

GILBERT VASSART

Original Articles

1. Vassart GM, Dumont JE, Cantraine FR 1970 Simulation of polyribosome disaggregation. *Biochim Biophys Acta* 224:155-164
2. Vassart G, Dumont JE, Cantraine FR 1971 Translational control of protein synthesis: a simulation study. *Biochim Biophys Acta* 247:471-485
3. Vassart GM, Dumont JE, Cantraine FR 1971 Interpretation of surface aspects of cell sections. *J Cell Biol* 49:210-212
4. Vassart G 1972 Specific synthesis of thyroglobulin on membrane-bound thyroid polysomes. *FEBS Lett* 22:53-56
5. Vassart G, Brocas H, Nokin P, Dumont JE 1973 Translation in Xenopus oocytes of thyroglobulin mRNA isolated by poly(U)-Sepharose affinity chromatography. *Biochim Biophys Acta* 324:575-580
6. Vassart G, Dumont JE 1973 Identification of polysomes synthesizing thyroglobulin. *Eur J Biochem* 32:322-330
7. Vassart G, Lecocq RE, Brocas H, Dumont JE 1974 Translation in Xenopus oocyte of messenger RNA coding for a beef heavy-chain thyroglobulin. *Biochim Biophys Acta* 353:261-265
8. Vassart G, Refetoff S, Brocas H, Dinsart C, Dumont JE 1975 Translation of thyroglobulin 33S messenger RNA as a means of determining thyroglobulin quaternary structure. *Proc Natl Acad Sci U S A* 72:3839-3843
9. Vassart G, Brocas H, Lecocq R, Dumont JE 1975 Thyroglobulin messenger RNA: translation of a 33-S mRNA into a peptide immunologically related to thyroglobulin. *Eur J Biochem* 55:15-22
10. Brocas H, Seo H, Refetoff S, Vassart G 1976 Simultaneous translation of growth hormone and prolactin messenger RNA from rat pituitary tumor cells. *FEBS Lett* 70:175-179
11. Dinsart C, Lecocq R, Dumont JE, Vassart G 1976 Control by TSH of protein turnover in thyroid subcellular fractions. *Horm Metab Res* 8:140-145
12. Davies E, Dumont JE, Vassart G 1977 Improved techniques for the isolation of intact thyroglobulin-synthesizing polysomes. *Anal Biochem* 80:289-297
13. Dinsart C, Van Voorthuizen F, Vassart G 1977 Reverse transcription of thyroglobulin 33-S mRNA. *Eur J Biochem* 78:175-181
14. Seo H, Vassart G, Brocas H, Refetoff S 1977 Triiodothyronine stimulates specifically growth hormone mRNA in rat pituitary tumor cells. *Proc Natl Acad Sci U S A* 74:2054-2058
15. Vassart G, Verstreken L, Dinsart C 1977 Molecular weight of thyroglobulin 33 S messenger RNA as determined by polyacrylamide gel electrophoresis in the presence of formamide. *FEBS Lett* 79:15-18
16. Davies E, Dumont JE, Vassart G 1978 Thyrotropin-stimulated recruitment of free monoribosomes on to membrane-bound thyroglobulin-synthesizing polyribosomes. *Biochem J* 172:227-231
17. Seo H, Brocas H, Vassart G, Refetoff S 1978 Early in vitro induction of rat pituitary GH mRNA by T31. *Endocrinology* 103:1506-1509
18. Van Voorthuizen WF, Dinsart C, Flavell RA, DeVijlder JJ, Vassart G 1978 Abnormal cellular localization of thyroglobulin mRNA associated with hereditary congenital goiter and thyroglobulin deficiency. *Proc Natl Acad Sci U S A* 75:74-78

19. Seo H, Refetoff S, Martino E, Vassart G, Brocas H 1979 The differential stimulatory effect of thyroid hormone on growth hormone synthesis and estrogen on prolactin synthesis due to accumulation of specific messenger ribonucleic acids. *Endocrinology* 104:1083-1090
20. Seo H, Refetoff S, Scherberg N, Brocas H, Vassart G 1979 Isolation of rat prolactin messenger ribonucleic acid and synthesis of the complementary deoxyribonucleic acid. *Endocrinology* 105:1481-1487
21. Seo H, Refetoff S, Vassart G, Brocas H 1979 Comparison of primary and secondary stimulation of male rats by estradiol in terms of prolactin synthesis and mRNA accumulation in the pituitary. *Proc Natl Acad Sci U S A* 76:824-828
22. Brocas H, Christophe D, Van Heuverswijn B, Scherberg N, Vassart G 1980 Molecular cloning of Pst I fragments from rat double stranded thyroglobulin complementary DNA. *Biochem Biophys Res Commun* 96:1785-1792
23. Christophe D, Brocas H, Gannon F, de Martynoff G, Pays E, Vassart G 1980 Molecular cloning of bovine thyroglobulin complementary DNA. Characterization of 2500-base-pair and 1900-base-pair fragments. *Eur J Biochem* 111:419-423
24. de Martynoff G, Pays E, Vassart G 1980 Synthesis of a full length DNA complementary to thyroglobulin 33 S messenger RNA. *Biochem Biophys Res Commun* 93:645-653
25. Vassart G, Brocas H 1980 Restriction mapping of synthetic thyroglobulin structural gene as a means of investigating thyroglobulin structure. *Biochim Biophys Acta* 610:189-194
26. Brocas H, van Coevorden A, Seo H, Refetoff S, Vassart G 1981 Dopaminergic control of prolactin mRNA accumulation in the pituitary of the male rat. *Mol Cell Endocrinol* 22:25-30
27. De Vijlder JJ, van Ommen GJ, Van Voorthuizen WF, Koch CA, Arnberg AC, Vassart G, Dinsart C, Flavell RA 1981 Nonfunctional thyroglobulin messenger RNA in goats with hereditary congenital goiter. *J Mol Appl Genet* 1:51-59
28. Etienne Smekens M, Vassart G, Content J, Dumont JE 1981 Presence of 2'-5' A synthetase in dog liver. *FEBS Lett* 125:146-150
29. Pochet R, Brocas H, Vassart G, Toubeau G, Seo H, Refetoff S, Dumont JE, Pasteels JL 1981 Radioautographic localization of prolactin messenger RNA on histological sections by in situ hybridization. *Brain Res* 211:433-438
30. Scherberg NH, Vassart G, Lecocq R, Dumont JE, Refetoff S 1981 Modulation of thyroglobulin messenger RNA accumulation in the rat thyroid. *Endocrinology* 109:1650-1656
31. Seo H, Wunderlich C, Vassart G, Refetoff S 1981 Growth hormone responses to thyroid hormone in the neonatal rat: resistance and anamnestic response. *J Clin Invest* 67:569-574
32. Brocas H, Christophe D, Pohl V, Vassart G 1982 Cloning of human thyroglobulin complementary DNA. *FEBS Lett* 137:189-192
33. Christophe D, Pohl V, Van Heuverswijn B, de Martynoff G, Brocas H, Dumont JE, Pasteels JL, Vassart G 1982 Isolation and characterization of a fragment of rat thyroglobulin gene. *Biochem Biophys Res Commun* 105:1166-1175
34. Christophe D, Brocas H, Vassart G 1982 Improved synthesis of DBM paper. *Anal Biochem* 120:259-261
35. Christophe D, Mercken L, Brocas H, Pohl V, Vassart G 1982 Molecular cloning of the 8000-base thyroglobulin structural gene. *Eur J Biochem* 122:461-469
36. Mercken L, Simons MJ, Vassart G 1982 The 5'-end of bovine thyroglobulin mRNA encodes a hormonogenic peptide. *FEBS Lett* 149:285-287
37. Leriche A, Christophe D, Brocas H, Vassart G 1983 Molecular cloning of complementary DNA: preparation of a plasmid vector with low transformation background. *Anal Biochem* 129:249-252

38. van Ommen GJ, Arnberg AC, Baas F, Brocas H, Sterk A, Tegelaers WH, Vassart G, De Vijlder JJ 1983 The human thyroglobulin gene contains two 15-17 kb introns near its 3'-end. *Nucleic Acids Res* 11:2273-2285
39. Mercken L, Massaer M, Simons MJ, Swillens S, Vassart G 1984 Identification of hormonogenic domains in the carboxyl terminal region of bovine thyroglobulin. *Biochem Biophys Res Commun* 125:961-966
40. Rawitch AB, Mercken L, Hamilton JW, Vassart G 1984 The structure of a naturally occurring 10K polypeptide derived from the amino terminus of bovine thyroglobulin. *Biochem Biophys Res Commun* 119:335-342
41. Refetoff S, Murata Y, Vassart G, Chandramouli V, Marshall JS 1984 Radioimmunoassays specific for the tertiary and primary structures of thyroxine-binding globulin (TBG): measurement of denatured TBG in serum. *J Clin Endocrinol Metab* 59:269-277
42. Targovnik HM, Pohl V, Christophe D, Cabrer B, Brocas H, Vassart G 1984 Structural organization of the 5' region of the human thyroglobulin gene. *Eur J Biochem* 141:271-277
43. Van Heuverswyn B, Streydio C, Brocas H, Refetoff S, Dumont J, Vassart G 1984 Thyrotropin controls transcription of the thyroglobulin gene. *Proc Natl Acad Sci U S A* 81:5941-5945
44. Brocas H, Szpirer J, Lebo RV, Levan G, Szpirer C, Cheung MC, Vassart G 1985 The thyroglobulin gene resides on chromosome 8 in man and on chromosome 7 in the rat. *Cytogenet Cell Genet* 39:150-153
45. Christophe D, Cabrer B, Bacolla A, Targovnik H, Pohl V, Vassart G 1985 An unusually long poly(purine)-poly(pyrimidine) sequence is located upstream from the human thyroglobulin gene. *Nucleic Acids Res* 13:5127-5144
46. Mercken L, Simons MJ, Swillens S, Massaer M, Vassart G 1985 Primary structure of bovine thyroglobulin deduced from the sequence of its 8,431-base complementary DNA. *Nature* 316:647-651
47. Mercken L, Simons MJ, de Martynoff G, Swillens S, Vassart G 1985 Presence of hormonogenic and repetitive domains in the first 930 amino acids of bovine thyroglobulin as deduced from the cDNA sequence. *Eur J Biochem* 147:59-64
48. Rabin M, Barker PE, Ruddle FH, Brocas H, Targovnik H, Vassart G 1985 Proximity of thyroglobulin and c-myc genes on human chromosome 8. *Somat Cell Mol Genet* 11:397-402
49. Ricketts MH, Pohl V, de Martynoff G, Boyd CD, Bester AJ, Van Jaarsveld PP, Vassart G 1985 Defective splicing of thyroglobulin gene transcripts in the congenital goitre of the Afrikander cattle. *EMBO J* 4:731-737
50. Roger PP, Van Heuverswyn B, Lambert C, Reuse S, Vassart G, Dumont JE 1985 Antagonistic effects of thyrotropin and epidermal growth factor on thyroglobulin mRNA level in cultured thyroid cells. *Eur J Biochem* 152:239-245
51. Van Heuverswyn B, Leriche A, Van Sande J, Dumont JE, Vassart G 1985 Transcriptional control of thyroglobulin gene expression by cyclic AMP. *FEBS Lett* 188:192-196
52. Brocas H, Buhler EM, Simon P, Malik NJ, Vassart G 1986 Integrity of the thyroglobulin locus in tricho-rhino-phalangeal syndrome II. *Hum Genet* 74:178-180
53. Cabrer B, Brocas H, Perez Castillo A, Pohl V, Navas JJ, Targovnik H, Centenera JA, Vassart G 1986 Normal level of thyroglobulin messenger ribonucleic acid in a human congenital goiter with thyroglobulin deficiency. *J Clin Endocrinol Metab* 63:931-940
54. Libert F, Vassart G, Christophe D 1986 Methylation and expression of the human thyroglobulin gene. *Biochem Biophys Res Commun* 134:1109-1113
55. Reuse S, Roger PP, Vassart G, Dumont JE 1986 Enhancement of cmyc mRNA concentration in dog thyrocytes initiating DNA synthesis in response to thyrotropin, forskolin, epidermal growth factor and phorbol myristate ester. *Biochem Biophys Res Commun* 141:1066-1076

