairment. *J Med Genet* 42, 588-94.
147. Delprat B, Michel V, Goodyear R, Yamasaki Y, Michalski N, El-Amraoui A, Perfettini I, Legrain P, Richardson G, Hardelin JP, **Petit C** (2005). Myosin XVa and whirlin, two deafness gene products required for hair bundle growth, are located at the stereocilia tips and interact directly. *Hum Mol Genet* 14, 401-10.
148. El-Amraoui A, **Petit C** (2005). Usher I syndrome: unravelling the mechanisms that underlie the cohesion of the growing hair bundle in inner ear sensory cells. *J Cell Sci* 118, 4593-603.
149. Etournay R, El-Amraoui A, Bahloul A, Blanchard S, Roux I, Pezeron G, Michalski N, Daviet L, Hardelin JP, Legrain P, **Petit C** (2005). PHR1, an integral membrane protein of the inner ear sensory cells, directly interacts with myosin 1c and myosin VIIa. *J Cell Sci* 118, 2891-99.
150. Feldmann D, Denoyelle F, Blons H, Lyonnet S, Loundon N, Rouillon I, Hadj-Rabia S, **Petit C**, Couderc R, Garabédian EN, Marlin S (2005). The *GJB2* mutation R75Q can cause non-syndromic hearing loss DFNA3 or hereditary palmoplantar keratoderma with deafness. *Am J Med Genet* 137, 225-7.
151. Hyenne V, Louvet-Vallée S, El-Amraoui A, **Petit C**, Maro B, Simmler MC (2005). Vezatin, a protein associated to adherens junctions, is required for mouse blastocyst morphogenesis. *Dev Biol* 287, 180-91.
152. Leibovici M, Verpy E, Goodyear R, Zwaenepoel I, Blanchard S, Lainé S, Richardson G, **Petit C** (2005). Initial characterization of kinocilin, a protein of the hair cell kinocilium. *Hear Res* 203, 144-53.
153. Loundon N, Marcolla A, Roux I, Rouillon I, Denoyelle F, Feldmann D, Marlin S, Garabedian EN (2005). Auditory neuropathy or endocochlear hearing loss? *Otol Neurotol* 26, 748-54.
154. Marlin S, Feldmann D, Blons H, Loundon N, Rouillon I, Albert S, Chauvin P, Garabédian EN, Couderc R, Odent S, Joannard A, Schmerber S, Delobel B, Leman J, Journal H, Catros H, Lemaréchal C, Dollfuss H, Eliot MM, Delanoy JL, David A, Calais C, Drouin-Garraud V, Obstoy MF, Goizet C, Duriez F, Fellmann F, Hélias J, Vigneron J, Montaut B, Matin-Coignard D, Faivre L, Baumann C, Lewin P, **Petit C**, Denoyelle F (2005). *GJB2* and *GJB6* mutations: genotypic and phenotypic correlation in a large cohort of hearing-impaired patients. *Arch Otol Head Neck Surg* 131, 481-7.
155. Michel V, Goodyear RJ, Weil D, Marcotti W, Perfettini I, Wolfrum U, Kros C, Richardson GP, **Petit C** (2005). Cadherin 23 is a component of the transient lateral links in the developing hair bundles of cochlear sensory cells. *Dev Biol* 280, 281-94.
156. **Petit C** (2005). Inner ear K⁺ homeostasis disorders: what did we learn from the deafness genes? Paper presented at: Proceedings of the 5th international symposium on Ménière's disease and inner ear homeostasis disorders (Los Angeles, CA: House Ear Institute).

2004

157. Blons H, Feldmann D, Duval V, Messaz O, Denoyelle F, Loundon N, Sergout-Allaoui A, Houang M, Duriez F, Lacombe D, Delobel B, Leman J, Catros H, Journal H, Drouin-Garraud V, Obstoy MF, Toutain A, Oden S, Toubanc J, Couderc R, **Petit C**, Garabedian EN, Marlin S (2004). Screening of *SLC26A4* (*PDS*) gene in Pendred's syndrome: a large spectrum of mutations in France and phenotypic heterogeneity. *Clin Genet* 66, 333-40.
158. Cohen-Salmon M, Maxeiner S, Krüger O, Theis M, Willecke K, **Petit C** (2004). Expression of the connexin43- and connexin45-encoding genes in the developing and mature mouse inner ear. *Cell Tissue Res* 316, 15-22.

159. Feldmann D, Denoyelle F, Chauvin P, Garabedian EN, Couderc R, Odent S, Joannard A, Schmerber S, Delobel B, Leman J, Journel H, Catros H, Le Marechal C, Dollfus H, Eliot MM, Delaunoy JP, David A, Calais C, Drouin-Garraud V, Obstoy MF, Bouccara D, Sterkers O, Tran Ba Huy P, Goizet C, Duriez F, Fellmann F, Helias J, Vigneron J, Montaut B, Lewin P, **Petit C**, Marlin S (2004). Large deletion of *GJB6* gene in deaf patients heterozygous for the *GJB2* gene mutation: genotypic and phenotypic analysis. *Am J Med Genet* 127A, 263-7.
160. Feldmann D, Denoyelle F, Loundon N, Weil D, Garabedian EN, Couderc R, Joannard A, Schmerber S, Delobel B, Leman J, Journel H, Catros H, Ferrec C, Drouin-Garraud V, Obstoy MF, Moati L, **Petit C**, Marlin S (2004). Clinical evidence of the non-pathogenic nature of the M34T variant in the connexin26 gene. *Eur J Hum Genet* 12, 279-84.
161. Hardelin JP, Denoyelle F, Levilliers J, Simmler MC, **Petit C** (2004). Les surdités héréditaires: génétique moléculaire. *Med Sci (Paris)* 20, 311-6.
162. Hildebrand MS, de Silva MG, Klockars T, Rose E, Welsh MJ, Price M, Smith RJ, McGuirt W, Christopoulos H, **Petit C**, Dahl HH (2004). Characterization of DRASIC in the mouse inner ear. *Hear Res* 190, 149-60.
163. Masmoudi S, Charfedine I, Ben Rebeh I, Rebai A, Tlili A, Ghorbel AM, Belguith H, **Petit C**, Drira M, Ayadi H (2004). Refined mapping of the autosomal recessive nonsyndromic deafness locus DFNB13 using eight novel microsatellite markers. *Clin Genet* 66, 358-64.
164. Modamio-Hoybjor S, Moreno-Pelayo MA, Mencía A, del Castillo I, Chardenoux S, Morais D, Lathrop M, **Petit C**, Moreno F (2004). A novel locus for autosomal dominant nonsyndromic hearing loss, DFNA50, maps to chromosome 7q32 between the DFNB17 and DFNB13 deafness loci. *J Med Genet* 41, e14.
165. **Petit C** (2004). Memorial lecture - hereditary sensory defects: From genes to pathogenesis. *Am J Med Genet* 130A, 3-7.
166. Ruf RG, Xu P-X, Silvius D, Otto EA, Beekmann F, Muerb UT, Kumar S, Neuhaus TJ, Kemper MJ, Raymond RM, Brophy PD, Berkman J, Gattas M, Hyland V, Ruf EM, Schwartz C, Chang EH, Smith RJH, Stratakis CA, Weil D, **Petit C**, Hildebrandt F (2004). *SIX1* mutations cause branchio-oto-renal syndrome by disruption of EYA1-SIX1-DNA complexes. *Proc Natl Acad Sci USA* 101, 8090-5.
167. Sousa S, Cabanes D, El-Amraoui A, **Petit C**, Lecuit M, Cossart P (2004). Unconventional myosin VIIa and vezatin, two proteins crucial for *Listeria* entry into epithelial cells. *J Cell Sci* 117, 2121-30.

