

Christine PETIT

Laboratory of Genetics and Physiology of Hearing
College de France - Institut Pasteur - INSERM – UPMC

2015

1. 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.
2. 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.
3. 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.
4. 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, Darteville 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.
5. Lelli A, Michel V, Boutet de Monvel J, Perfettini I, Cortese M, Bosch-Grau M, Dupont T, Avan P, El-Amraoui A, **Petit P** (2015). Class III myosins shape the auditory hair bundles by limiting microvilli and stereocilia growth *J Cell Biol* (in press).
6. Michalski N, **Petit C** (2015). Genetics of auditory mechano-electrical transduction. *Pflügers Arch* 467, 49-72.
7. Pepermans E, **Petit C** (2015). The tip-link molecular complex of the auditory mechano-electrical transduction machinery. *Hear Res* 330, 10-7.
8. Riahi Z, Bonnet C, Zainine R, Lahbib S, Bouyacoub Y, Bechraoui R, Marrakchi J, Hardelin JP, Louha M, Lagueche 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.
9. 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.
10. 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

11. 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.
12. El-Amraoui A, **Petit C** (2014). The retinal phenotype of Usher syndrome: pathophysiological insights from animal models. *C R Biologies* 337, 167-77.
13. 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-frequency sound interference due to defective hair bundles of the auditory outer hair cells. *Proc Natl Acad Sci USA* 111, 9307-12.
14. 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.

15. 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.
16. 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.
17. 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.
18. 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

19. Avan P, Büki B, **Petit C** (2013). Auditory Distortions: Origins and Functions. *Physiol Rev* 93, 1563-619.
20. 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.
21. 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.
22. El-Amraoui A, **Petit C** (2013). Cadherin defects in inherited human diseases. *Progr Mol Biol Transl Sci*. 116, 361-84.
23. Greenspan R, **Petit C** (2013). Neurogenetics. *Curr Opin Neurobiol*. 23, 1-2.
24. 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.
25. Meyer A, **Petit C**, Safieddine S (2013). [Gene therapy for human hearing loss: challenges and promises]. *Med Sci (Paris)* 29, 883-9.
26. Papal S, Cortese M, Legendre K, Soroush 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.
27. 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

28. 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.
29. 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.
30. 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.
31. 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.

32. **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.
33. Safieddine S, El-Amraoui A, **Petit C** (2012). The auditory hair cell ribbon synapse: From assembly to function. *Annu Rev Neurosci* 35, 509-28.
34. 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

35. Bonnet C, Grati Mh, Marlin S, Levilliers J, Hardelin JP, Parodi M, Niasme-Grare M, Zelenika D, Délépine 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.
36. 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
37. 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.
38. 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.
39. Richardson GP, Boutet de Monvel J, **Petit C** (2011). How the genetics of deafness illuminates auditory physiology. *Annu Rev Physiol* 73, 311–34.
40. 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

41. 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.
42. 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.
43. 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.
44. 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.
45. Boutet de Monvel J, **Petit C** (2010). Wrapping up stereocilia rootlets. *Cell* 141, 748-50.
46. del Castillo FJ, Cohen-Salmon M, Charollais A, Caille D, Lampe P, Chavrier 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.
47. El-Amraoui A, **Petit C** (2010). Cadherins as targets for genetic diseases. *Cold Spring Harb Perspect Biol* 2, a003095 387-406.
48. El-Amraoui A, **Petit C** (2010). Thérapie cellulaire dans l'oreille interne - Nouveaux développements et perspectives. *Med Sci (Paris)* 26, 981-85.

49. 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.
50. 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.
51. 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

52. 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.
53. 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.
54. 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.
55. 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.
56. 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.
57. 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.
58. **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.
59. **Petit C**, Richardson GP (2009). Linking genes underlying deafness to hair-bundle development and function. *Nat Neurosci* 12, 703-10.
60. 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

61. 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.
62. 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.
63. 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.
64. 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.
65. 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.

66. Legendre K, Safieddine S, Küssel-Andermann P, **Petit C**, El-Amraoui A (2008). α II/βV spectrin bridges the plasma membrane and cortical lattice in the lateral wall of the auditory outer hair cells. *J Cell Sci* 121, 3347-56.
67. Leibovici M, Safieddine S, **Petit C** (2008). Mouse models of human hereditary deafness. *Curr Top Dev Biol* 84, 385-429.
68. **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.
69. 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.
70. 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.
71. 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

72. 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.
73. 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.
74. 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-oto-renal syndrome. *Am J Hum Genet* 80, 800-4.
75. Hyenne V, Souilh  C, Cohen-Tannoudji M, Cereghini S, **Petit C**, Langa F, Maro B, Simmler MC (2007). Conditional knock-out reveals that zygotically vezatin-null mouse embryos die at implantation. *Mech Dev* 124, 449-62.
76. 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.
77. 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.
78. **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

79. 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.
80. 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.