56. Simon P, Decoster C, Brocas H, Schwers J, Vassart G 1986 Absence of human chorionic somatomammotropin during pregnancy associated with two types of gene deletion. *Hum Genet* 74:235-238
57. Swillens S, Ludgate M, Mercken L, Dumont JE, Vassart G 1986 Analysis of sequence and structure homologies between thyroglobulin and acetylcholinesterase: possible functional and clinical significance. *Biochem Biophys Res Commun* 137:142-148
58. de Martynoff G, Pohl V, Mercken L, van Ommen GJ, Vassart G 1987 Structural organization of the bovine thyroglobulin gene and of its 5'-flanking region. *Eur J Biochem* 164:591-599
59. Georges M, Lequarre AS, Hanset R, Vassart G 1987 Genetic variation of the bovine thyroglobulin gene studied at the DNA level. *Anim Genet* 18:41-50
60. Hansen C, Libert F, Vassart G, Christophe D 1987 Preparation of single-stranded deoxyribonucleic acid probes using an immobilized template. *Anal Biochem* 162:130-136
61. Libert F, Ruel J, Ludgate M, Swillens S, Alexander N, Vassart G, Dinsart C 1987 Thyroperoxidase, an autoantigen with a mosaic structure made of nuclear and mitochondrial gene modules. *EMBO J* 6:4193-4196
62. Parma J, Christophe D, Pohl V, Vassart G 1987 Structural organization of the 5' region of the thyroglobulin gene. Evidence for intron loss and "exonization" during evolution. *J Mol Biol* 196:769-779
63. Parmentier M, Lawson DE, Vassart G 1987 Human 27-kDa calbindin complementary DNA sequence. Evolutionary and functional implications. *Eur J Biochem* 170:207-215
64. Ricketts MH, Simons MJ, Parma J, Mercken L, Dong Q, Vassart G 1987 A nonsense mutation causes hereditary goitre in the Afrikander cattle and unmasks alternative splicing of thyroglobulin transcripts. *Proc Natl Acad Sci U S A* 84:3181-3184
65. Schmidke J, Krawczak M, Schwartz M, Alkan M, Bonduelle M, Bühler E, Chemke M, Darnedde T, Domagk J, Engel W, Frey D, Fryburg K, Halley D, Hundrieser J, Ladanyi L, Libaers I, Lissens W, Mächler M, Malik NJ, Morreau J, Neubauer V, Oostra B, Pape B, Poncin JE, Schinzel A, Simon P, Trefz FK, Tümmeler B, Vassart G, Voss R 1987 Linkage relationships and allelic associations of the cystic fibrosis locus and four marker loci. *Hum Genet* 76:337-343
66. Vassart G, Georges M, Monsieur R, Brocas H, Lequarre AS, Christophe D 1987 A sequence in M13 phage detects hypervariable minisatellites in human and animal DNA. *Science* 235:683-684
67. De Vijlder JJ, Dinsart C, Libert F, Geurts van Kessel A, Bikker H, Bolhuis PA, Vassart G 1988 Regional localization of the gene for thyroid peroxidase to human chromosome 2pter----p12. *Cytogenet Cell Genet* 47:170-172
68. Georges M, Hilbert P, Lequarre AS, Leclerc V, Hanset R, Vassart G 1988 Use of DNA bar codes to resolve a canine paternity dispute. *J Am Vet Med Assoc* 193:1095-1098
69. Georges M, Lequarre AS, Castelli M, Hanset R, Vassart G 1988 DNA fingerprinting in domestic animals using four different minisatellite probes. *Cytogenet Cell Genet* 47:127-131
70. Gerard CM, Lefort A, Libert F, Christophe D, Dumont JE, Vassart G 1988 Transcriptional regulation of the thyroperoxydase gene by thyrotropin and forskolin. *Mol Cell Endocrinol* 60:239-242
71. Hansen C, Gerard C, Vassart G, Stordeur P, Christophe D 1988 Thyroid-specific and cAMP-dependent hypersensitive regions in thyroglobulin gene chromatin. *Eur J Biochem* 178:387-393
72. Simon P, Brocas H, Baran D, van Geffel R, Rodesch F, Vassart G 1988 Carrier prediction of cystic fibrosis in 36 families by means of restriction fragment length polymorphism. *Eur J Pediatr* 147:199-201
73. Streydio C, Lacka K, Swillens S, Vassart G 1988 The human pregnancy-specific beta 1-glycoprotein (PS beta G) and the carcinoembryonic antigen (CEA)-related proteins are members of the same multigene family. *Biochem Biophys Res Commun* 154:130-137

74. Christophe D, Gerard C, Juvenal G, Bacolla A, Teugels E, Ledent C, Christophe Hobertus C, Dumont JE, Vassart G 1989 Identification of a cAMP-responsive region in thyroglobulin gene promoter. *Mol Cell Endocrinol* 64:5-18
75. Devoto M, De Benedetti L, Seia M, Piceni Sereni L, Ferrari M, Bonduelle ML, Malfroot A, Lissens W, Balassopoulou A, Adam G, Loukopoulos D, Cochaux P, Vassart G, Szibor R, Hein J, Grade K, Berger W, Wainwright B, Romeo G 1989 Haplotypes in cystic fibrosis patients with or without pancreatic insufficiency from four european populations. *Genomics* 5:894-898
76. Dong Q, Ludgate M, Vassart G 1989 Towards an antigenic map of human thyroglobulin: identification of ten epitope-bearing sequences within the primary structure of thyroglobulin. *J Endocrinol* 122:169-176
77. Farber CM, Georges M, De Bock G, Verhest A, Simon P, Verschraegen Spaen M, Vassart G 1989 Demonstration of spontaneous XX/XY chimerism by DNA fingerprinting. *Hum Genet* 82:197-198
78. Gerard CM, Lefort A, Christophe D, Libert F, Van Sande J, Dumont JE, Vassart G 1989 Control of thyroperoxidase and thyroglobulin transcription by cAMP: evidence for distinct regulatory mechanisms. *Mol Endocrinol* 3:2110-2118
79. Hansen C, Javaux F, Juvenal G, Vassart G, Christophe D 1989 cAMP-dependent binding of a trans-acting factor to the thyroglobulin promoter. *Biochem Biophys Res Commun* 160:722-731
80. Hilbert P, Marcotte A, Schwers A, Hanset R, Vassart G, Georges M 1989 Analysis of genetic variation in the Belgian Blue cattle breed using DNA sequence polymorphism at the growth hormone, low density lipoprotein receptor, alpha-subunit of glycoprotein hormones and thyroglobulin loci. *Anim Genet* 20:383-393
81. Lefort A, Lecocq R, Libert F, Lamy F, Swillens S, Vassart G, Dumont JE 1989 Cloning and sequencing of a calcium-binding protein regulated by cyclic AMP in the thyroid. *EMBO J* 8:111-116
82. Libert F, Lefort A, Gerard C, Parmentier M, Perret J, C M, Dumont JE, Vassart G 1989 Cloning, sequencing and expression of the human thyrotropin (TSH) receptor: evidence for binding of autoantibodies. *Biochem Biophys Res Commun* 165:1250-1255
83. Libert F, C M, Lefort A, Dinsart C, Van Sande J, Maenhaut C, Simons MJ, Dumont JE, Vassart G 1989 Selective amplification and cloning of four new members of the G protein-coupled receptor family. *Science* 244:569-572
84. Ludgate M, Mariotti S, Libert F, Dinsart C, Piccolo P, Santini F, Ruf J, Pinchera A, Vassart G 1989 Antibodies to human thyroid peroxidase in autoimmune thyroid disease: studies with a cloned recombinant complementary deoxyribonucleic acid epitope. *J Clin Endocrinol Metab* 68:1091-1096
85. Ludgate M, Dong Q, Dreyfus PA, Zakut H, Taylor P, Vassart G, Soreq H 1989 Definition, at the molecular level, of a thyroglobulin- acetylcholinesterase shared epitope: study of its pathophysiological significance in patients with Graves' ophthalmopathy. *Autoimmunity* 3:167-176
86. Mercken L, Simons MJ, Brocas H, Vassart G 1989 Alternative splicing may be responsible for heterogeneity of thyroglobulin structure. *Biochimie* 71:223-226
87. Parmentier M, De Vijlder JJ, Muir E, Szpirer C, Islam MQ, Geurts van Kessel A, Lawson DE, Vassart G 1989 The human calbindin 27-kDa gene: structural organization of the 5' and 3' regions, chromosomal assignment, and restriction fragment length polymorphism. *Genomics* 4:309-319
88. Parmentier M, Szpirer J, Levan G, Vassart G 1989 The human genes for calbindin 27 and 29 kDa proteins are located on chromosomes 8 and 16, respectively. *Cytogenet Cell Genet* 52:85-87
89. Parmentier M, Libert F, Maenhaut C, Lefort A, Gerard C, Perret J, Van Sande J, Dumont JE, Vassart G 1989 Molecular cloning of the thyrotropin receptor. *Science* 246:1620-1622
90. Abramowicz MJ, Vassart G, Christophe D 1990 Thyroid peroxidase gene promoter confers TSH responsiveness to heterologous reporter genes in transfection experiments. *Biochem Biophys Res Commun* 166:1257-1264