2003

168. Bruzzone R, Veronesi V, Gomès D, Bicego M, Duval N, Marlin S, **Petit C**, D'Andrea P, White TW (2003). Loss-of-function and residual channel activity of *connexin26* mutations associated with non-syndromic deafness. *FEBS Lett* 533, 79-88.
169. del Castillo I, Moreno-Pelayo MA, del Castillo FJ, Brownstein Z, Marlin S, Adina Q, Cockburn DJ, Pandya A, Siemering KR, Chamberlin GP, Ballana E, Wuyts W, Maciel-Guerra AT, Álvarez A, Villamar M, Shohat M, Abeliovich D, Dahl HH, Estivill X, Gasparini P, Hutchin T, Nance WE, Sartorato EL, Smith RJH, Van Camp G, Avraham KB, **Petit C**, Moreno F (2003). Prevalence and evolutionary origins of the del(*GJB6-D13S1830*) mutation in the DFNB1 locus in hearing impaired subjects: a multicentric study. *Am J Hum Genet* 73, 1452-8.
170. Dellovade TL, Hardelin JP, Soussi-Yanicostas N, Pfaff DW, Schwanzel-Fukuda M, **Petit C** (2003). Anosmin-1 immunoreactivity during embryogenesis in a primitive eutherian mammal. *Dev Brain Res* 140, 157-67.
171. Delmaghani S, Aghaie A, Compain-Nouaille S, Ataie A, Lemainque A, Zeinali S, Lathrop M, Weil D, **Petit C** (2003). DFNB40, a recessive form of sensorineural hearing loss, maps at chromosome 22q11.21-12.1. *Eur J Hum Genet* 11, 816-8.
172. Desnos C, Schonn J-S, Huet S, Tran VS, El-Amraoui A, Raposo G, Fanget I, Chapuis C, Ménasché G, de Saint Basile G, **Petit C**, Cribier S, Henry JP, Darchen F (2003). Rab27A and its effector MyRIP link secretory granules to F-actin and control their motion towards release sites. *J Cell Biol* 163, 559-70.
173. Dodé C, Levilliers J, Dupont JM, De Paepe A, Le Dû N, Soussi-Yanicostas N, Coimbra RS, Delmaghani S, Compain-Nouaille S, Baverel F, Pêcheux C, Le Tessier D, Cruaud C, Delpech M, Speleman F, Vermeulen S, Amalfitano A, Bachelot Y, Bouchard P, Cabrol S, Carel JC, Delemarre-van de Waal H, Goulet-Salmon B, Kottler ML, Richard O, Sanchez-Franco F, Saura R, Young J, **Petit C**, Hardelin JP (2003). Loss-of-function mutations in *FGFR1* cause autosomal dominant Kallmann syndrome. *Nature Genet* 33, 463-5.
174. Hardelin JP, Levilliers J, **Petit C** (2003). Deafness: Hereditary. In: Cooper DN (ed), Nature Encyclopedia of the Human Genome. Vol. 1. London, UK: Nature Publishing Group, pp 1065-71.
175. Jawaheer D, Juo S, Le Caignec C, David A, **Petit C**, Gregersen P, Dowbak S, Damle A, McElreavey K, Ostrer H (2003). Mapping a gene for 46,XY gonadal dysgenesis by linkage analysis. *Clin Genet* 63, 530-5.

176. Liu X, Ouyang X, Xia X, Zheng J, Pandya A, Li F, Du L, Welch K, **Petit C**, Smith R, Webb B, Yan D, Arnos K, Corey D, Dallos P, Nance W, Chen Z (2003). Prestin, a cochlear motor protein, is defective in non-syndromic hearing loss. *Hum Mol Genet* 12, 1155-62.
177. Masmoudi S, Tlili A, Majava M, Ghorbel AM, Chardenoux S, Lemainque A, Ben Zina Z, Moala J, Männikkö M, Weil D, Lathrop M, Ala-Kokko L, Drira M, **Petit C**, Ayadi H (2003). Mapping of a new autosomal recessive nonsyndromic hearing loss locus (DFNB32) at chromosome 1p13.3-22.1. *Eur J Hum Genet* 11, 185-8.
178. Mburu P, Mustapha M, Varela A, Weil D, El-Amraoui A, Holme RH, Rump A, Hardisty RE, Blanchard S, Coimbra RS, Perfettini I, Parkinson N, Mallon A-M, Glenister P, Rogers MJ, Paige AJ, Moir L, Clay J, Rosenthal A, Liu XZ, Blanco G, Steel KP, **Petit C**, Brown SDM (2003). Defects in whirlin, a PDZ domain molecule involved in stereocilia elongation, cause deafness in the whirler mouse and families with mutations in *DFNB31*. *Nature Genet* 34, 421-8.
179. Michel V, Hardelin JP, **Petit C** (2003). Molecular mechanism of a frequent genetic form of deafness. *New Engl J Med* 349, 716-7.
180. Modamio-Hoybjor S, Moreno-Pelayo MA, Mencía A, del Castillo I, Chardenoux S, Armenta D, Lathrop M, **Petit C**, Moreno F (2003). A novel locus for autosomal dominant nonsyndromic hearing loss (DFNA44) maps at chromosome 3q28-29. *Hum Genet* 112, 24-8.
181. Moreno-Pelayo MA, Modamio-Hoybjor S, Mencía A, del Castillo I, Chardenoux S, Fernández-Burriel M, Lathrop M, **Petit C**, Moreno F (2003). DFNA49, a novel locus for autosomal dominant nonsyndromic hearing loss, maps proximal to DFNA7/DFNM1 region at chromosome 1q21-q23. *J Med Genet* 40, 832-6.
182. Reiners J, Reidel B, El-Amraoui A, Boëda B, Huber I, **Petit C**, Wolfrum U (2003). Differential distribution of harmonin isoforms and their possible role in Usher-1 protein complexes in mammalian photoreceptor cells. *Invest Ophthalmol Vis Sci* 44, 5006-15.
183. Teubner B, Michel V, Pesch J, Lautermann J, Cohen-Salmon M, Söhl G, Jahnke K, Winterhager E, Herberhold C, Hardelin JP, **Petit C**, Willecke K (2003). Connexin30 (Gjb6)-deficiency causes severe hearing impairment and lack of endocochlear potential. *Hum Mol Genet* 12, 13-21.
184. Waselle L, Coppola T, Fukuda M, Iezzi M, El-Amraoui A, **Petit C**, Regazzi R (2003). Involvement of the Rab27 binding protein Slac2c/MyRIP in insulin exocytosis. *Mol Biol Cell* 14, 4103-13.
185. Weil D, El-Amraoui A, Masmoudi S, Mustapha M, Kikkawa Y, Lainé S, Delmaghani S, Adato A, Nadifi S, Ben Zina Z, Hamel C, Gal A, Ayadi H, Yonekawa H, **Petit C** (2003). Usher syndrome type IG (USH1G) is caused by mutations in the gene encoding SANS, a protein that associates with the USH1C protein, harmonin. *Hum Mol Genet* 12, 463-71.

2002

186. Boëda B, El-Amraoui A, Bahloul A, Goodyear R, Daviet L, Blanchard S, Perfettini I, Fath KR, Shorte S, Reiners J, Houdusse A, Legrain P, Wolfrum U, Richardson G, **Petit C** (2002). Myosin VIIa, harmonin, and cadherin 23, three Usher I gene products, cooperate to shape the sensory hair cell bundle. *EMBO J* 21, 6689-99.
187. Chapiro E, Feldmann D, Denoyelle F, Sternberg D, Jardel C, Eliot MM, Bouccara D, Weil D, Garabédian EN, Couderc R, **Petit C**, Marlin S (2002). Two large French pedigrees with non syndromic sensorineural deafness and the mitochondrial DNA T7511C mutation: evidence for a modulatory factor. *Eur J Hum Genet* 10, 851-6.
188. Cohen-Salmon M, Ott T, Michel V, Hardelin JP, Perfettini I, Eybalin M, Wu T, Marcus DC, Wangemann P, Willecke K, **Petit C** (2002). Targeted ablation of connexin26 in the inner ear epithelial gap junction network causes hearing impairment and cell death. *Curr Biol* 12, 1106-11.
189. Coimbra RS, Weil D, Brottier P, Blanchard S, Levi M, Hardelin JP, Weissenbach J, **Petit C** (2002). A subtracted cDNA library from the zebrafish (*Danio rerio*) embryonic inner ear. *Genome Res* 12, 1007-11.
190. El-Amraoui A, Schonn JS, Küssel-Andermann P, Blanchard S, Desnos C, Henry JP, Wolfrum U, Darchen F, **Petit C** (2002). MyRIP, a novel Rab effector, enables myosin VIIa recruitment to retinal melanosomes. *EMBO Reports* 3, 463-70.
191. Medlej-Hashim M, Mustapha M, Chouery E, Weil D, Parronau J, Salem N, Delague V, Loiselet J, Lathrop M, **Petit C**, Mégarbané A (2002). Non-syndromic recessive deafness in Jordan: mapping of a new locus at chromosome 9q34.3 and prevalence of *DFNB1* mutations. *Eur J Hum Genet* 10, 391-94.
192. Mirghomizadeh F, Pfister M, Apaydin F, **Petit C**, Kupka S, Pusch CM, Zenner HP, Blin N (2002). Substitutions in the conserved C2C domain of otoferlin cause DFNB9, a form of nonsyndromic autosomal recessive deafness. *Neurobiol of Disease* 10, 157-64.