81. Dodé C, Teixeira L, Levilliers J, Fouveaut C, Bouchard P, Kottler ML, Lespinasse J, Lienhardt-Roussie A, Mathieu M, Moerman A, Morgan G, Murat A, Toub Blanc 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.
82. **Petit C** (2006). From deafness genes to hearing mechanisms: harmony and counterpoint. *Trends Mol Med* 12, 57-64.
83. 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.
84. 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

85. 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.
86. 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.
87. 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.
88. 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.
89. 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.
90. 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.
91. 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.
92. 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.
93. 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.
94. 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.
95. 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.
96. 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.
97. 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.
98. **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

99. 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, Toublanc 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.
100. 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.
101. Feldmann D, Denoyelle F, Chauvin P, Garabedian EN, Couderc R, Odent S, Joannard A, Schmerber S, Delobel B, Leman J, Journal 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.
102. Feldmann D, Denoyelle F, Loundon N, Weil D, Garabedian EN, Couderc R, Joannard A, Schmerber S, Delobel B, Leman J, Journal 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.
103. Hardelin JP, Denoyelle F, Levilliers J, Simmler MC, **Petit C** (2004). Les surdités héréditaires: génétique moléculaire. *Med Sci (Paris)* 20, 311-6.
104. 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.
105. 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.
106. 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.
107. **Petit C** (2004). Memorial lecture - hereditary sensory defects: From genes to pathogenesis. *Am J Med Genet* 130A, 3-7.
108. Ruf RG, Xu P-X, Silviu 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.
109. 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

110. 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.

111. 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.
112. 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.
113. 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.
114. 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.
115. 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.
116. 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.
117. 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.
118. 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.
119. 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.
120. Mburu P, Mustapha M, Varela A, Weil D, El-Amraoui A, Holme RH, Rump A, Hardisty RE, Blanchard S, Coimbra RS, Perfattini 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.
121. Michel V, Hardelin JP, **Petit C** (2003). Molecular mechanism of a frequent genetic form of deafness. *New Engl J Med* 349, 716-7.
122. 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.
123. 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.
124. 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.
125. 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.

126. 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.
127. 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

128. 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.
129. 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.
130. 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.
131. 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.
132. 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.
133. 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.
134. 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.
135. 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.
136. 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.
137. 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.
138. 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.
139. 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

140. 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.
141. 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.

142. 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.
143. 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.
144. 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.
145. Kalatzis V, **Petit C** (2001). Hereditary hearing loss *In*: Reeve ECR (ed), Encyclopedia of genetics, London, UK: Fitzroy Dearborn, pp 492-9.
146. 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.
147. 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.
148. **Petit C** (2001). Usher syndrome: from genetics to pathogenesis. *Annu Rev Genomics Hum Genet* 2, 271-97.
149. **Petit C**, Levilliers J, Hardelin JP (2001). Molecular genetics of hearing loss. *Annu Rev Genet* 35, 589-646.
150. **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.
151. 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.
152. 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

153. 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.
154. 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.
155. Ben Arab S, Hmani M, Denoyelle F, Boulila-Elga ed 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.
156. 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.
157. 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.
158. 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.
159. Denoyelle F, Marlin S, **Petit C**, Garab dian EN (2000). Surdit s neurosensorielles d'origine g n tique. *La Revue du Praticien* 50, 146-9.

160. 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.
161. 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.
162. 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.
163. 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.
164. 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.
165. 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.
166. 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.
167. **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.
168. **Petit C**, Weil D (2000). Human hereditary deafness *In*: *Encyclopedia of Life Sciences* London: Macmillan Ref Ltd, Stockton Press.
169. 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.
170. 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.
171. 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.
172. Yasunaga S, **Petit C** (2000). Physical map of the region surrounding the *OTOFERLIN* locus on chromosome 2p22-23. *Genomics* 66, 110-2.
173. 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.
174. 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.

1999

175. 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.
176. 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.
177. 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.

178. 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.
179. Kalatzis V, **Petit C** (1999). Branchio-otic syndromes imbroglio. *Am J Med Genet* 82, 440-441.
180. 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.
181. Marlin S, Blanchard S, Slim R, Lacombe D, Denoyelle F, Alessandri JL, Calzolari E, Drouin-Garraud V, Ferraz FG, Fourmaintraux A, Philip N, Toubblanc 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.
182. 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.
183. 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.
184. Sahly I, Andermann P, **Petit C** (1999). The zebrafish *eya1* gene and its expression pattern during embryogenesis. *Dev Genes Evol* 209, 399-410.
185. 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.
186. 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**
187. 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.
188. Dod  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.
189. Drira M, Ghorbel A, Goui a M, Boulila-ElGa ied 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.
190. 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.
191. 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.
192. 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.
193. 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.
194. 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.
195. Marlin S, Denoyelle F, Busquet D, Garab dian N, **Petit C** (1998). A particular case of deafness-oligodontia syndrome. *Int J Pediatr Otorhinolaryngol* 44, 63-9.