91. Elisei R, Mariotti S, Swillens S, Vassart G, Ludgate M 1990 Studies with recombinant autoepitopes of thyroid peroxidase: evidence suggesting an epitope shared between the thyroid and the gastric parietal cell. *Autoimmunity* 8:65-70
92. Georges M, Lathrop M, Bouquet Y, Hilbert P, Marcotte A, Schwers A, Roupain J, Vassart G, Hanset R 1990 Linkage relationships among 20 genetic markers in cattle. Evidence for linkage between two pairs of blood group systems: B- Z and S-F/V respectively. *Anim Genet* 21:95-105
93. Georges M, Lathrop M, Hilbert P, Marcotte A, Schwers A, Swillens S, Vassart G, Hanset R 1990 On the use of DNA fingerprints for linkage studies in cattle. *Genomics* 6:461-474
94. Ledent C, Parmentier M, Vassart G 1990 Tissue-specific expression and methylation of a thyroglobulin-chloramphenicol acetyltransferase fusion gene in transgenic mice. *Proc Natl Acad Sci U S A* 87:6176-6180
95. Lefort A, Passage E, Libert F, Szpirer J, Vassart G, Mattei MG 1990 Localization of human calcyphosine gene (CAPS) to the p13.3 region of chromosome 19 by in situ hybridization. *Cytogenet Cell Genet* 54:154-155
96. Libert F, Parmentier M, Maenhaut C, Lefort A, Gerard C, Perret J, Van Sande J, Dumont JE, Vassart G 1990 Molecular cloning of a dog thyrotropin (TSH) receptor variant. *Mol Cell Endocrinol* 68:R15-R17
97. Libert F, Passage E, Lefort A, Vassart G, Mattei MG 1990 Localization of human thyrotropin receptor gene to chromosome region 14q3 by in situ hybridization. *Cytogenet Cell Genet* 54:82-83
98. Ludgate M, Perret J, Parmentier M, Gerard C, Libert F, Dumont JE, Vassart G 1990 Use of the recombinant human thyrotropin receptor (TSH-R) expressed in mammalian cell lines to assay TSH-R autoantibodies. *Mol Cell Endocrinol* 73:R13-R18
99. Maenhaut C, Van Sande J, Libert F, Abramowicz M, Parmentier M, Vanderhaegen JJ, Dumont JE, Vassart G, Schiffmann S 1990 RDC8 codes for an adenosine A2 receptor with physiological constitutive activity. *Biochem Biophys Res Commun* 173:1169-1178
100. Perret J, Ludgate M, Libert F, Gerard C, Dumont JE, Vassart G, Parmentier M 1990 Stable expression of the human TSH receptor in CHO cells and characterization of differentially expressing clones. *Biochem Biophys Res Commun* 171:1044-1050
101. Perret J, Shia YC, Fries R, Vassart G, Georges M 1990 A polymorphic satellite sequence maps to the pericentric region of the bovine Y chromosome. *Genomics* 6:482-490
102. Pohl V, Roger PP, Christophe D, Pattyn G, Vassart G, Dumont JE 1990 Differentiation expression during proliferative activity induced through different pathways: in situ hybridization study of thyroglobulin gene expression in thyroid epithelial cells. *J Cell Biol* 111:663-672
103. Schiffmann S, Libert F, Vassart G, Vanderhaegen JJ 1990 Distribution of adenosine A2 receptor mRNA in the human brain. *Neuroscience Let* 130:177-181
104. Schiffmann SN, Libert F, Vassart G, Dumont JE, Vanderhaeghen JJ 1990 A cloned G protein-coupled protein with a distribution restricted to striatal medium-sized neurons. Possible relationship with D1 dopamine receptor. *Brain Res* 519:333-337
105. Streydio C, Swillens S, Georges M, Szpirer C, Vassart G 1990 Structure, evolution and chromosomal localization of the human pregnancy-specific beta 1-glycoprotein gene family. *Genomics* 7:661-662
106. Streydio C, Vassart G 1990 Expression of human pregnancy specific beta 1 glycoprotein (PSG) genes during placental development. *Biochem Biophys Res Commun* 166:1265-1273
107. Threadgill DW, Fries R, Faber LK, Vassart G, Gunawardana A, Stranzinger G, Womack JE 1990 The thyroglobulin gene is syntenic with the MYC and MOS protooncogenes and carbonic anhydrase II and maps to chromosome 14 in cattle. *Cytogenet Cell Genet* 53:32-36

108. Van Sande J, Raspe E, Perret J, Lejeune C, Maenhaut C, Vassart G, Dumont JE 1990 Thyrotropin activates both the cyclic AMP and the PIP₂ cascades in CHO cells expressing the human cDNA of TSH receptor. *Mol Cell Endocrinol* 74:R1-R6
109. Brabant G, Maenhaut C, Kohrle J, Scheuman H, Dralle H, Hoang-Vu C, Hesch RD, von zur Muhlen A, Vassart G, Dumont JE 1991 Human thyrotropin receptor gene: expression in thyroid tumors and correlation to markers of thyroid differentiation and dedifferentiation. *Mol Cell Endocrinol* 82:R7-R12
110. Donda A, Vassart G, Christophe D 1991 Isolation and characterization of the canine thyroglobulin gene promoter region. *Biochim Biophys Acta* 1090:235-237
111. Dong Q, Ludgate M, Vassart G 1991 Cloning and sequencing of a novel 64-kDa autoantigen recognized by patients with autoimmune thyroid disease. *J Clin Endocrinol Metab* 72:1375-1381
112. Elisei R, Vassart G, Ludgate M 1991 Demonstration of the existence of the alternatively spliced form of thyroid peroxidase in normal thyroid. *J Clin Endocrinol Metab* 72:700-702
113. Gerard CM, Mollereau C, Vassart G, Parmentier M 1991 Molecular cloning of a human cannabinoid receptor which is also expressed in testis. *Biochem J* 279:129-134
114. Ieiri T, Cochaux P, Targovnik H, Suzuki M, Shimoda SI, Perret J, Vassart G 1991 A 3' splice site mutation in the thyroglobulin gene responsible for congenital goitre with hypothyroidism. *J Clin Invest* 88:1901-1905
115. Javaux F, Donda A, Vassart G, Christophe D 1991 Cloning and sequence analysis of TFE, a helix-loop-helix transcription factor able to recognize the thyroglobulin gene promoter in vitro. *Nucleic Acids Res* 19:1121-1127
116. Ledent C, Dumont J, Vassart G, Parmentier M 1991 Thyroid adenocarcinomas secondary to tissue-specific expression of simian virus-40 large T-antigen in transgenic mice. *Endocrinology* 129:1391-1401
117. Libert F, Passage E, Parmentier M, Simons MJ, Vassart G, Mattei MG 1991 Chromosomal mapping of A1 and A2 adenosine receptors, VIP receptor, and a new subtype of serotonin receptor. *Genomics* 11:225-227
118. Libert F, Ludgate M, Dinsart C, Vassart G 1991 Thyroperoxidase, but not the thyrotropin receptor, contains sequential epitopes recognized by autoantibodies in recombinant peptides expressed in the pUEX vector. *J Clin Endocrinol Metab* 73:857-860
119. Libert F, Schiffmann SN, Lefort A, Parmentier M, Gerard C, Dumont JE, Vanderhaeghen JJ, Vassart G 1991 The orphan receptor cDNA RDC7 encodes an A1 adenosine receptor. *EMBO J* 10:1677-1682
120. Maenhaut C, Van Sande J, Massart C, Dinsart C, Libert F, Monferini E, Giraldo E, Ladinsky H, Vassart G, Dumont JE 1991 The orphan receptor cDNA RDC4 encodes a 5-HT1D serotonin receptor. *Biochem Biophys Res Commun* 180:1460-1468
121. Parmentier M, Passage E, Vassart G, Mattei MG 1991 The human calbindin D28k (CALB1) and calretinin (CALB2) genes are located at 8q21.3---q22.1 and 16q22---q23, respectively, suggesting a common duplication with the carbonic anhydrase isozyme loci. *Cytogenet Cell Genet* 57:41-43
122. Parmentier M, Passage E, Mattei MG, Vassart G 1991 A new human hypervariable locus (k29) maps to the q37.3 region of chromosome 2 and reveals a fingerprint. *Genomics* 11:760-762
123. Themmen A, Blok L, Post M, Baarens M, Hoogerbrugge J, Parmentier M, Vassart G, Grootegoed A 1991 Follitropin receptor downregulation involves a cAMP-dependent post-transcriptional decrease of receptor mRNA expression. *Mol Cell Endocrinol* 78:R7-R13
124. Wallace H, Ledent C, Vassart G, Bishop J, Raya A 1991 Specific ablation of thyroid follicle cells in adult transgenic mice. *Endocrinology* 129:3217-3225
125. Abramowicz M, Vassart G, Christophe D 1992 Functional study of the human thyroperoxidase gene promoter. *Eur J Biochem* 230:467-473

126. Abramowicz MJ, Targovnik HM, Varela V, Cochaux P, Krawiec L, Pisarev MA, Propato FVE, Juvenal G, Chester HA, Vassart G 1992 Identification of a mutation in the coding sequence of the human thyroid peroxidase gene causing congenital goiter. *J Clin Invest* 90:1200-1204
127. Christophe Hobertus C, Donda A, Javaux F, Vassart G, Christophe D 1992 Identification of a transcriptional enhancer upstream from the bovine thyroglobulin gene. *Mol Cell Endocrinol* 88:31-37
128. Costagliola S, Swillens S, Niccoli P, Dumont JE, Vassart G, Ludgate M 1992 Binding assay for thyrotropin receptor autoantibodies using the recombinant receptor protein. *J Clin Endocrinol Metab* 75:1540-1544
129. Eggerickx D, Raspe E, Bertrand D, Vassart G, Parmentier M 1992 Molecular cloning, functional expression and pharmacological characterization a □ human bradykinin B2 receptor gene. *Biochem Biophys Res Commun* 187:1306-1313
130. Erneux C, Roeckel N, Takazawa K, Mailleux P, Vassart G, Mattei MG 1992 Localization of the Genes for Human Inositol 1,4,5-Trisphosphate 3-Kinase A (ITPKA and B (ITPKB) to Chromosome Regions 15q14-q21 and 1q41-Q", respectively, by in Sity Hybridization. *Genomics* 14:546-547
131. Javaux F, Bertaux F, Donda A, Francis-Lang H, Vassart G, diLauro R, Christophe D 1992 Functional role of TTF-1 binding sites in bovine thyroglobulin promoter. *FEBS Lett* 3:222-226
132. Ledent C, Dumont JE, Vassart G, Parmentier M 1992 Thyroid expression of an A2 adenosine receptor transgene induces thyroid hyperplasia and hyperthyroidism. *EMBO J* 11:537-542
133. Libert F, Van Sande J, Lefort A, Czernilofsky A, Dumont JE, Vassart G, Ensinger HA, Mendla KD 1992 Cloning and functional characterization of a human A1 adenosine receptor. *Biochem Biophys Res Commun* 16:919-926:
134. Maenhaut C, Brabant G, Vassart G, Dumont JE 1992 In vitro and in vivo regulation of thyrotropin receptor mRNA levels in dog and human thyroid cells. *J Biol Chem* 15:3000-3007
135. Parmentier M, Libert F, Schurmans S, Schiffmann S, Lefort A, Eggerickx D, Ledent C, Mollereau C, Gerard C, Perret J, Grootegoed A, Vassart G 1992 Expression of members of the putative olfactory receptor gene family in mammalian germ cells. *Nature* 355:453-455
136. Perret J, Raspe E, Vassart G, Parmentier M 1992 Cloning and functional expression of the canine anaphylatoxin C5a receptor: evidence for high interspecies variability. *Biochem J* 288:911-917
137. Pohl V, Maenhaut C, Gerard C, Vassart G, Dumont JE 1992 Differential regulation of Thyrotropin Receptor and Thyroglobulin mRNA accumulation at the Cellular Level: An in Situ Hybridization Study. *Exp Cell Res* 199:392-397
138. Targovnik H, Cochaux P, Corach D, Vassart G 1992 Identification of a minor Thyroglobulin mRNA transcript in RNA from normal and goitrous thyroids. *Mol Cell Endocrinol* 84:R23-R26
139. Van Sande J, Lejeune C, Ludgate M, Munro DS, Vassart G, Dumont JE, Mockel J 1992 Thyroid stimulating immunoglobulins, as thyrotropin, activate both the cyclic AMP and PIP2 cascades in CHO cells expressing the TSH receptor. *Mol Cell Endocrinol* 88:R1-R5
140. Zhang ZG, Dong Q, Rodien P, Alcade L, Bernard N, Boucher A, Salvi M, Arthurs B, Vassart G, Ludgate M, Wall JR 1992 Antibodies in the serum of patients with autoimmune thyroid disorders react with a recombinant 98 amino acid fragment of a full length 64 kDa eye muscle membrane protein which is also expressed in the thyroid. *Autoimmunity* 13:151-157
141. Donda A, Javaux F, Van Renterghem P, Gervy-Dcoster C, Vassart G, Christophe D 1993 Human, bovine, canine and rat thyroglobulin promoter sequences display species-specific differences in an in vitro study. *Mol Cell Endocrinol* 90:R23-R26
142. Elisei R, Weightman D, Kendall-Taylor P, Vassart G, Ludgate M 1993 Muscle autoantigens in thyroid associated ophthalmopathy: the limits of molecular genetics. *J Endocrinol Invest* 16:533-540