193. Mustapha M, Chouery E, Chardenoux S, Naboulsi M, Paronnaud J, Lemainque A, Mégarbané A, Loiselet J, Weil D, Lathrop M, **Petit C** (2002). DFNB31, a recessive form of sensorineural hearing loss, maps at chromosome 9q32-34. *Eur J Hum Genet* 10, 210-2.
194. Mustapha M, Chouery I, Torchard-Pagnez D, Nouaille S, Kraiss A, Sayeg FN, Mégarbané A, Loiselet J, Lathrop M, **Petit C**, Weil D (2002). A novel locus for Usher syndrome type I, USH1G, maps to chromosome 17q24-25. *Hum Genet* 110, 348-50.
195. Ouyang XM, Xia XJ, Verpy E, Du LL, Pandya A, **Petit C**, Balkany T, Nance WE, Liu XZ (2002). Mutations in the alternatively spliced exons of *USH1C* cause non-syndromic recessive deafness. *Hum Genet* 111, 26-30.
196. Soussi-Yanicostas N, de Castro F, Julliard AK, Perfettini I, Chédotal A, **Petit C** (2002). Anosmin-1, defective in the X-linked form of Kallmann syndrome, promotes axonal branch formation from olfactory bulb output neurons. *Cell* 109, 217-28.
197. Zwaenepoel I, Mustapha M, Leibovici M, Verpy E, Goodyear R, Liu XZ, Nouaille S, Nance WE, Kanaan M, Avraham KB, Tekaiia F, Loiselet J, Lathrop M, Richardson G, **Petit C** (2002). Otoancorin, an inner ear protein restricted to the interface between the apical surface of sensory epithelia and their overlying acellular gels, is defective in autosomal recessive deafness DFNB22. *Proc Natl Acad Sci USA* 99, 6240-5.

2001

198. Ben Zina Z, Masmoudi S, Ayadi H, Chaker F, Ghorbel AM, Drira M, **Petit C** (2001). From DFNB2 to Usher syndrome: variable expressivity of the same disease. *Am J Med Genet* 101, 181-3.
199. Boëda B, Weil D, **Petit C** (2001). A specific promoter of the sensory cells of the inner ear defined by transgenesis. *Hum Mol Genet* 10, 1581-9.
200. Bruzzone R, Gomès D, Denoyelle F, Duval N, Perea J, Veronesi V, Weil D, **Petit C**, Gabellec MM, D'Andrea P, White TW (2001). Functional analysis of a dominant mutation of human *connexin26* associated with nonsyndromic deafness. *Cell Commun Adhes* 8, 425-31.
201. El-Amraoui A, Cohen-Salmon M, **Petit C**, Simmler MC (2001). Spatiotemporal expression of otogelin in the developing and adult mouse inner ear. *Hearing Res* 158, 151-9.
202. Gillespie PG, Albanesi JP, Bahler M, Bement WM, Berg JS, Burgess DR, Burnside B, Cheney RE, Corey DP, Coudrier E, De Lanerolle P, Hammer JA, Hasson T, Holt JR, Hudspeth AJ, Ikebe M, Kendrick-Jones J, Korn ED, Li R, Mercer JA, Milligan RA, Mooseker MS, Ostap EM, **Petit C**, Pollard TD, Sellers JR, Soldati T, Titus MA (2001). Myosin-I nomenclature *J Cell Biol* 155, 703-4.
203. Kalatzis V, **Petit C** (2001). Hereditary hearing loss *In*: Reeve ECR (ed), Encyclopedia of genetics, London, UK: Fitzroy Dearborn, pp 492-9.
204. Marlin S, Garabédian EN, Roger G, Moatti L, Matha N, Lewin P, **Petit C**, Denoyelle F (2001). Connexin26 gene mutations in congenitally deaf children: Pitfalls for genetic counselling. *Arch Otolaryngol Head Neck Surg* 127, 927-33.
205. Mustapha M, Salem N, Delague V, Chouery E, Ghassibeh M, Rai M, Loiselet J, **Petit C**, Megarbane A (2001). Autosomal recessive non-syndromic hearing loss in the Lebanese population: prevalence of the 30delG mutation and report of two novel mutations in the connexin 26 (*GJB2*) gene. *J Med Genet* 38, E36.
206. **Petit C** (2001). Usher syndrome: from genetics to pathogenesis. *Annu Rev Genomics Hum Genet* 2, 271-97.
207. **Petit C**, Levilliers J, Hardelin JP (2001). Molecular genetics of hearing loss. *Annu Rev Genet* 35, 589-646.
208. **Petit C**, Levilliers J, Marlin S, Hardelin JP (2001). Hereditary hearing loss *In*: Scriver CR, Beaudet AL, Sly WS, Valle D (eds), The metabolic and molecular bases of inherited disease Vol IV USA: McGraw-Hill, pp 6281-328.
209. Verpy E, Masmoudi S, Zwaenepoel I, Leibovici M, Hutchin TP, del Castillo I, Nouaille S, Blanchard S, Lainé S, Popot JL, Moreno F, Mueller RF, **Petit C** (2001). Mutations in a new gene encoding a protein of the hair bundle cause non-syndromic deafness at the DFNB16 locus. *Nature Genet* 29, 345-9.
210. Zwaenepoel I, Verpy E, Blanchard S, Meins M, Apfelstedt-Sylla E, Gal A, **Petit C** (2001). Identification of three novel mutations in the *USH1C* gene and detection of thirty-one polymorphisms used for haplotype analysis. *Hum Mutat* 17, 34-41

2000

211. Adato A, Raskin L, **Petit C**, Bonn -Tamir B (2000). Deafness heterogeneity in a Druze isolate from the Middle East: novel *OTOF* and *PDS* mutations, low prevalence of *GJB2* 35delG mutation and indication for a new DFNB locus *Eur J Hum Genet* 8, 437-42.