196. Marlin S, Toublanc JE, **Petit C** (1998). Two cases of Townes-Brocks syndrome with previously undescribed anomalies. *Clin Dysmorphol* 7, 295-8.
197. 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.
198. 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.
199. 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.
200. 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

201. 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.
202. 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.
203. 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.
204. Boulila-Elgaïed A, Masmoudi S, Driba M, Gouïa 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.
205. 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.
206. 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.
207. 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.
208. 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.
209. 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-ElGaïed 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.
210. El-Amraoui A, **Petit C** (1997). Towards a molecular understanding of the pathophysiology of Usher syndrome. *J Audiol Med* 6, 170-84.
211. 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.

212. Neyroud N, Tesson F, Denjoy I, Leibovici M, Donger C, Barhanin J, Fauré 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.
213. **Petit C** (1997). Isolement du gène responsable du syndrome branchio-oto-rénal et identification d'une nouvelle famille de gènes impliqués dans le développement. *Médecine/Sciences* 13, 231.
214. **Petit C** (1997). Déficiences héréditaires de l'audition chez l'enfant. *Bull Audiophonol (Ann Sc Univ Fr-C)* XIII, 209-18.
215. **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.
216. Sahly I, El-Amraoui A, Abitbol M, **Petit C**, Dufier JL (1997). Expression of myosin VIIA during mouse embryogenesis. *Anat Embryol* 196, 159-70.
217. 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.
218. 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.
219. 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

220. 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). Déficiences héréditaires de l'audition chez l'enfant. *Ann Inst Pasteur, actual* 6, 304-9.
221. 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.
222. 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.
223. El-Amraoui A, Sahly I, Picaud S, Sahel J, Abitbol M, **Petit C** (1996). Human Usher 1B/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.
224. 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.
225. **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.
226. **Petit C** (1996). Genes responsible for human hereditary deafness: symphony of a thousand. *Nature Genet* 14, 385-91.
227. **Petit C** (1996). Bases moléculaires des déficiences neurosensorielles chez l'homme. *Ann Méd Int* 6, 449-452
228. 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.
229. 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.
230. 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.

231. 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.
232. 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.
233. 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

234. 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.
235. 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.
236. 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.
237. Hardelin JP, **Petit C** (1995). A molecular approach to the pathophysiology of the X chromosome-linked Kallmann's syndrome *In* Baillièrè's Clin Endocrinol Metab, vol 9 Baillièrè Tindall, pp 489-507.
238. **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.
239. **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.
240. 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.
241. 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.
242. 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.
243. 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

244. 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.
245. 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.
246. 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.
247. 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.

248. 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.
249. Legouis R, Hardelin JP, **Petit C**, Ayer-Le Lièvre C (1994). Early expression of the *KAL* gene during embryonic development of the chick. *Anat Embryol* 190, 549-62.
250. 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.
251. 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, Bellané-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.
252. 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

253. 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 .
254. 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.
255. 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.
256. 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.
257. 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.
258. 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.
259. 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.
260. 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.
261. **Petit C** (1993). Molecular basis of the X chromosome-linked Kallmann's syndrome. *Trends Endocrinol Metab* 4, 8-13.
262. 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.
263. 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.
264. 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.

265. 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

266. d'Amato T, Champion 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.
267. 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.
268. 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.
269. 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.
270. 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
271. Wapenaar MC, **Petit C**, Basler E, Ballabio A, Henke A, Rappold GA, Van Paassen HMB, Blonden LA, Van Ommen GJ (1992). Physical mapping of 14 new DNA markers isolated from the human distal Xp region. *Genomics* 13, 167-75.

1991

272. 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.
273. 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.
274. **Petit C** (1991). Rôle du chromosome Y dans la détermination du sexe. *Press Med* 20, 539-40.
275. **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.
276. 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.
277. 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

278. 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.
279. 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.
280. **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.
281. **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.

282. **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.

283. Weissenbach J, **Petit C** (1990). Chromosome Y et détermination du sexe. *Médecine/Sciences* 6, 785-90.

1989

284. 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.

285. **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

286. **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

287. **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.

288. 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.

289. 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

290. 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.

291. **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.

292. **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

293. **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

294. **Petit C**, Sauron ME, Gilbert M, Theze J (1982). Direct detection of idiotypic determinants on blotted monoclonal antibodies. *Ann Immunol (Paris)* 133, 77-85.

295. **Petit C**, Gilbert M, Somme G, Leclercq L, Mazie JC, Dorf ME, Theze J (1982). Analysis of a major rat idio type associated with anti-GAT antibodies. *Mol Immunol* 19, 1139-47.

1981

296. 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

297. **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

298. 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

299. **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.
300. 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

301. 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.
302. 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.