143. Mollereau C, Mucatelli F, Mattei MG, Vassart G, Parmentier M 1993 The high-affinity interleukin 8 receptor gene (IL8RA) maps to the 2q33-q36 region of the human genome: cloning of a pseudogene (IL8RBP) for the low-affinity receptor. *Genomics* 16:248-251
144. Parma J, Duprez L, Van Sande J, Cochaux P, Gervy-Decoster C, Mockel J, Dumont JE, Vassart G 1993 Somatic mutations in the thyrotropin receptor gene cause hyperfunctioning thyroid adenomas. *Nature* 365:649-651
145. Paschke R, Elisei R, Vassart G, Ludgate M 1993 Lack of evidence supporting the presence of mRNA for the thyrotropin receptor in extra-ocular muscle. *J Endocrinol Invest* 16:329-332
146. Persani L, Tonacchera M, Beck-Peccoz P, Vitti P, Mammoli L, Chiovato L, Elisei R, Faglia G, Ludgate M, Vassart G, Pinchera A 1993 Measurement of cAMP accumulation in Chinese hamster ovary cells transfected with the recombinant human TSH receptor (CHO-R): a new bioassay for human thyrotropin. *J Endocrinol Invest* 16:511-519
147. Pohl V, Abramowicz M, Vassart G, Dumont JE, Roger P 1993 Thyroperoxidase mRNA in quiescent and proliferating thyroid epithelial cells: expression and subcellular localization studied by in situ hybridization. *Eur J Cell Biol* 62:94-104
148. Schurmans S, Muscatelli F, Miot F, Mattei MG, Vassart G, Parmentier M 1993 The OLFR1 gene encoding the HGMPO7E putative olfactory receptor maps to the 17p13-p12 region of the human genome and reveals an MSpL restriction fragment length polymorphism. *Cytogenet Cell Genet* 63:200-204
149. Targovnik HM, Frechtel GD, Varela V, Wajchenberg BL, Vassart G, Dumont JE, Medeiros-Neto G 1993 Human thyroid tissue do not express thyroalbumin. *J Endocrinol Invest* 16:415-419
150. Targovnik HM, Medeiros-Neto G, Varela V, Cochaux P, Wajchenberg BL, Vassart G 1993 A nonsense mutation causes human hereditary congenital goiter with preferential production of a 171 nucleotide deleted thyroglobulin RNA messenger. *J Clin Endocrinol Metab* 77:210-215
151. Van Sande J, Alleier A, Massart C, Czernilofsky A, Vassart G, Dumont JE, Maenhaut C 1993 The human and dog 5-HT 1D receptors can both activate and inhibit adenylate cyclase in transfected cells. *EJPMOL* 247:177-184
152. Vanderhaeghen P, Schurmans S, Vassart G, Parmentier M 1993 Olfactory receptors are displayed on dog mature sperm cells. *J Cell Biol* 123:1441-1452
153. Vitti P, Elisei R, Tonacchera M, Chiovato L, Mancusi F, Rago T, Mammoli C, Ludgate M, Vassart G, Pinchera A 1993 Detection of thyroid stimulating antibody using chinese hamster ovary cells transfected with cloned human thyrotropin receptor. *J Clin Endocrinol Metab* 76:499-503
154. Costagliola S, Alcade L, Tonacchera M, Ruf J, Vassart G, Ludgate M 1994 Induction of thyrotropin receptor (TSH-R) autoantibodies and thyroiditis in mice immunised with the recombinant TSH-R. *Biochem Biophys Res Commun* 199:1027-1034
155. Costagliola S, Many MC, Stalmans-Falys M, Tonacchera M, Vassart G, Ludgate M 1994 Recombinant thyrotropin receptor and the induction of autoimmune thyroid disease in BALB/c Mice: a new animal model. *Endocrinology* 135:2150-2159
156. Costagliola S, Alcalde L, Ruf J, Vassart G, Ludgate M 1994 Overexpression of the extracellular domain of the thyrotrophin receptor in bacteria; production of thyrotrophin-binding inhibiting immunoglobulins. *J Mol Endo* 13:11-21
157. Desarnaud F, Labbe O, Eggerickx D, Vassart G, Parmentier M 1994 Molecular cloning, functional expression and pharmacological characterization of a mouse melanocortin receptor gene. *Biochem J* 299:367-373
158. Duprez L, Parma J, Van Sande J, Alleier A, Leclère J, Schwartz C, Delisle M-J, Decoulx M, Orgiazzi J, Dumont JE, Vassart G 1994 Germline mutations in the thyrotropin receptor gene cause non-autoimmune autosomal dominant hyperthyroidism. *Nat Gen* 7:396-401

159. Labbe O, Desarnaud F, Eggerickx D, Vassart G, Parmentier M 1994 Molecular Cloning of a Mouse Melanocortin 5 Receptor Gene Widely Expressed in Peripheral Tissues. *Biochemistry* 33:4543-4549
160. Mollereau C, Parmentier M, Mailleux P, Butour JL, Moisand Ch, Chalon P, Caput D, Vassart G, Meunier JC 1994 ORL1, a novel member of the opioid receptor family. Cloning, functional expression and localization. *FEBS Lett* 341:33-38
161. Paschke R, Metcalfe A, Alcade L, Vassart G, Weetman A, Ludgate M 1994 Presence of nonfunctional thyrotropin receptor variant transcripts in retroocular and other tissues. *J Clin Endocrinol Metab* 79:1234-1238
162. Paschke R, Parmentier M, Vassart G 1994 Importance of the extracellular domain of the human thyrotrophin receptor for activation of cyclic AMP production. *J Mol Endo* 13:199-207
163. Paschke R, Tonacchera M, Van Sande J, Parma J, Vassart G 1994 Identification and functional characterization of two new somatic mutations causing constitutive activation of the thyrotropin receptor in hyperfunctioning autonomous adenomas of the thyroid. *J Clin Endocrinol Metab* 79:1785-1789
164. Pichon B, Christophe Hobertus C, Vassart G, Christophe D 1994 Unmethylated thyroglobulin promoter may be repressed by methylation of flanking DNA sequences. *Biochem J* 298:537-541
165. Potter E, Horn R, Scheumann GFW, Dralle H, Costagliola S, Ludgate M, Vassart G, Dumont JE, Brabant G 1994 Western blot analysis of thyrotropin receptor expression in human thyroid tumours and correlation with TSH-binding. *Biochem Biophys Res Commun* 205:361-367
166. Cetani F, Costagliola S, Tonacchera M, Panneels V, Vassart G, Ludgate M 1995 The thyroperoxidase doublet is not produced by alternative splicing. *Mol Cell Endocrinol* 115:125-132
167. Costagliola S, Many MC, Stalmans-Falys M, Vassart G, Ludgate M 1995 The autoimmune response induced by immunising female mice with recombinant human thyrotropin receptor varies with the genetic background. *Mol Cell Endocrinol* 115:119-206
168. Eggerickx D, Denef J-F, Labbe O, Hayashi Y, Refetoff S, Vassart G, Parmentier M, Libert F 1995 Molecular cloning of an orphan G protein-coupled receptor that constitutively activates adenylyl cyclase. *Biochem J* 309:837-843
169. Kajava AV, Vassart G, Wodak SJ 1995 Modeling of the three-dimensional structure of proteins with the typical leucine-rich repeats. *Structure* 3:867-877
170. Kopp P, Van Sande J, Parma J, Duprez L, Gerber H, Joss E, Jameson L, Dumont JE, Vassart G 1995 Brief report: congenital hyperthyroidism caused by a mutation in the thyrotropin receptor gene. *N Engl J Med* 19:150-154
171. Ledent C, Parma J, Pirson I, Taton M, Roger P, Maenhaut C, Van Sande J, Pohl V, Lamy F, Parmentier M, Vassart G, Dumont JE 1995 Positive control of proliferation by the cyclic AMP cascade: An oncogenic mechanism of hyper-functional adenoma. *J Endocrinol Invest* 18:120-122
172. Ledent C, Marcotte A, Dumont JE, Vassart G, Parmentier M 1995 Differentiated carcinomas develop as a consequence of the thyroid specific expression of a thyroglobulin-human papillomavirus type 16 E7 transgene. *Oncogene* 10:1789-1797
173. Meunier JC, Mollereau C, Toll L, Suaudeau C, Moisand C, Alvinerie P, Butour JL, Guillemot JC, Ferrara P, Monserrat B, Mazarguil H, Vassart G, Parmentier M, Costentin J 1995 Isolation and structure of the endogenous agonist of opioid receptor-like ORL1 receptor. *Nature* 377:532-535
174. Parma J, Van Sande J, Swillens S, Tonacchera M, Dumont JE, Vassart G 1995 Somatic mutations causing constitutive activity of the thyrotropin receptor are the major cause of hyperfunctioning thyroid adenomas: identification of additional mutations activating both the cyclic adenosine 3', 5'- monophosphate and inositol phosphate-Ca²⁺ cascades. *Mol Endocrinol* 9:725-733
175. Paschke R, Vassart G, Ludgate M 1995 Current evidence for and against the TSH receptor being the common antigen in Graves' disease and thyroid associated ophthalmopathy. *Clin Endo* 42:565-569