212. Ardouin O, Legouis R, Fasano L, David-Watine B, Korn H, Hardelin JP, **Petit C** (2000). Characterization of the two zebrafish orthologues of the *KAL-1* gene underlying X chromosome-linked Kallmann syndrome. *Mech Dev* 90, 89-94.
213. Ben Arab S, Hmani M, Denoyelle F, Boulila-Elgaïed A, Chardenoux S, Hachicha S, **Petit C**, Ayadi H (2000). Mutations of *GJB2* in three geographic isolates from northern Tunisia: evidence for genetic heterogeneity within isolates *Clin Genet* 57, 439-43.
214. Casademont I, Chevrier D, Denoyelle F, **Petit C**, Guesdon JL (2000). A simple and reliable method for the detection of the 30delG mutation of the *CX26* gene. *Mol Cell Probes* 14, 149-52.
215. Cohen-Salmon M, Frenz D, Liu W, Verpy E, Voegelings S, **Petit C** (2000). Fdp , a new fibrocyte-derived protein related to *MIA/CD-RAP*, has an *in vitro* effect on the early differentiation of the inner ear mesenchyme. *J Biol Chem* 275, 40036-41.
216. Denoyelle F, Weil D, Levilliers J, **Petit C** (2000). *DFNA3* In: Kitamura K, Steel KP (eds), *Advances in Oto-Rhino-Laryngology Vol 56: Genetics in Oto-Rhino-Laryngology* Basel: Karger, SA, 78-83.
217. Denoyelle F, Marlin S, **Petit C**, Garabédian EN (2000). Surdités neurosensorielles d'origine génétique. *La Revue du Praticien* 50, 146-9.
218. Ernest S, Rauch GJ, Haffter P, Geisler R, **Petit C**, Nicolson T (2000). *Mariner* is defective in *myosin VIIA*: a zebrafish model for human hereditary deafness. *Hum Mol Genet* 9, 2189-96.
219. Hardelin JP, Soussi-Yanicostas N, Ardouin O, Levilliers J, **Petit C** (2000). Kallmann syndrome In: Kitamura K, Steel KP (eds), *Advances in Oto-Rhino-Laryngology Vol 56: Genetics in Oto-Rhino-Laryngology* Basel: Karger, SA, 268-74.
220. Kalatzis V, **Petit C** (2000). Branchio-oto-renal syndrome In: Kitamura K, Steel KP (eds), *Advances in Oto-Rhino-Laryngology Vol 56: Genetics in Oto-Rhino-Laryngology* Basel: Karger, SA, 39-44.
221. Kharkovets T, Hardelin JP, Safieddine S, Schweizer M, El-Amraoui A, **Petit C**, Jentsch TJ (2000). *KCNQ4*, a K^+ -channel mutated in a form of dominant deafness, is expressed in the inner ear and in the central auditory pathway. *Proc Natl Acad Sci USA* 97, 4333-8.
222. Küssel-Andermann P, El-Amraoui A, Safieddine S, Hardelin JP, Nouaille S, Camonis J, **Petit C** (2000). Unconventional myosin VIIA is a novel A-kinase anchoring protein. *J Biol Chem* 275, 29654-9.
223. Küssel-Andermann P, El-Amraoui A, Safieddine S, Nouaille S, Perfettini I, Lecuit M, Cossart P, Wolfrum U, **Petit C** (2000). Vezatin, a novel transmembrane protein, bridges myosin VIIA to the cadherin/catenins complex. *EMBO J* 19, 6020-9.
224. Masmoudi S, Elgaïed-Boulila A, Kassab I, Ben Arab S, Blanchard S, Bouzouita J, Drira M, Kassab A, Hachicha S, **Petit C**, Ayadi H (2000). Determination of the frequency of connexin26 mutations in inherited sensorineural deafness and carrier rates in the Tunisian population using DGGE. *J Med Genet* 37, E39.
225. **Petit C** (2000). Contribution de la génétique humaine à la compréhension des systèmes sensoriels (Unravelling the sensory systems: contribution of human hereditary defects). *Bull Acad Natl Med* 184, 1383-90.
226. **Petit C**, Weil D (2000). Human hereditary deafness In: *Encyclopedia of Life Sciences* London: Macmillan Ref Ltd, Stockton Press.
227. Simmler MC, Cohen-Salmon M, El-Amraoui A, Guillaud L, Benichou JC, **Petit C**, Panthier JJ (2000). Targeted disruption of *Otogelin* results in deafness and severe imbalance. *Nature Genet* 24, 139-43.
228. Simmler MC, Zwaenepoel I, Verpy E, Guillaud L, Elbaz C, **Petit C**, Panthier JJ (2000). Twister mutant mice are defective for otogelin, a component specific to inner ear acellular membranes. *Mamm Genome* 11, 961-6.
229. Verpy E, Leibovici M, Zwaenepoel I, Liu XZ, Gal A, Salem N, Mansour A, Blanchard S, Kobayashi I, Keats BJ, Slim R, **Petit C** (2000). A defect in harmonin, a PDZ domain-containing protein expressed in the inner ear sensory hair cells, underlies Usher syndrome type 1C. *Nature Genet* 26, 51-5.
230. Yasunaga S, **Petit C** (2000). Physical map of the region surrounding the *OTOFERLIN* locus on chromosome 2p22-23. *Genomics* 66, 110-2.
231. Yasunaga S, Grati M, Chardenoux S, Smith TN, Friedman TB, Lalwani AK, Wilcox ER, **Petit C** (2000). *OTOF* encodes multiple long and short isoforms: genetic evidence that the long ones underlie the recessive deafness DFNB9. *Am J Hum Genet* 67, 591-600.
232. Yasunaga S, Grati M, **Petit C** (2000). DFNB9 and DFNB12 In: Kitamura K, Steel KP (eds), *Advances in oto-rhino-laryngology Vol 56: Genetics in oto-rhino-laryngology* Basel: Karger, SA, 164-7.

233. Cohen-Salmon M, Mattei MG, **Petit C** (1999). Mapping of the otogelin gene (*OTGN*) to mouse chromosome 7 and human chromosome 11p143: a candidate for human autosomal recessive nonsyndromic deafness DFNB18. *Mamm Genome* 10, 520-2.
234. Denoyelle F, Marlin S, Weil D, Moatti L, Garabédian EN, **Petit C** (1999). Clinical features of the prevalent form of childhood deafness, DFNB1, due to a connexin26 gene defect: implications for genetic counselling. *Lancet* 353, 1298-1303.
235. Hardelin JP, Julliard KA, Moniot B, Soussi-Yanicostas N, Verney C, Schwanzel-Fukuda M, Ayer-Le Lièvre C, **Petit C** (1999). Anosmin-1 is a regionally restricted component of basement membranes and interstitial matrices during organogenesis: implications for the developmental anomalies of X chromosome-linked Kallmann syndrome. *Dev Dyn* 215, 26-44.
236. Hmani M, Gorbil M, Boulila-Elgaied A, Ben Zina Z, Kammoun W, Drira M, Chaabouni M, **Petit C**, Ayadi H (1999). A novel locus for Usher syndrome type II, USH2B, maps to chromosome 3 at p23-242. *Eur J Hum Genet* 7, 363-7.
237. Kalatzis V, **Petit C** (1999). Branchio-otic syndromes imbroglia. *Am J Med Genet* 82, 440-441.
238. Kubisch C, Schroeder BC, Friedrich T, Lütjohann B, El-Amraoui A, Marlin S, **Petit C**, Jentsch TJ (1999). *KCNQ4*, a novel potassium channel expressed in sensory outer hair cells, is mutated in dominant deafness. *Cell* 96, 437-46.
239. Marlin S, Blanchard S, Slim R, Lacombe D, Denoyelle F, Alessandri JL, Calzolari E, Drouin-Garraud V, Ferraz FG, Fourmaintraux A, Philip N, Toublanc JE, **Petit C** (1999). Townes-Brocks syndrome: detection of a *SALL1* mutation hot spot and evidence for a position effect in one patient. *Hum Mutat* 14, 377-86.
240. Marlin S, Moatti L, Garabédian EN, Denoyelle F, **Petit C** (1999). La forme de surdit e cong enitale due   l'atteinte du g ne de la connexine 26, est une des maladies g n tiques les plus fr quentes *Rev Internat P diatr* XXX, 47-9.
241. Mustapha M, Weil D, Chardenoux S, Elias S, El-Zir E, Beckmann J, Loiselet J, **Petit C** (1998). An α -tectorin gene defect causes a newly identified autosomal recessive form of sensorineural pre-lingual non-syndromic deafness, DFNB21. *Hum Mol Genet* 8, 409-12.
242. Sahly I, Andermann P, **Petit C** (1999). The zebrafish *eya1* gene and its expression pattern during embryogenesis. *Dev Genes Evol* 209, 399-410.
243. Verpy E, Leibovici M, **Petit C** (1999). Characterization of otoconin-95, the major protein of murine otoconia, provides new insights into the formation of these inner ear biominerals. *Proc Natl Acad Sci USA* 96, 529-34.
244. Yasunaga S, Grati M, Cohen-Salmon M, El-Amraoui A, Mustapha M, Salem N, El-Zir E, Loiselet J, **Petit C** (1999). A mutation in *OTOF*, encoding otoferlin, a FER-1 like protein, causes DFNB9, a nonsyndromic form of deafness. *Nature Genet* 21, 363-9.

1998

245. Denoyelle F, Lina-Granade G, Plauchu H, Bruzzone R, Cha b H, Levi-Acobas F, Weil D, **Petit C** (1998). Connexin26 gene linked to a dominant deafness. *Nature* 393, 319-20.
246. Dod e C, Weil D, Levilliers J, Crozet F, Cha b H, Levi-Acobas F, Guilford P, **Petit C** (1998). Sequence characterization of a newly identified human alpha-tubulin gene (*TUBA2*) *Genomics* 47, 125-30.
247. Drira M, Ghorbel A, Gou a M, Boulila-ElGa ed A, Fourati N, **Petit C**, Ayadi H (1998). Etude clinique et g n tique des surdit es h r ditaires. *J F ORL* 47, 48-53.
248. Hardelin JP, Levilliers J, Soussi-Yanicostas N, Adbelhak S, Kalatzis V, Cohen-Salmon M, **Petit C** (1998). Approche mol culaire de la pathog nie des anomalies r nales dans le syndrome de Kallmann de Morsier et dans le syndrome branchio-oto-r nal. Actualit s N phrologiques Jean Hamburger, Paris Gr nefeld JP, Bach JF, Kreis H, eds *M decine-Sciences Flammarion* 333-40.
249. Hardelin JP, Soussi-Yanicostas N, Levilliers J, Kalatzis V, Adbelhak S, Cohen-Salmon M, **Petit C** (1998). Molecular approach to the pathogenesis of renal anomalies in Kallmann's syndrome and in the branchio-oto-renal syndrome. In: Gr nefeld JP, Bach JF, Kreis H, Maxwell MH (eds), *Advances in Nephrology Vol 28 Paris: Mosby, Year Book*, pp 419-28.
250. Kalatzis V, Sahly I, El-Amraoui A, **Petit C** (1998). *Eya1* expression in the developing ear and kidney: towards the understanding of the pathogenesis of branchio-oto-renal (BOR) syndrome. *Dev Dyn* 213, 486-99.
251. Kalatzis V, **Petit C** (1998). The fundamental and medical impacts of recent progress in research on hereditary hearing loss. *Hum Mol Genet* 7, 1589-97.
252. Marlin S, Denoyelle F, Garab dian EN, **Petit C** (1998). Diagnostic  tiologique des surdit es de perception de l'enfant Bilan d'un an de consultation de conseil g n tique des surdit es. *Ann Otolaryngol Chir Cervicofac* 115, 3-8.

253. Marlin S, Denoyelle F, Busquet D, Garabédian N, **Petit C** (1998). A particular case of deafness-oligodontia syndrome. *Int J Pediatr Otorhinolaryngol* 44, 63-9.
254. Marlin S, Toubblanc JE, **Petit C** (1998). Two cases of Townes-Brocks syndrome with previously undescribed anomalies. *Clin Dysmorphol* 7, 295-8.
255. Mustapha M, Chardenoux S, Nieder A, Salem N, Weissenbach J, El-Zir E, Loiselet J, **Petit C** (1998). A sensorineural progressive autosomal recessive form of isolated deafness, DFNB13, maps at chromosome. 7q34-q36 *Eur J Hum Genet* 6, 245-50.
256. Mustapha M, Salem N, Weil D, El-Zir E, Loiselet J, **Petit C** (1998). Identification of a locus at chromosome 7q31, DFNB14, responsible for prelingual sensorineural non-syndromic deafness. *Eur J Hum Genet* 6, 548-55.
257. Saouda M, Mansour A, Bou Moglabey Y, El-Zir E, Mustapha M, Chaïb H, Nehmé A, Mégarbané A, Loiselet J, **Petit C**, Slim R (1998). The Usher syndrome in the Lebanese population and further refinement of the USH2A candidate region. *Hum Genet* 103, 193-8.
258. Soussi-Yanicostas N, Faivre-Sarrailh C, Hardelin JP, Levilliers J, Rougon G, **Petit C** (1998). Anosmin-1 underlying the X chromosome-linked Kallmann syndrome is an adhesive molecule that can modulate neurite growth in a cell-type specific manner *J Cell Sci* 111, 2953-65.

1997

259. Abdelhak S, Kalatzis V, Heilig R, Compain S, Samson D, Vincent C, Weil D, Cruaud C, Sahly I, Leibovici M, Bitner-Glindzicz M, Francis M, Lacombe D, Vigneron J, Charachon R, Boven K, Bedbeder P, Van Regemorter N, Weissenbach J, **Petit C** (1997). A human homologue of the *Drosophila eyes absent* gene underlies branchio-oto-renal (BOR) syndrome and identifies a novel gene family. *Nature Genet* 15, 157-64.
260. Abdelhak S, Kalatzis V, Heilig R, Compain S, Samson D, Vincent C, Levi-Acobas F, Cruaud C, Le Merrer M, Mathieu M, König R, Vigneron J, Weissenbach J, **Petit C**, Weil D (1997). Clustering of mutations responsible for branchio-oto-renal (BOR) syndrome in the *eyes absent* homologous region (*eyaHR*) of *EYA1*. *Hum Mol Genet* 6, 2247-55.
261. Adato A, Weil D, Kalinski H, Pel-Or Y, **Petit C**, Korostishevsky M, Bonn -Tamir B (1997). Mutation profile of all 49 exons of the human myosin VIIA gene and haplotype analysis in Usher 1B families from diverse origins. *Am J Hum Genet* 61, 813-21.
262. Boulila-Elga ed A, Masmoudi S, Drira M, Gouia M, Chaïb H, **Petit C**, Ayadi H (1997). Contribution of DFNB1 and DFNB2 loci to neurosensory deafness, in affected Tunisian families. *Arch Inst Pasteur (Tunis)* 74, 5-8.
263. Chaïb H, Kaplan J, Gerber S, Vincent C, Ayadi H, Slim R, Munnich A, Weissenbach J, **Petit C** (1997). A newly identified locus for Usher syndrome type I, USH1E, maps at chromosome 21q21. *Hum Mol Genet* 6, 27-31.
264. Cohen-Salmon M, Crozet F, Rebillard G, **Petit C** (1997). Cloning and characterization of the mouse collapsin response mediator protein-1, Crmp1. *Mamm Genome* 8, 349-51.
265. Cohen-Salmon M, El-Amraoui A, Leibovici M, **Petit C** (1997). Otogelin: a glycoprotein specific to the acellular membranes of the inner ear. *Proc Natl Acad Sci USA* 94, 14450-5.
266. Crozet F, El-Amraoui A, Blanchard S, Lenoir M, Ripoll C, Vago P, Hamel C, Fizames C, Levi-Acobas F, Dep tris D, Mattei MG, Weil D, Pujol R, **Petit C** (1997). Cloning of the genes encoding two murine and human cochlear unconventional type I myosins. *Genomics* 40, 332-41.
267. Denoyelle F, Weil D, Maw MA, Wilcox SA, Lench NJ, Allen-Powell DR, Osborn AH, Dahl HH, Middleton A, Houseman MJ, Dod  C, Marlin S, Boulila-ElGa ed A, Grati M, Ayadi H, BenArab S, Bitoun P, Lina-Granade G, Godet J, Mustapha M, Loiselet J, El-Zir E, Aubeis A, Joannard A, Levilliers J, Garab dian EN, Mueller RF, Gardner RJ, **Petit C** (1997). Prelingual deafness : high prevalence of a 30delG mutation in the connexin 26 gene. *Hum Mol Genet* 6, 2173-7.
268. El-Amraoui A, **Petit C** (1997). Towards a molecular understanding of the pathophysiology of Usher syndrome. *J Audiol Med* 6, 170-84.
269. L vy G, Levi-Acobas F, Blanchard S, Gerber S, Larget-Piet D, Chenal V, Liu XZ, Newton V, Steel KP, Brown SD, Munnich A, Kaplan J, **Petit C**, Weil D (1997). Myosin VIIA gene: heterogeneity of the mutations responsible for Usher syndrome type IB. *Hum Mol Genet* 6, 111-6.
270. Neyroud N, Tesson F, Denjoy I, Leibovici M, Donger C, Barhanin J, Faur  S, Gary F, Coumel P, **Petit C**, Schwartz K, Guicheney P (1997). A novel mutation in the potassium channel gene *KVLQT1* causes the Jervell and Lange-Nielsen cardioauditory syndrome. *Nature Genet* 15, 186-9.
271. **Petit C** (1997). Isolement du g ne responsable du syndrome branchio-oto-r nal et identification d'une nouvelle famille de g nes impliqu s dans le d veloppement. *M decine/Sciences* 13, 231.