176. Van Renterghem P, Dremier S, Vassart G, Christophe D 1995 Study of TTF-1 gene expression in dog thyrocytes in primary culture. *Mol Cell Endocrinol* 112:83-93
177. Van Sande J, Swillens S, Gerard C, Allgeier A, Massart C, Vassart G, Dumont JE 1995 In Chinese hamster ovary K1 cells Dog and human thyrotropin receptors activate both the cyclic AMP and the phosphatidylinositol 4,5-bisphosphate cascades in the presence of thyrotropin and the cyclic AMP cascade in its absence. *Eur J Biochem* 229:338-343
178. Berg V, Vassart G, Christophe D 1996 Identification of a thyroid-specific and cAMP-responsive enhancer in the upstream sequences of the human thyroglobulin promoter. *Biochim Biophys Acta* 1307:35-38
179. Cetani F, Tonacchera M, Vassart G 1996 Differential effects of NaCl concentration on the constitutive activity of the thyrotropin and the luteinizing hormone/chorionic gonadotropin receptors. *FEBS Lett* 378:27-31
180. Coppée F, Gérard AC, Denef J-F, Ledent C, Vassart G, Dumont JE, Parmentier M 1996 Early occurrence of metastatic differentiated thyroid carcinomas in transgenic mice expressing the A2a adenosine receptor gene and the human papillomavirus type 16 E7 oncogene. *Oncogene* 13:1471-1482
181. Costagliola S, Many MC, Stalmans-Falys M, Vassart G, Ludgate M 1996 Transfer of thyroiditis, with syngeneic spleen cells sensitized with the human thyrotropin receptor, to naive BALB/c and NOD mice. *Endocrinology* 137:4637-4643
182. Mollereau C, Simons MJ, Soularue P, Liners F, Vassart G, Meunier JC, Parmentier M 1996 Structure, tissue distribution, and chromosomal localization of the prepronociceptin gene. *Proc Natl Acad Sci U S A* 93:8666-8670
183. Rucker J, Samson M, Doranz BJ, Libert F, Berson JF, Yanjie Y, Smyth RJ, Collman RG, Broder CC, Vassart G, Doms RW, Parmentier M 1996 Regions in B-chemokine receptors CCR5 and CCR2b that determine HIV-1 cofactor specificity. *Cell* 87:437-446
184. Samson M, Libert F, Doranz BJ, Rucker J, Liesnard C, Farber CM, Saragosti S, Lapouméroulie C, Cognaux J, Forceille C, Muyldermans G, Verhofstede C, Burtonboy G, Georges M, Imai T, Rana S, Yi Y, Smyth RJ, Collman RG, Doms RW, Vassart G, Parmentier M 1996 Resistance to HIV-1 infection in caucasian individuals bearing mutant alleles of the CCR-5 chemokine receptor gene. *Nature* 382:722-725
185. Samson M, Stordeur P, Labbe O, Soularue P, Vassart G, Parmentier M 1996 Molecular cloning and chromosomal mapping of a novel human gene, ChemR1, expressed in T lymphocytes and polymorphonuclear cells and encoding a putative chemokine receptor. *Eur J Immunol* 26:3021-3028
186. Samson M, Labbe O, Mollereau C, Vassart G, Parmentier M 1996 Molecular cloning and functional expression of a new human CC-Chemokin receptor gene. *Biochemistry* 35:3362-3367
187. Samson M, Soularue P, Vassart G, Parmentier M 1996 The genes encoding the human CC-Chemokine receptors CC-CKR1 to CC-CKR5 (CMKBR1-CMKBR5) are clustered in the p21.3-p24 region of chromosome 3. *Genomics* 36:522-526
188. Tonacchera M, Van Sande J, Cetani F, Swillens S, Schwartz C, Winiszewski L, Portmann L, Dumont JE, Vassart G, Parma J 1996 Functional characteristics of three new germline mutations of the thyrotropin receptor gene causing autosomal dominant toxic thyroid hyperplasia. *J Clin Endocrinol Metab* 81:547-554
189. Tonacchera M, Costagliola S, Cetani F, Ducobu J, Stordeur P, Vassart G, Ludgate M 1996 Patient with monoclonal gammopathy, thyrotoxicosis, pretibial myxedema and thyroid-associated ophthalmopathy; demonstration of direct binding of autoantibodies to the thyrotropin receptor. *Eur J Endo* 134:87-103
190. Tonacchera M, Cetani F, Costagliola S, Van Sande J, Refetoff S, Vassart G 1996 Functional characteristics of a variant thyrotropin receptor. *Eur J Biochem* 238:490-494
191. Van Renterghem P, Vassart G, Christophe D 1996 Pax 8 expression in primary cultured dog thyrocyte is increased by cyclic AMP. *Biochim Biophys Acta* 1307:97-103

192. Van Sande J, Massart C, Costagliola S, Alleier A, Cetani F, Vassart G, Dumont JE 1996 Specific activation of the thyrotropin receptor by trypsin. *Mol Cell Endocrinol* 119:161-168
193. Abramowicz MJ, Duprez L, Parma J, Vassart G, Heinrichs C 1997 Familial congenital hypothyroidism due to inactivating mutation of the thyrotropin receptor causing profound hypoplasia of the thyroid gland. *J Clin Invest* 99:3018-3024
194. Berg V, Vassart G, Christophe D 1997 A zinc-dependent DNA-binding activity co-operates with cAMP-responsive-element-binding protein to activate the human thyroglobulin enhancer. *Biochem J* 323:349-357
195. Duprez L, Hermans J, Van Sande J, Dumont JE, Vassart G, Parma J 1997 Two autonomous nodules of a patient with multinodular goiter harbor different activating mutations of the thyrotropin receptor gene. *J Clin Endocrinol Metab* 82:306-308
196. Duprez L, Parma J, Costagliola S, Hermans J, Van Sande J, Dumont JE, Vassart G 1997 Constitutive activation of the TSH receptor by spontaneous mutations affecting the N-terminal extracellular domain. *FEBS Lett* 409:469-474
197. Ledent C, Denef JF, Cottecchia S, Lefkowitz R, Dumont J, Vassart G, Parmentier M 1997 Costimulation of adenylyl cyclase and phospholipase C by a mutant alpha 1B-adrenergic receptor transgene promotes malignant transformation of thyroid follicular cells. *Endocrinology* 138:369-378
198. Ledent C, Vaugeois JM, Schiffmann SN, Pedrazzini T, El yacoubi M, Vanderhaeghen JJ, Costentin J, Heath JK, Vassart G, Parmentier M 1997 Aggressiveness, hypoalgesia and high blood pressure in mice lacking the adenosine A2a receptor. *Nature* 388:674-678
199. Mendive FM, Rossetti LC, Vassart G, Targovnik HM 1997 Identification of a new thyroglobulin variant: a guanine-to-adenine transition resulting in the substitution of arginine 2510 by glutamine. *Thyroid* 7:587-591
200. Parma J, Duprez L, Van Sande J, Hermans J, Rocmans P, Van Vliet G, Costagliola S, Rodien P, Dumont JE, Vassart G 1997 Diversity and prevalence of somatic mutations in the thyrotropin receptor and Gs alpha genes as a cause of toxic thyroid adenomas. *J Clin Endocrinol Metab* 82:2695-2701
201. Rana S, Besson G, Cook DG, Rucker J, Smyth RJ, Yi Y, Turner JD, Guo HH, Du JG, Peiper SC, Lavi E, Samson M, Libert F, Liesnard C, Vassart G, Doms RW, Parmentier M, Collman RG 1997 Role of CCR5 in infection of primary macrophages and lymphocytes by macrophage-tropic strains of human immunodeficiency virus: resistance to patient-derived and prototype isolates resulting from the delta ccr5 mutation. *J Virol* 71:3219-3227
202. Samson M, LaRosa G, Libert F, Paindavoine P, Detheux M, Vassart G, Parmentier M 1997 The second extracellular loop of CCR5 is the major determinant of ligand specificity. *J Biol Chem* 272:24934-24941
203. Vanderhaeghen P, Schurmans S, Vassart G, Parmentier M 1997 Specific repertoire of olfactory receptor genes in the male germ cells of several mammalian species. *Genomics* 39:239-246
204. Vanderhaeghen P, Schurmans S, Vassart G, Parmentier M 1997 Molecular cloning and chromosomal mapping of olfactory receptor genes expressed in the male germ line: evidence for their wide distribution in the human genome. *Biochem Biophys Res Commun* 237:283-287
205. Xie J, Pannain S, Pohlenz J, Weiss RE, Moltz K, Morlot M, Asteria C, Persani L, Beck Peccoz P, Parma J, Vassart G, Refetoff S 1997 Resistance to thyrotropin (TSH) in three families is not associated with mutations in the TSH receptor or TSH [see comments]. *J Clin Endocrinol Metab* 82:3933-3940
206. Costagliola S, Khoo D, Vassart G 1998 Production of bioactive aminoterminal domain of the thyrotropin receptor via insertion in the plasma membrane by a glycosylphosphatidylinositol anchor. *FEBS Lett* 436:427-433
207. Costagliola S, Rodien P, Many MC, Ludgate M, Vassart G 1998 Genetic immunization against the human thyrotropin receptor causes thyroiditis and allows production of monoclonal antibodies recognizing the native receptor. *J Immunol* 160:1458-1465

208. Gagne N, Parma J, Deal C, Vassart G, Van Vliet G 1998 Apparent congenital athyreosis contrasting with normal plasma thyroglobulin levels and associated with inactivating mutations in the thyrotropin receptor gene: are athyreosis and ectopic thyroid distinct entities? *J Clin Endocrinol Metab* 83:1771-1775
209. Libert F, Cochaux P, Beckman G, Samson M, Aksanova M, Cao A, Czeizel A, Claustres M, de la Rua C, Ferrari M, Ferrec C, Glover G, Grinde B, Güran S, Kucinskas V, Lavinha J, Mercier B, Ogur G, Peltonen L, Rosatelli C, Schwartz M, Spitsyn V, Timar L, Beckman L, Parmentier M, Vassart G 1998 The ccr5 mutation conferring protection against HIV-1 in Causasian populations has a single and recent origin in Northeastern Europe. *Human Molecular Genetics* 7:399-406
210. Rodien P, Cetani F, Costagliola S, Tonacchera M, Duprez L, Minegishi T, Govaerts C, Vassart G 1998 Evidences for an allelic variant of the human LC/CG receptor rather than a gene duplication: functional comparison of wild-type and variant receptors [In Process Citation]. *J Clin Endocrinol Metab* 83:4431-4434
211. Rodien P, Brémont C, Raffin ML, Parma J, Van Sande J, Costagliola S, luton JP, Vassart G, Duprez L 1998 Familial gestational hyperthyroidism caused by a mutant thyrotropin receptor hypersensitive to human chorionic gonadotropin. *N Engl J Med* 339:1823-1826
212. Samson M, Edinger AL, Stordeur P, Rucker J, Verhasselt V, Sharron M, Govaerts C, Mollereau C, Vassart G, Doms RW, Parmentier M 1998 ChemR23, a putative chemoattractant receptor, is expressed in monocyte-derived dendritic cells and macrophages and is a coreceptor for SIV and some primary HIV-1 strains. *Eur J Immunol* 28:1689-1700
213. Targovnik HM, Frechtel GD, Mendive FM, Vono J, Cochaux P, Vassart G, Medeiros Neto G 1998 Evidence for the segregation of three different mutated alleles of the thyroglobulin gene in a Brazilian family with congenital goiter and hypothyroidism. *Thyroid* 8:291-297
214. Blanpain C, Lee B, Vakili J, Doranz BJ, Govaerts C, Migeotte I, Sharron M, Dupriez V, Vassart G, Doms RW, Parmentier M 1999 Extracellular cysteines of CCR5 are required for chemokine binding, but dispensable for HIV-1 coreceptor activity. *J Biol Chem* 274:18902-18908
215. Blanpain C, Migeotte I, Lee B, Vakili J, Doranz BJ, Govaerts C, Vassart G, Doms RW, Parmentier M 1999 CCR5 binds multiple CC-chemokines: MCP-3 acts as a natural antagonist. *Blood* 94:1899-1905
216. Blanpain C, Doranz BJ, Vakili J, Rucker J, Govaerts C, Baik SS, Lorthioir O, Migeotte I, Libert F, Baleux F, Vassart G, Doms RW, Parmentier M 1999 Multiple charged and aromatic residues in CCR5 amino-terminal domain are involved in high affinity binding of both chemokines and HIV-1 Env protein. *J Biol Chem* 274:34719-34727
217. Costagliola S, Morgenthaler NG, Hoermann R, Badenhoop K, Struck J, Freitag D, Poertl S, Weglohner W, Hollidt JM, Quadbeck B, Dumont JE, Schumm-Draeger PM, Bergmann A, Mann K, Vassart G, Usadel KH 1999 Second generation assay for thyrotropin receptor antibodies has superior diagnostic sensitivity for Graves' disease. *J Clin Endocrinol Metab* 84:90-97
218. Costagliola S, Sunthorntepvarakul T, Migeotte I, Van Sande J, Kajava AM, Refetoff S, Vassart G 1999 Structure-function relationships of two loss-of-function mutations of the thyrotropin receptor gene. *Thyroid* 9:995-1000
219. Esapa CT, Duprez L, Ludgate M, Mustafa MS, Kendall-Taylor P, Vassart G, Harris PE 1999 A novel thyrotropin receptor mutation in an infant with severe thyrotoxicosis. *Thyroid* 9:1005-1010
220. Khoo DH, Parma J, Rajasoorya C, Ho SC, Vassart G 1999 A germline mutation of the thyrotropin receptor gene associated with thyrotoxicosis and mitral valve prolapse in a Chinese family. *J Clin Endocrinol Metab* 84:1459-1462
221. Lavard L, Sehested A, Brock JB, Muller J, Perrild H, Feldt-Rasmussen U, Parma J, Vassart G 1999 Long-term follow-Up of an infant with thyrotoxicosis due to germline mutation of the TSH receptor gene (Met453Thr). *Horm Res* 51:43-46