272. **Petit C** (1997). Déficiets héréditaires de l'audition chez l'enfant. *Bull Audiophonol (Ann Sc Univ Fr-C)* XIII, 209-18.
273. **Petit C** (1997). Bases moléculaires des surdités héréditaires de l'enfant *In Rencontres IPSEN en ORL*, vol 1 Christen Y, Collet L, Droy-Lefaix MT, eds Irvinn, Paris pp 25-38.
274. Sahly I, El-Amraoui A, Abitbol M, **Petit C**, Dufier JL (1997). Expression of myosin VIIA during mouse embryogenesis. *Anat Embryol* 196, 159-70.
275. Schiebel K, Winkelmann M, Mertz A, Xu X, Page DC, Weil D, **Petit C**, Rappold G (1997). Abnormal XY interchange between a novel isolated protein kinase gene, *PRKY*, and its homologue, *PRKX*, accounts for one third of all (Y+)XX males and (Y-)XY females. *Hum Mol Genet* 6, 1985-9.
276. Vincent C, Kalatzis V, Abdelhak S, Chaïb H, Compain S, Helias J, Vanecloo FM, **Petit C** (1997). BOR and BO syndromes are allelic defects of *EYA1*. *Eur J Hum Genet* 5, 242-6.
277. Weil D, Küssel P, Blanchard S, Lévy G, Levi-Acobas F, Drira M, Ayadi H, **Petit C** (1997). The autosomal recessive isolated deafness, DFNB2, and the Usher 1B syndrome are allelic defects of the myosin-VIIA gene. *Nature Genet* 16, 191-3.

1996

278. Ayadi H, Belkahia A, Ben Arab S, Chaïb H, Chardenoux S, Compain S, Dodé C, Drira M, El Zir E, Kalatzis V, Levilliers J, Loiselet J, Marlin S, Place C, Salem N, Vincent C, **Petit C** (1996). Déficiets héréditaires de l'audition chez l'enfant. *Ann Inst Pasteur, actual* 6, 304-9.
279. Chaïb H, Place C, Salem N, Chardenoux S, Vincent C, Weissenbach J, El Zir E, Loiselet J, **Petit C** (1996). A gene responsible for a sensorineural nonsyndromic recessive deafness maps at chromosome 2p22-23. *Hum Mol Genet* 5, 155-8.
280. Chaïb H, Place C, Salem N, Dodé C, Chardenoux S, Weissenbach J, El Zir E, Loiselet J, **Petit C** (1996). Mapping of DFNB12, a gene for a non-syndromal autosomal recessive deafness, at chromosome 10q21-22. *Hum Mol Genet* 5, 1061-4.
281. El-Amraoui A, Sahly I, Picaud S, Sahel J, Abitbol M, **Petit C** (1996). Human Usher IB/mouse *shaker-1*; the retinal phenotype discrepancy explained by the presence/absence of myosin VIIA in the photoreceptor cells. *Hum Mol Genet* 5, 1171-8.
282. Kalatzis V, Abdelhak S, Compain S, Vincent C, **Petit C** (1996). Characterisation of a translocation-associated deletion defines the candidate region for the gene responsible for branchio-oto-renal syndrome. *Genomics* 34, 422-5.
283. **Petit C** (1996). Autosomal recessive non-syndromal hearing loss *In Genetics and hearing impairment* Martini A Read, AP, Stephens, D, editors Whurr, London 197-212.
284. **Petit C** (1996). Genes responsible for human hereditary deafness: symphony of a thousand. *Nature Genet* 14, 385-91.
285. **Petit C** (1996). Bases moléculaires des déficiets neurosensoriels chez l'homme. *Ann Méd Int* 6, 449-452
286. Schwanzel-Fukuda M, Crossin KL, Pfaff DW, Bouloux PM, Hardelin JP, **Petit C** (1996). Migration of luteinizing hormone-releasing hormone (LHRH) neurons in early human embryos. *J Comp Neurol* 366, 547-57.
287. Soussi-Yanicostas N, Hardelin JP, Levilliers J, Ardouin O, Legouis R, Cohen-Salmon M, **Petit C** (1996). Approche moléculaire de la pathogénie d'un déficit héréditaire de l'olfaction: le syndrome de Kallmann de Morsier lié au chromosome X. *Ann Inst Pasteur, actual* 6, 282-91.
288. Soussi-Yanicostas N, Hardelin JP, Arroyo-Jimenez M, Ardouin O, Legouis R, Levilliers J, Traincard F, Betton JM, Cabanié L, **Petit C** (1996). Initial characterization of anosmin-1, a putative extracellular matrix protein synthesized by definite neuronal cell populations in the central nervous system. *J Cell Sci* 109, 1749-57.
289. Tesson F, Donger C, Denjoy I, Berthet M, Bennaceur M, **Petit C**, Coumel P, Schwartz K, Guicheney P (1996). Exclusion of *KCNE1 (Isk)* as a candidate gene for Jervell and Lange-Nielsen syndrome. *J Mol Cell Cardiol* 28, 2051-5.
290. Weil D, Lévy G, Sahly I, Levi-Acobas F, Blanchard S, El-Amraoui A, Crozet F, Philippe H, Abitbol M, **Petit C** (1996). Human myosin VIIA responsible for the Usher 1B syndrome: a predicted membrane-associated motor protein expressed in developing sensory epithelia. *Proc Natl Acad Sci USA* 93, 3232-7.

291. Weil D, Lévy G, Sahly I, Levi-Acobas F, Blanchard S, Crozet F, Kaplan J, Munnich A, Abitbol M, Steel KP, Brown S, **Petit C** (1996). Syndrome de Usher de type 1B: anomalie d'une myosine non conventionnelle. *Ann Inst Pasteur, actual* 6, 300-3.

1995

292. Cohen-Salmon M, Tronche F, del Castillo I, **Petit C** (1995). Characterization of the promoter of the human *KAL* gene, responsible for the X-chromosome-linked Kallmann syndrome. *Gene* 164, 235-42.
293. Franco B, Meroni G, Parenti G, Levilliers J, Bernard L, Gebbia M, Cox L, Maroteaux P, Sheffield L, Rappold GA, Andria G, **Petit C**, Ballabio A (1995). A cluster of sulfatase genes at Xp22.3: mutations in *chondrodysplasia punctata* (*CDPX*) and implications for warfarin embryopathy. *Cell* 81, 15-25.
294. Guilford P, Dodé C, Crozet F, Blanchard S, Chaïb H, Levilliers J, Levi-Acobas F, Weil D, Weissenbach J, Cohen D, Le Paslier D, Kaplan JC, **Petit C** (1995). A YAC contig and an EST map in the pericentromeric region of chromosome 13 surrounding the loci for neurosensory nonsyndromic deafness (*DFNB1* and *DFNA3*) and the limb-girdle muscular dystrophy type 2C (*LGMD2C*). *Genomics* 29, 163-9.
295. Hardelin JP, **Petit C** (1995). A molecular approach to the pathophysiology of the X chromosome-linked Kallmann's syndrome *In* Baillière's Clin Endocrinol Metab, vol 9 Baillière Tindall, pp 489-507.
296. **Petit C** (1995). Une myosine non conventionnelle à l'origine de l'une des formes génétiques du syndrome de Usher. *Médecine/Sciences* 11, 1181-8.
297. **Petit C** (1995). Une nouvelle arylsulfatase à l'origine de la chondrodysplasie ponctuée récessive liée au chromosome X et peut-être d'une embryopathie médicamenteuse. *Médecine/Sciences* 11, 1492-4.
298. Vincent C, Levilliers J, **Petit C** (1995). Déficiets auditifs héréditaires de l'enfant: progrès récents. *La Lettre d'ORL et de chirurgie cervico-faciale* 198, 10-4.
299. Wang I, Franco B, Ferrero GB, Chinault AC, Weissenbach J, Chumakov I, Le Paslier D, Levilliers J, Klink A, Rappold GA, Ballabio A, **Petit C** (1995). High density physical mapping of a 3-Mb region at Xp22.3 and refined localization of the gene for X-linked recessive chondrodysplasia punctata (*CDPX1*). *Genomics* 26, 229-38.
300. Wang I, Weil D, Levilliers J, Affara N, de la Chapelle A, **Petit C** (1995). Prevalence and molecular analysis of two hot spots for ectopic recombination leading to XX maleness. *Genomics* 28, 52-8.
301. Weil D, Blanchard S, Kaplan J, Guilford P, Gibson F, Walsh J, Mburu P, Varela A, Levilliers J, Weston MD, Kelley PM, Kimberling WJ, Wagenaar M, Levi-Acobas F, Larget-Piet D, Munnich A, Steel KP, Brown SDM, **Petit C** (1995). Defective myosin VIIA gene responsible for Usher syndrome type 1B. *Nature* 374, 60-1.

1994

302. Ben Arab S, **Petit C**, Belkahia A (1994). Etude épidémiologique, génétique et moléculaire de la surdit e de perception r ecessive avec localisation d'un g ene. *Les cahiers d'ORL XXIX*, 237-41.
303. Chaïb H, Lina-Granade G, Guilford P, Plauchu H, Levilliers J, Morgon A, **Petit C** (1994). A gene responsible for a dominant form of neurosensory non-syndromic deafness maps to the *NSRD1* recessive deafness gene interval. *Hum Mol Genet* 3, 2219-22.
304. d'Amato T, Waksman G, Martinez M, Laurent C, Gorwood P, Campion D, Jay M, **Petit C**, Savoye C, Bastard C, Babron MC, Clerget-Darpoux F, Mallet J (1994). Pseudoautosomal region in schizophrenia: linkage analysis of seven loci by sib-pair and lod-score methods. *Psychiatry Res* 52, 135-47.
305. Guilford P, Ayadi H, Blanchard S, Chaïb H, Le Paslier D, Weissenbach J, Drira M, **Petit C** (1994). A human gene responsible for neurosensory, non-syndromic recessive deafness is a candidate homologue of the mouse *sh-1* gene. *Hum Mol Genet* 3, 989-93.
306. Guilford P, Ben Arab S, Blanchard S, Levilliers J, Weissenbach J, Belkahia A, **Petit C** (1994). A non-syndromic form of neurosensory, recessive deafness maps at the pericentromeric region of chromosome 13q. *Nature Genet* 6, 24-8.
307. Legouis R, Hardelin JP, **Petit C**, Ayer-Le Li evre C (1994). Early expression of the *KAL* gene during embryonic development of the chick. *Anat Embryol* 190, 549-62.
308. Legouis R, Cohen-Salmon M, del Castillo I, **Petit C** (1994). Isolation and characterization of the gene responsible for the X chromosome-linked Kallmann syndrome. *Biomed Pharmacother* 48, 241-6.
309. Vincent C, Kalatzis V, Compain S, Levilliers J, Slim R, Graia F, Pereira MdL, Nivelon A, Croquette MF, Lacombe D, Vigneron J, Helias J, Broyer M, Callen DF, Haan EA, Weissenbach J, Lacroix B, Bellan e-Chantelot C, Le Paslier D, Cohen D, **Petit C** (1994). A proposed new contiguous gene syndrome on 8q consists of branchio-oto-renal (BOR) syndrome, Duane syndrome, a dominant form of hydrocephalus and trapeze aplasia; implications for the mapping of the BOR gene. *Hum Mol Genet* 3, 1859-66.

310. Weil D, Wang I, Dietrich A, Poustka A, Weissenbach J, **Petit C** (1994). Highly homologous loci on the X and Y chromosomes are hot-spots for ectopic recombinations leading to XX maleness. *Nature Genet* 7, 414-9.

1993

311. Claverie JM, Hardelin JP, Legouis R, Levilliers J, Bougueleret L, Mattei MG, **Petit C** (1993). Characterization and chromosomal assignment of a human cDNA encoding a protein related to the murine 102-kDa cadherin-associated protein (α -catenin). *Genomics* 15, 13-20.
312. del Castillo I, Cohen-Salmon M, **Petit C** (1993). Molecular analysis of inherited diseases by positional cloning: isolation and characterization of the gene responsible for the X chromosome-linked Kallmann syndrome. *Methods Mol Cell Biol* 4, 87-92.
313. Hardelin JP, Levilliers J, Young J, Pholsena M, Legouis R, Kirk J, Bouloux P, **Petit C**, Schaison G (1993). Xp22.3 deletions in isolated familial Kallmann's syndrome. *J Clin Endocrinol Metab* 76, 827-31.
314. Hardelin JP, Levilliers J, Blanchard S, Carel JC, Leutenegger M, Pinard-Bertelletto JP, Bouloux P, **Petit C** (1993). Heterogeneity in the mutations responsible for X chromosome-linked Kallmann syndrome. *Hum Mol Genet* 2, 373-7.
315. Kremer E, Baker E, D'Andrea RJ, Slim R, Philips H, Moretti PA, Lopez AF, **Petit C**, Vadas MA, Sutherland GR, Goodall GJ (1993). A cytokine receptor gene cluster in the X-Y pseudoautosomal region? *Blood* 82, 22-8.
316. Legouis R, Ayer-Le Lièvre C, Leibovici M, Lapointe F, **Petit C** (1993). Expression of the *KAL* gene in multiple neuronal sites during chicken development. *Proc Natl Acad Sci USA* 90, 2461-5.
317. Legouis R, Cohen-Salmon M, del Castillo I, Levilliers J, Capy L, Mornon JP, **Petit C** (1993). Characterization of the chicken and quail homologues of the human gene responsible for the X-linked Kallmann syndrome. *Genomics* 17, 516-8.
318. Ogata T, Goodfellow P, **Petit C**, Maroteaux P, Matsuo N (1993). Absent chondrodysplasia punctata in a male with an Xp terminal deletion involving the putative region for *CDPX1* locus. *Am J Med Genet* 45, 101-4.
319. **Petit C** (1993). Molecular basis of the X chromosome-linked Kallmann's syndrome. *Trends Endocrinol Metab* 4, 8-13.
320. Slim R, Levilliers J, Lüdecke HJ, Claussen U, Nguyen VC, Gough NM, Horsthemke B, **Petit C** (1993). A human pseudoautosomal gene encodes the ANT3 ADP/ATP translocase and escapes X-inactivation. *Genomics* 16, 26-33.
321. Slim R, Le Paslier D, Compain S, Levilliers J, Ougen P, Billault A, Donohue SJ, Klein DC, Mintz L, Bernheim A, Cohen D, Weissenbach J, **Petit C** (1993). Construction of a yeast artificial chromosome contig spanning the pseudoautosomal region and isolation of 25 new sequence-tagged sites. *Genomics* 16, 691-7.
322. Soussi-Yanicostas N, Whalen R, **Petit C** (1993). Five skeletal myosin heavy chain genes are organized as a multigene complex in the human genome. *Hum Mol Genet* 2, 563-9.
323. Weil D, Portnoï MF, Levilliers J, Wang I, Mathieu M, Taillemite JL, Meir M, Boudailliez B, **Petit C** (1993). A 45,X male with an X;Y translocation: implications for the mapping of the genes responsible for Turner syndrome and X-linked chondrodysplasia punctata. *Hum Mol Genet* 2, 1853-16.

1992

324. d'Amato T, Campion D, Gorwood P, Jay M, Sabate O, **Petit C**, Abbar M, Malafosse A, Leboyer M, Hillaire D, Clerget-Darpoux F, Feingold J, Walsman G, Mallet J (1992). Evidence for a pseudoautosomal locus for schizophrenia II: replication of a non-random segregation of alleles at the DXYS14 locus. *British J Psychiatry* 161, 59-62.
325. del Castillo I, Cohen-Salmon M, Blanchard S, Lutfalla G, **Petit C** (1992). Structure of the X-linked Kallmann syndrome gene and its homologous pseudogene on the Y chromosome. *Nature Genet* 2, 305-10.
326. Hardelin JP, Levilliers J, del Castillo I, Cohen-Salmon M, Legouis R, Blanchard S, Compain S, Bouloux P, Kirk J, Moraine C, Chaussain JL, Weissenbach J, **Petit C** (1992). X chromosome-linked Kallmann syndrome: stop mutations validate the candidate gene. *Proc Natl Acad Sci USA* 89, 8190-4.
327. Ogata T, **Petit C**, Rappold G, Matsuo N, Matsumoto T, Goodfellow P (1992). Chromosomal localisation of a pseudoautosomal growth gene(s). *J Med Genet* 29, 624-8.
328. Ogata T, Goodfellow P, **Petit C**, Aya M, Matsuo N (1992). Short stature in a girl with a terminal Xp deletion distal to DXYS15: localisation of a growth gene(s) in the pseudoautosomal region. *J Med Genet* 29, 455-9.
329. Wapenaar MC, **Petit C**, Basler E, Ballabio A, Henke A, Rappold GA, Van Paassen HMB, Blondin LA, Van Ommen GJ (1992). Physical mapping of 14 new DNA markers isolated from the human distal Xp region. *Genomics* 13, 167-75.