222. Ledent C, Valverde O, Cossu G, Petitet F, Aubert JF, Beslot F, Bohme GA, Imperato A, Pedrazzini T, Roques BP, Vassart G, Fratta W, Parmentier M 1999 Unresponsiveness to cannabinoids and reduced addictive effects of opiates in CB1 receptor knockout mice. *Science* 283:401-404
223. Maho A, Carter A, Bensimon A, Vassart G, Parmentier M 1999 Physical mapping of the CC-chemokine gene cluster on the human 17q11.2 region. *Genomics* 59:213-223
224. Maho A, Bensimon A, Vassart G, Parmentier M 1999 Mapping of the CCXCR1, CX3CR1, CCBP2 and CCR9 genes to the CCR cluster within the 3p21.3 region of the human genome. *Cytogenet Cell Genet* 87:265-268
225. Many MC, Costagliola S, Detrait M, Denef F, Vassart G, Ludgate MC 1999 Development of an animal model of autoimmune thyroid eye disease. *J Immunol* 162:4966-4974
226. Mendive FM, Rivolta CM, Vassart G, Targovnik HM 1999 Genomic organization of the 3' region of the human thyroglobulin gene. *Thyroid* 9:903-912
227. Pichon B, Vassart G, Christophe D 1999 A canonical nerve growth factor-induced gene-B response element appears not to be involved in the cyclic adenosine monophosphate-dependent expression of differentiation in thyrocytes. *Mol Cell Endocrinol* 154:21-27
228. Tiosano D, Pannain S, Vassart G, Parma J, Gershoni-Baruch R, Mandel H, Lotan R, Zaharan Y, Pery M, Weiss RE, Refetoff S, Hochberg Z 1999 The hypothyroidism in an inbred kindred with congenital thyroid hormone and glucocorticoid deficiency is due to a mutation producing a truncated thyrotropin receptor. *Thyroid* 9:887-894
229. Blanpain C, Lee B, Tackoen M, Puffer B, Boom A, Libert F, Sharron M, Wittamer V, Vassart G, Doms RW, Parmentier M 2000 Multiple nonfunctional alleles of CCR5 are frequent in various human populations. *Blood* 96:1638-1645
230. Chin HS, Chin DK, Morgenthaler NG, Vassart G, Costagliola S 2000 Rarity of anti- Na⁺/I⁻ symporter (NIS) antibody with iodide uptake inhibiting activity in autoimmune thyroid diseases (AITD) [In Process Citation]. *J Clin Endocrinol Metab* 85:3937-3940
231. Costagliola S, Many MC, Denef JF, Pohlenz J, Refetoff S, Vassart G 2000 Genetic immunization of outbred mice with thyrotropin receptor cDNA provides a model of Graves' disease. *J Clin Invest* 105:803-811
232. De Deken, X, Wang D, Many MC, Costagliola S, Libert F, Vassart G, Dumont JE, Miot F 2000 Cloning of two human thyroid cDNAs encoding new members of the NADPH oxidase family. *J Biol Chem* 275:23227-23233
233. Detheux M, Standker L, Vakili J, Munch J, Forssmann U, Adermann K, Pohlmann S, Vassart G, Kirchhoff F, Parmentier M, Forssmann WG 2000 Natural proteolytic processing of hemofiltrate CC chemokine 1 generates a potent CC chemokine receptor (CCR)1 and CCR5 agonist with anti-HIV properties. *J Exp Med* 192:1501-1508
234. Heinrichs C, Parma J, Scherberg NH, Delange F, Van Vliet G, Duprez L, Bourdoux P, Bergmann P, Vassart G, Refetoff S 2000 Congenital central isolated hypothyroidism caused by a homozygous mutation in the TSH-beta subunit gene. *Thyroid* 10:387-391
235. Mircescu H, Parma J, Huot C, Deal C, Oligny LL, Vassart G, Van Vliet G 2000 Hyperfunctioning malignant thyroid nodule in an 11-year-old girl: pathologic and molecular studies. *J Pediatr* 137:585-587
236. Moya CM, Mendive FM, Rivolta CM, Vassart G, Targovnik HM 2000 Genomic organization of the 5' region of the human thyroglobulin gene. *Eur J Endocrinol* 143:789-798
237. Pohlenz J, Duprez L, Weiss RE, Vassart G, Refetoff S, Costagliola S 2000 Failure of membrane targeting causes the functional defect of two mutant sodium iodide symporters [see comments]. *J Clin Endocrinol Metab* 85:2366-2369
238. Demeester R, Parma J, Cochaux P, Vassart G, Abramowicz MJ 2001 A rare variant, I852M, of the RET proto-oncogene in a patient with medullary thyroid carcinoma at age 20 years. *Hum Mutat* 17:354

239. Govaerts C, Blanpain C, Deupi X, Ballet S, Ballesteros JA, Wodak SJ, Vassart G, Pardo L, Parmentier M 2001 The TXP Motif in the Second Transmembrane Helix of CCR5. A STRUCTURAL DETERMINANT OF CHEMOKINE-INDUCED ACTIVATION. *J Biol Chem* 276:13217-13225
240. Vilain C, Rydlewska C, Duprez L, Heinrichs C, Abramowicz M, Malvaux P, Renneboog B, Parma J, Costagliola S, Vassart G 2001 Autosomal dominant transmission of congenital thyroid hypoplasia due to loss-of-function mutation of PAX8. *J Clin Endocrinol Metab* 86:234-238
241. Govaerts C, Lefort A, Costagliola S, Wodak SJ, Ballesteros JA, Van Sande J, Pardo L, Vassart G 2001 A conserved Asn in transmembrane helix 7 is an on/off switch in the activation of the thyrotropin receptor. *J Biol Chem* 276: 22991-22999.
242. Blanpain C, Wittamer V, Vanderwinden JM, Boom A, Renneboog B, Lee B, Le Poul E, El Asmar L, Govaerts C, Vassart G 2001. Doms RW, Parmentier M. Palmitoylation of CCR5 is critical for receptor trafficking and efficient activation of intracellular signaling pathways. *J Biol Chem* 276: 23795-23804.
243. Bretones P, Duprez L, Parma J, David M, Vassart G, Rodien P. A familial case of congenital hypothyroidism caused by a homozygous mutation of the thyrotropin receptor gene. *Thyroid* 11: 977-980., 2001.
242. Kotani M, Detheux M, Vandebogaerde A, Communi D, Vanderwinden JM, Le Poul E, Brezillon S, Tyldesley R, Suarez-Huerta N, Vandeput F, Blanpain C, Schiffmann SN, Vassart G, Parmentier M 2001 The metastasis suppressor gene KiSS-1 encodes kisspeptins, the natural ligands of the orphan G protein-coupled receptor GPR54. *J Biol Chem* 276: 34631-34636.
243. Mendive FM, Rivolta CM, Moya CM, Vassart G, Targovnik HM 2001 Genomic organization of the human thyroglobulin gene: the complete intron-exon structure. *Eur J Endocrinol* 145: 485-496.
244. Albuquerque-Silva J, Vassart G, Lavinha J, Abramowicz MJ 2001 Chimeroplasty validation. *Nat Biotechnol* 19: 1011.
245. Cornelis S, Uttenweiler-Joseph S, Panneels V, Vassart G, Costagliola S. 2001 Purification and characterization of a soluble bioactive amino-terminal extracellular domain of the human thyrotropin receptor. *Biochemistry* 40: 9860-9869.
246. Corvilain B, Van Sande J, Dumont JE, Vassart G 2001 Somatic and germline mutations of the TSH receptor and thyroid diseases. *Clin Endocrinol (Oxf)* 55: 143-158.
247. Gulbis B, Cotton F, Hansen V, Ferster A, Toppet M, Cochaux P, Parma J, Vassart G 2001 Fondu P, Vertogenen F. [Prevention of hemoglobinopathies in Brussels: a necessity?]. *Rev Med Brux* 22: 133-140.
248. Heimann P, El Housni H, Ogur G, Weterman MA, Petty EM, Vassart G 2001 Fusion of a novel gene, RCC17, to the TFE3 gene in t(X;17)(p11.2;q25.3)- bearing papillary renal cell carcinomas. *Cancer Res* 61: 4130-4135.
249. Ho SC, Van Sande J, Lefort A, Vassart G 2001 Costagliola S. Effects of mutations involving the highly conserved S281HCC motif in the extracellular domain of the thyrotropin (TSH) receptor on TSH binding and constitutive activity. *Endocrinology* 142: 2760-2767.
250. Kotani M, Mollereau C, Detheux M, Le Poul E, Brezillon S, Vakili J, Mazarguil H, Vassart G, Zajac JM, Parmentier M 2001 Functional characterization of a human receptor for neuropeptide FF and related peptides. *Br J Pharmacol* 133: 138-144.
251. Vakili J, Standker L, Detheux M, Vassart G, Forssmann WG, Parmentier M. 2001 Urokinase plasminogen activator and plasmin efficiently convert hemofiltrate CC chemokine 1 into its active. *J Immunol* 167: 3406-3413.
252. Costagliola S, Panneels V, Bonomi M, Koch J, Many MC, Smits G, Vassart G. 2002 Tyrosine sulfation is required for agonist recognition by glycoprotein hormone receptors. *Embo J* 21: 504-513.
253. Blanpain C, Vanderwinden JM, Cihak J, Wittamer V, Le Poul E, Issafrahs H, Stangassinger M, Vassart G, Marullo S, Schlendorff D, Parmentier M, Mack M. 2002 Multiple Active States and Oligomerization of CCR5 Revealed by Functional Properties of Monoclonal Antibodies. *Mol Biol Cell* 13: 723-737.