1991

330. Bouloux PM, Hardelin JP, Munroe P, Kirk JM, Legouis R, Levilliers J, Hazan J, Weissenbach J, **Petit C** (1991). A dinucleotide repeat polymorphism at the Kallmann locus (Xp22.3) *Nucleic Acids Res* 19, 5453.
331. Legouis R, Hardelin JP, Levilliers J, Claverie JM, Compain S, Wunderle V, Millasseau P, Le Paslier D, Cohen D, Caterina D, Bougueleret L, Delemarre-Van de Waal H, Lutfalla G, Weissenbach J, **Petit C** (1991). The candidate gene for the X-linked Kallmann syndrome encodes a protein related to adhesion molecules. *Cell* 67, 423-35.
332. **Petit C** (1991). Rôle du chromosome Y dans la détermination du sexe. *Press Med* 20, 539-40.
333. **Petit C** (1991). Un gène candidat pour le syndrome de Kallmann ou de Morsier et sans doute une nouvelle molécule d'adhérence. *Médecine/Sciences* 7, 980.
334. Van Maldergem I, Espeel M, Roels F, **Petit C**, Dacremont G, Wanders RJA, Verloes A, Gillerot Y (1991). X-linked recessive chondrodysplasia punctata with XY translocation in a stillborn fetus. *Hum Genet* 87, 661-4.
335. Vincent A, Heitz D, **Petit C**, Kretz C, Oberlé I, Mandel JL (1991). Abnormal pattern detected in fragile-X patients by pulsed-field gel electrophoresis. *Nature* 349, 624-6.

1990

336. Gabriel-Robez O, Rumpler Y, Ratomponirina C, **Petit C**, Levilliers J, Croquette MF, Couturier J (1990). Deletion of the pseudoautosomal region and lack of sex-chromosome pairing at pachytene in two infertile men carrying an X;Y translocation. *Cytogenet Cell Genet* 54, 38-42.
337. Meitinger T, Heye B, **Petit C**, Levilliers J, Golla A, Moraine C, Dalla Piccola B, Sippell WG, Murken J, Ballabio A (1990). Definitive localization of X-linked Kallmann syndrome (hypogonadotropic hypogonadism and anosmia) to Xp22.3: close linkage to the hypervariable repeat sequence CRI-S232. *Am J Hum Genet* 47, 664-9.
338. **Petit C**, Levilliers J, Rouyer F, Simmler MC, Herouin E, Weissenbach J (1990). Isolation of sequences from Xp22.3 and deletion mapping using sex chromosome rearrangements from human X-Y interchange sex reversals. *Genomics* 6, 651-8.
339. **Petit C**, Levilliers J, Weissenbach J (1990). Long-range restriction map of the terminal part of the short arm of the human X chromosome. *Proc Natl Acad Sci USA* 87, 3680-4.
340. **Petit C**, Melki J, Levilliers J, Serville F, Weissenbach J, Maroteaux P (1990). An interstitial deletion in Xp22.3 in a family with X-linked recessive chondrodysplasia punctata and short stature. *Hum Genet* 85, 247-50.
341. Weissenbach J, **Petit C** (1990). Chromosome Y et détermination du sexe. *Médecine/Sciences* 6, 785-90.

1989

342. Levilliers J, Quack B, Weissenbach J, **Petit C** (1989). Exchange of terminal portions of X- and Y-chromosomal short arms in human XY females. *Proc Natl Acad Sci USA* 86, 2296-300.
343. **Petit C**, Sauron ME, Gilbert M, Theze J (1989). Use of immunoblotting to detect idiotypic determinants on monoclonal antibodies. *Methods Enzymol* 178, 144-9.

1988

344. **Petit C**, Levilliers J, Weissenbach J (1988). Physical mapping of the human pseudo-autosomal region; comparison with genetic linkage map. *EMBO J* 7, 2369-76.

1987

345. **Petit C**, de la Chapelle A, Levilliers J, Castillo S, Noël B, Weissenbach J (1987). An abnormal terminal X-Y interchange accounts for most but not all cases of human XX maleness. *Cell* 49, 595-602.
346. Simmler MC, Johnsson C, **Petit C**, Rouyer F, Vergnaud G, Weissenbach J (1987). Two highly polymorphic minisatellites from the pseudoautosomal region of the human sex chromosomes. *EMBO J* 6, 963-9.
347. Weissenbach J, Levilliers J, **Petit C**, Rouyer F, Simmler MC (1987). Normal and abnormal interchanges between the human X and Y chromosomes. *Development* 101 (supplement), 67-74.

1986

348. Rouyer F, Simmler MC, Vergnaud G, Johnsson C, Levilliers J, **Petit C**, Weissenbach J (1986). The pseudoautosomal region of the human sex chromosomes. *Cold Spring Harb Symp Quant Biol* 51 Pt1, 221-8.
349. **Petit C**, Levilliers J, Ott MO, Weiss MC (1986). Tissue-specific expression of the rat albumin gene: genetic control of its extinction in microcell hybrids. *Proc Natl Acad Sci USA* 83, 2561-5.

350. **Petit C**, Julius MH (1986). Trans-stimulation of T cells: characterization of targets and involvement in loss of alloreactivity. *Scand J Immunol* 23, 45-52.

1983

351. **Petit C**, Gilbert M (1983). Primary response to GAT in F344 rats: anti-GAT antibodies, nonspecific immunoglobulins, and expression of the GAT-13 idiotype. *Cell Immunol* 80, 43-56.

1982

352. **Petit C**, Sauron ME, Gilbert M, Theze J (1982). Direct detection of idiotypic determinants on blotted monoclonal antibodies. *Ann Immunol (Paris)* 133, 77-85.
353. **Petit C**, Gilbert M, Somme G, Leclercq L, Mazie JC, Dorf ME, Theze J (1982). Analysis of a major rat idiotype associated with anti-GAT antibodies. *Mol Immunol* 19, 1139-47.

1981

354. Somme G, Leclercq L, **Petit C**, Theze J (1981). Genetic control of the immune response to the L-Glu60-L-Ala30-L-Tyr10 (GAT) terpolymer. V. Three types of idiotypic specificities on BALB/c anti-GAT antibodies. *Eur J Immunol* 11, 493-8.

1979

355. **Petit C**, Joskowicz M, Stanislawski M, Theze J (1979). Genetic control of the immune response to the terpolymer L-glutamic acid 60-L-alanine 30-L-tyrosine10 (GAT). III. Restricted heterogeneity of the anti-GAT response from BALB/c responder mice. *Eur J Immunol* 9, 922-8.

1978

356. Carelli C, Antoine JC, **Petit C**, Rodrigot M, Avrameas S (1978). Comparison of the developmental kinetics of antibody- and immunoglobulin-forming cells in normal and tolerant mice. *J Immunol* 121, 2070-6.

1977

357. **Petit C**, Antoine JC, Avrameas S (1977). A comparative biochemical study of cells synthesizing immunoglobulins without detectable antibody function and of antibody-synthesizing cells. *Immunochemistry* 14, 479-88.
358. Antoine JC, **Petit C**, Bach MA, Bach JF, Salomon JC, Avrameas S (1977). T cell dependence of cells synthesizing immunoglobulin without detectable antibody function induced after an antigenic stimulation. *Eur J Immunol* 7, 336-41.

1976

359. Antoine JC, **Petit C**, Avrameas S (1976). Development of immunoglobulin and antibody-synthesizing cells after immunization with different doses of antigen. *Immunology* 31, 921-30.
360. Avrameas S, Antoine JC, Ternynck T, **Petit C** (1976). Development of immunoglobulin and antibody-forming cells in different stages of the immune response. *Ann Immunol (Paris)* 127, 551-71.

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