254. Vlaeminck-Guillem V, Ho S-C, Rodien P, Vassart G, Costagliola S. 2002 Activation of the CaMP of the cAMP pathway by the thyrotropin receptor involves switching of the ectodomain from a tethered inverse agonist to an agonist. *Mol. Endocrinol.*. 16:736-746.
255. Smits G, Govaerts C, Nubourgh I, Pardo L, Vassart G, Costagliola S. 2002 Lysine 183 and glutamic acid 157 of the thyrotropin receptor : two interacting residues with a key role in determining specificity towards TSH and hCG. *Mol. Endocrinol.* 16:722-735.
256. Claeysen S, Govaerts C, Lefort A, Van Sande J, Costagliola S, Pardo L, Vassart G. 2002 A conserved Asn in TM7 of the thyrotropin receptor is a common requirement for activation by both mutations and its natural agonist. *FEBS Lett.* 517:195-200.
257. Torfs H, Detheux M, Oonk HB, Akerman KE, Poels J, Loy TV, Loof AD, Vassart G, Parmentier M, Broeck JV. Analysis of C-terminally substituted tachykinin-like peptide agonists by means of aequorin-based luminescent assays for human and insect neurokinin receptors. *Biochem Pharmacol.* 2002 May 1;63(9):1675-82.
258. Perry R, Heinrichs C, Bourdoux P, Khouri K, Szots F, Dussault JH, Vassart G, Van Vliet G. Discordance of monozygotic twins for thyroid dysgenesis: implications for screening and for molecular pathophysiology. *J Clin Endocrinol Metab.* 2002 Sep;87(9):4072-7.
259. Vanvooren V, Uchino S, Duprez L, Costa MJ, Vandekerckhove J, Parma J, Vassart G, Dumont JE, Van Sande J, Noguchi S. Oncogenic mutations in the thyrotropin receptor of autonomously functioning thyroid nodules in the Japanese population. *Eur J Endocrinol.* 2002 Sep;147(3):287-91.
260. Torfs H, Akerman KE, Nachman RJ, Oonk HB, Detheux M, Poels J, Loy TV, Loof AD, Meloen RH, Vassart G, Parmentier M, Broeck JV. Functional analysis of synthetic insect tachykinin analogs on recombinant neurokinin receptor expressing cell lines. *Peptides.* 2002 Nov;23(11):1999-2005.
261. Costagliola S, Franssen JD, Bonomi M, Urizar E, Willnich M, Bergmann A, Vassart G. Generation of a mouse monoclonal TSH receptor antibody with stimulating activity. *Biochem Biophys Res Commun.* 2002 Dec 20;299(5):891-6.
262. Blanpain C, Doranz BJ, Bondue A, Govaerts C, De Leener A, Vassart G, Doms RW, Proudfoot A, Parmentier M. The core domain of chemokines binds CCR5 extracellular domains while their amino terminus interacts with the transmembrane helix bundle. *J Biol Chem.* 2003 Feb 14;278(7):5179-87. Epub 2002 Dec 03.
263. Vilain C, Libert F, Venet D, Costagliola S, Vassart G. Small amplified RNA-SAGE: an alternative approach to study transcriptome from limiting amount of mRNA. *Nucleic Acids Res.* 2003 Mar 15;31(6):e24.
264. Le Poul E, Loison C, Struyf S, Springael JY, Lannoy V, Decobecq ME, Brezillon S, Dupriez V, Vassart G, Van Damme J, Parmentier M, Detheux M. Functional characterization of human receptors for short chain fatty acids and their role in polymorphonuclear cells activation. *J Biol Chem.* 2003 Apr 23 [Epub ahead of print]
265. Smits G, Campillo M, Govaerts C, Janssens V, Richter C, Vassart G, Pardo L, Costagliola S. Glycoprotein hormone receptors: determinants in leucine-rich repeats responsible for ligand specificity. *EMBO J.* 2003 Jun 2;22(11):2692-703.
266. Guillaume Smits, M.D., Olufemi Olatunbosun, M.B., F.R.C.S.C., Anne Delbaere, M.D., Ph.D., Roger Pierson, M.S., Ph.D., Gilbert Vassart, M.D., Ph.D., and Sabine Costagliola, Ph.D. 2003. Spontaneous ovarian hyperstimulation syndrome caused by a follitropin receptor mutation. *New Engl. J Med* 349, 760-766.
- 267 Blanpain,C., Le Poul,E., Parma,J., Knoop,C., Detheux,M., Parmentier,M., Vassart,G., & Abramowicz,M.J. (2003). Serotonin 5-HT(2B) receptor loss of function mutation in a patient with fenfluramine-associated primary pulmonary hypertension
20. *Cardiovasc. Res.*, 60, 518-528.
- 268 Blanpain,C., Doranz,B.J., Bondue,A., Govaerts,C., De Leener,A., Vassart,G., Doms,R.W., Proudfoot,A., & Parmentier,M. (2003). The core domain of chemokines binds CCR5 extracellular domains while their amino terminus interacts with the transmembrane helix bundle. *J. Biol. Chem.*, 278, 5179-5187.

- 269 El Housni,H., Heimann,P., Parma,J., & Vassart,G. (2003). Single-nucleotide polymorphism genotyping by melting analysis of dual-labeled probes: examples using factor V Leiden and prothrombin 20210A mutations
22. Clin. Chem., 49, 1669-1672.
- 270 Gonzalez-Merino,E., Emiliani,S., Vassart,G., Van Den Bergh,M., Vannin,A.S., Abramowicz,M., Delneste,D., & Englert,Y. (2003). Incidence of chromosomal mosaicism in human embryos at different developmental stages analyzed by fluorescence in situ hybridization. *Genetic Testing* , 7, 85-95.
- 271 Le Poul,E., Loison,C., Struyf,S., Springael,J.Y., Lannoy,V., Decobecq,M.E., Brezillon,S., Dupriez,V., Vassart,G., Van Damme,J., Parmentier,M., & Dethieux,M. (2003). Functional characterization of human receptors for short chain fatty acids and their role in polymorphonuclear cell activation. *J. Biol. Chem.*, 278, 25481-25489.
- 272 Rodien,P., Ho,S.C., Vlaeminck,V., Vassart,G., & Costagliola,S. (2003). Activating mutations of TSH receptor. *Annales D Endocrinologie*, 64, 12-16.
- 273 Wittamer,V., Franssen,J.D., Vulcano,M., Mirjolet,J.F., Le Poul,E., Migeotte,I., Brezillon,S., Tyldesley,R., Blanpain,C., Dethieux,M., Mantovani,A., Sozzani,S., Vassart,G., Parmentier,M., & Communi,D. (2003). Specific Recruitment of Antigen-presenting Cells by Chemerin, a Novel Processed Ligand from Human Inflammatory Fluids. *J. Exp. Med.*, 198, 977-985.
- 274 Daelemans,C., Smits,G., de,M., V, Costagliola,S., Englert,Y., Vassart,G., & Delbaere,A. (2004). Prediction of severity of symptoms in iatrogenic ovarian hyperstimulation syndrome by follicle-stimulating hormone receptor Ser680Asn polymorphism
J Clin. Endocrinol. Metab., 89, 6310-6315.
- 275 Delbaere,A., Smits,G., Olatubosun,O., Pierson,R., Vassart,G., & Costagliola,S. (2004). New insights into the pathophysiology of ovarian hyperstimulation syndrome. What makes the difference between spontaneous and iatrogenic syndrome?
Hum. Reprod., 19, 486-489.
- 276 Lavard,L., Jacobsen,B.B., Perrild,H., Vassart,G., & Parma,J. (2004). Prevalence of germline mutations in the TSH receptor gene as a cause of juvenile thyrotoxicosis
Acta Paediatr., 93, 1192-1194.
- 277 Meeus,L., Gilbert,B., Rydlewski,C., Parma,J., Roussie,A.L., Abramowicz,M., Vilain,C., Christophe,D., Costagliola,S., & Vassart,G. (2004). Characterization of a novel loss of function mutation of PAX8 in a familial case of congenital hypothyroidism with in-place, normal-sized thyroid
J Clin. Endocrinol. Metab., 89, 4285-4291.
- 278 Montanelli,L., Delbaere,A., Di Carlo,C., Nappi,C., Smits,G., Vassart,G., & Costagliola,S. (2004). A mutation in the follicle-stimulating hormone receptor as a cause of familial spontaneous ovarian hyperstimulation syndrome
J Clin. Endocrinol. Metab., 89, 1255-1258.
- 279 Montanelli,L., Van Durme,J.J., Smits,G., Bonomi,M., Rodien,P., Devor,E.J., Moffat-Wilson,K., Pardo,L., Vassart,G., & Costagliola,S. (2004). Modulation of ligand selectivity associated with activation of the transmembrane region of the human follitropin receptor *Mol. Endocrinol.*, 18, 2061-2073.
- 280 Poels,J., Van Loy,T., Franssens,V., Dethieux,M., Nachman,R.J., Oonk,H.B., Akerman,K.E., Vassart,G., Parmentier,M., De Loof,A., Torfs,H., & Broeck,J.V. (2004). Substitution of conserved glycine residue by alanine in natural and synthetic neuropeptide ligands causes partial agonism at the stomoxytachykinin receptor
J Neurochem., 90, 472-478.
- 281 Vassart,G. (2004). Activating mutations of the TSH receptor
Thyroid, 14, 86-87.

- 282 Vassart,G., Pardo,L., & Costagliola,S. (2004). A molecular dissection of the glycoprotein hormone receptors
Trends Biochem. Sci., 29, 119-126.
- 283 Vassart,G. & Costagliola,S. (2004). A physiological role for the posttranslational cleavage of the thyrotropin receptor?
Endocrinology, 145, 1-3.
- 284 Vilain,C. & Vassart,G. (2004). Small amplified RNA-SAGE
Methods Mol. Biol., 258, 135-152.
- 285 Wittamer,V., Gregoire,F., Robberecht,P., Vassart,G., Communi,D., & Parmentier,M. (2004). The C-terminal nonapeptide of mature chemerin activates the chemerin receptor with low nanomolar potency
J Biol Chem., 279, 9956-9962.
- 286 Becker,J.A., Mirjole,J.F., Bernard,J., Burgeon,E., Simons,M.J., Vassart,G., Parmentier,M., & Libert,F. (2005). Activation of GPR54 promotes cell cycle arrest and apoptosis of human tumor cells through a specific transcriptional program not shared by other Gq-coupled receptors
Biochem. Biophys. Res. Commun., 326, 677-686.
- 287 El Asmar,L., Springael,J.Y., Ballet,S., Andrieu,E.U., Vassart,G., & Parmentier,M. (2005). Evidence for Negative Binding Cooperativity within CCR5-CCR2b Heterodimers
Mol. Pharmacol., 67, 460-469.
- 288 Grasberger,H., Ringkananont,U., Lefrancois,P., Abramowicz,M., Vassart,G., & Refetoff,S. (2005). Thyroid Transcription Factor 1 Rescues PAX8/p300 Synergism Impaired by a Natural PAX8 Paired Domain Mutation with Dominant Negative Activity
Mol. Endocrinol. 2005 Jul;19(7):1779-91. Epub 2005 Feb 17.
- 289 Migeotte,I., Riboldi,E., Franssen,J.D., Gregoire,F., Loison,C., Wittamer,V., Dethieux,M., Robberecht,P., Costagliola,S., Vassart,G., Sozzani,S., Parmentier,M., & Communi,D. (2005). Identification and characterization of an endogenous chemotactic ligand specific for FPRL2
J Exp Med., 201, 83-93.
- 290 Grasberger H, Vaxillaire M, Pannain S, Beck JC, Mimouni-Bloch A, Vatin V, Vassart G, Froguel P, Refetoff S. Identification of a locus for nongoitrous congenital hypothyroidism on chromosome 15q25.3-26.1. *Hum Genet.* 2005 Dec;118(3-4):348-55. Epub 2005 Sep 28.
- 291 Laurent P, Becker JA, Valverde O, Ledent C, de Kerchove d'Exaerde A, Schiffmann SN, Maldonado R, Vassart G, Parmentier M. The prolactin-releasing peptide antagonizes the opioid system through its receptor GPR10. *Nat Neurosci.* 2005 Dec;8(12):1735-41. Epub 2005 Nov 20.
- 292 De Leener A, Montanelli L, Van Durme J, Chae H, Smits G, Vassart G, Costagliola S. Presence and absence of FSH receptor mutations provide some insights to spontaneous ovarian hyperstimulation syndrome physiopathology. *J Clin Endocrinol Metab.* 2005 Nov 8; [Epub ahead of print]
- 293 Van Schoore G, Mendive F, Pochet R, Vassart G. Expression pattern of the orphan receptor LGR4/GPR48 gene in the mouse. *Histochem Cell Biol.* 2005 Jul;124(1):35-50. Epub 2005 Jul 19.
- 294 Grasberger H, Mimouni-Bloch A, Vantyghem MC, van Vliet G, Abramowicz M, Metzger DL, Abdullatif H, Rytlewski C, Macchia PE, Scherberg NH, van Sande J, Mimouni M, Weiss RE, Vassart G, Refetoff S. Autosomal dominant resistance to thyrotropin as a distinct entity in five multigenerational kindreds: clinical characterization and exclusion of candidate loci. *J Clin Endocrinol Metab.* 2005 Jul;90(7):4025-34. Epub 2005 May 3.
- 295 Wittamer V, Bondu B, Guillabert A, Vassart G, Parmentier M, Communi D. Neutrophil-mediated maturation of chemerin: a link between innate and adaptive immunity. *J Immunol.* 2005 Jul 1;175(1):487-93.

- 296 Ledent C, Demeestere I, Blum D, Petermans J, Hamalainen T, Smits G, Vassart G. Premature ovarian aging in mice deficient for Gpr3. *Proc Natl Acad Sci U S A*. 2005 Jun 21;102(25):8922-6. Epub 2005 Jun 13.
- 297 Urizar E, Montanelli L, Loy T, Bonomi M, Swillens S, Gales C, Bouvier M, Smits G, Vassart G, Costagliola S. Glycoprotein hormone receptors: link between receptor homodimerization and negative cooperativity. *EMBO J*. 2005 Jun 1;24(11):1954-64. Epub 2005 May 12.
- 298 Lagane B, Ballet S, Planchenault T, Balabanian K, Le Poul E, Blanpain C, Percherancier Y, Staropoli I, Vassart G, Oppermann M, Parmentier M, Bachelerie F. Mutation of the DRY motif reveals different structural requirements for the CC chemokine receptor 5-mediated signaling and receptor endocytosis. *Mol Pharmacol*. 2005 Jun;67(6):1966-76. Epub 2005 Mar 10.
- 299 Urizar E, Claeysen S, Deupi X, Govaerts C, Costagliola S, Vassart G, Pardo L. An activation switch in the rhodopsin family of G protein-coupled receptors: the thyrotropin receptor. *J Biol Chem*. 2005 Apr 29;280(17):17135-41. Epub 2005 Feb 18.
- 300 Mendive FM, Van Loy T, Claeysen S, Poels J, Williamson M, Hauser F, Grimmelikhuijzen CJ, Vassart G, Vanden Broeck J. Drosophila molting neurohormone bursicon is a heterodimer and the natural agonist of the orphan receptor DLGR2. *FEBS Lett*. 2005 Apr 11;579(10):2171-6.
- 301 Mendive F, Laurent P, Van Schoore G, Skarnes W, Pochet R, Vassart G. Defective postnatal development of the male reproductive tract in LGR4 knockout mice. *Dev Biol*. 2006 Jan 6; [Epub ahead of print]
- 302 Springael JY, Le Minh PN, Urizar E, Costagliola S, Vassart G, Parmentier M. Allosteric modulation of binding properties between units of chemokine receptor homo- and hetero-oligomers. *Mol Pharmacol*. 2006 May;69(5):1652-61. Epub 2006 Feb 7.
- 303 Van Durme J, Horn F, Costagliola S, Vriend G, Vassart G. GRIS: Glycoprotein-hormone Receptor Information System. *Mol Endocrinol*. 2006 Mar 16; [Epub ahead of print]
- 304 Vassart G, Dumont JE. Thyroid dysgenesis: multigenic or epigenetic ... or both? *Endocrinology*. 2005 Dec;146(12):5035-7. Review.
- 305 Mievis S, Levivier M, Vassart G, Brotchi J, Ledent C, Blum D. Citicoline is not protective in experimental models of Huntington's disease. *Neurobiol Aging*. 2006 Oct 23 PMID: 17064815
- 306 Delbaere A, Smits G, Vassart G, Costagliola S. Genetic predictors of ovarian hyperstimulation syndrome in women undergoing in vitro fertilization. *Nat Clin Pract Endocrinol Metab*. 2006 Nov;2(11):590-1. PMID: 17082800
- 307 Bonomi M, Busnelli M, Persani L, Vassart G, Costagliola S. Structural differences in the hinge region of the glycoprotein hormone receptors: evidence from the sulfated tyrosine residues. *Mol Endocrinol*. 2006 Dec;20(12):3351-63. Epub 2006 Aug 10. PMID: 16901970
- 308 Mievis S, Levivier M, Communi D, Vassart G, Brotchi J, Ledent C, Blum D. Lack of Minocycline Efficiency in Genetic Models of Huntington's Disease. *Neuromolecular Med*. 2007;9(1):47-54. PMID: 17114824
- 309 De Leener A, Caltabiano G, Erkan S, Idil M, Vassart G, Pardo L, Costagliola S. Identification of the first germline mutation in the extracellular domain of the follitropin receptor responsible for spontaneous ovarian hyperstimulation syndrome. *Hum Mutat*. 2007 Aug 22; [Epub ahead of print] PMID: 17721928 [PubMed - as supplied by publisher]
- 310 Van Loy T, Vandersmissen HP, Van Hiel MB, Poels J, Verlinden H, Badisco L, Vassart G, Vanden Broeck J. Comparative genomics of leucine-rich repeats containing G protein-coupled receptors and their ligands. *Gen Comp Endocrinol*. 2007 Jul 4; [Epub ahead of print] PMID: 17706217 [PubMed - as supplied by publisher]

- 311 Springael JY, Urizar E, Costagliola S, Vassart G, Parmentier M. Allosteric properties of G protein-coupled receptor oligomers. *Pharmacol Ther.* 2007 Sep;115(3):410-8. Epub 2007 Jun 27. PMID: 17655934 [PubMed - in process]
- 312 Dessars B, De Raeve LE, El Housni H, Debouck CJ, Sidon PJ, Morandini R, Roseeuw D, Ghanem GE, Vassart G, Heimann P. Chromosomal translocations as a mechanism of BRAF activation in two cases of large congenital melanocytic nevi. *J Invest Dermatol.* 2007 Jun;127(6):1468-70. Epub 2007 Feb 15. PMID: 17301836 [PubMed - indexed for MEDLINE]
- 313 Decaux G, Vandergheynst F, Bouko Y, Parma J, Vassart G, Vilain C. Nephrogenic syndrome of inappropriate antidiuresis in adults: high phenotypic variability in men and women from a large pedigree. *J Am Soc Nephrol.* 2007 Feb;18(2):606-12. Epub 2007 Jan 17. PMID: 17229917 [PubMed - indexed for MEDLINE]
- 314 Bassett JH, Williams AJ, Murphy E, Boyde A, Howell PG, Swinhoe R, Archanco M, Flamant F, Samarat J, Costagliola S, Vassart G, Weiss RE, Refetoff S, Williams GR. A lack of thyroid hormones rather than excess thyrotropin causes abnormal skeletal development in hypothyroidism. *Mol Endocrinol.* 2008 Feb;22(2):501-12. Epub 2007 Oct 11.
- 315 Van Loy T, Van Hiel MB, Vandersmissen HP, Poels J, Mendive F, Vassart G, Vanden Broeck J. Evolutionary conservation of bursicon in the animal kingdom. *Gen Comp Endocrinol.* 2007 Aug-Sep;153(1-3):59-63. Epub 2006 Dec 27. PMID: 17275819 [PubMed - indexed for MEDLINE]
- 316 Deladoëy J, Pfarr N, Vuissoz JM, Parma J, Vassart G, Biesterfeld S, Pohlenz J, Van Vliet G. Pseudodominant Inheritance of Goitrous Congenital Hypothyroidism Caused by TPO Mutations: Molecular and in Silico Studies. *J Clin Endocrinol Metab.* 2008 Feb;93(2):627-33. Epub 2007 Nov 20. PMID: 18029453 [PubMed - in process]
- 317 Decaux G, Soupart A, Vassart G. Non-peptide arginine-vasopressin antagonists: the vaptans. *Lancet.* 2008 May 10;371(9624):1624-32..[PubMed - indexed for MEDLINE]
- 318 Caltabiano G, Campillo M, De Leener A, Smits G, Vassart G, Costagliola S, Pardo L. The specificity of binding of glycoprotein hormones to their receptors. *Cell Mol Life Sci.* 2008 Apr 26. [Epub ahead of print] PMID: 18438608 [PubMed - as supplied by publisher]
- 319 Akcurin S, Turkkahraman D, Tysoe C, Ellard S, De Leener A, Vassart G, Costagliola S. A family with a novel TSH receptor activating germline mutation (p.Ala485Val). *Eur J Pediatr.* 2008 Jan 4. [Epub ahead of print] PMID: 18175146 [PubMed - as supplied by publisher]
- 320 Deladoëy J, Vassart G, Van Vliet G. Possible non-Mendelian mechanisms of thyroid dysgenesis. *Endocr Dev.* 2007;10:29-42. Review. PMID: 17684388 [PubMed - indexed for MEDLINE]
- 321 Dessars B, De Raeve LE, Morandini R, Lefort A, El Housni H, Ghanem GE, Van den Eynde BJ, Ma W, Roseeuw D, Vassart G, Libert F, Heimann P. Genotypic and gene expression studies in congenital melanocytic nevi: insight into initial steps of melanotumorigenesis. *J Invest Dermatol.* 2009 Jan;129(1):139-47. Epub 2008 Jul 17. PMID: 18633438 [PubMed - indexed for MEDLINE]
- 322 Maquet E, Costagliola S, Parma J, Christophe-Hobertus C, Oigny LL, Fournet, JC, Robitaille Y, Vuissoz JM, Payot A, Laberge S, Vassart G, Van Vliet G, Deladoëy J. Lethal respiratory failure and mild primary hypothyroidism in a term girl with a de novo heterozygous mutation in the TITF1/NKX2.1 gene. *J Clin Endocrinol Metab.* 2009 Jan;94(1):197-203.
- 323 Valverde O, Célérrier E, Baranyi M, Vanderhaeghen P, Maldonado R, Sperlagh B, Vassart G, Ledent C. GPR3 receptor, a novel actor in the emotional-like responses. *PLoS ONE.* 2009;4(3):e4704. Epub 2009 Mar 4
- 324 Garcia MI, Ghiani M, Lefort A, Libert F, Strollo S, Vassart G. LGR5 deficiency deregulates Wnt signaling and leads to precocious Paneth cell differentiation in the fetal intestine. *Dev Biol.* 2009 Apr 24. [Epub ahead of print] PubMed PMID:19394326.