

Curriculum Vitae

Last Name : Libert

First Name : Frédéric

Address : I.R.I.B.H.N., Institute of Interdisciplinary Research
Campus Erasme, Bat.C
808 route de Lennik
B-1070 Bruxelles

Nationality : Belgium

Date of birth : 22 december 1962

Qualifications: B.Sc – Chemistry (1985)

PhD – Biochemistry (1991)
Promoter : Professor J.E. Dumont and G. Vassart
I.R.I.B.H.N., Université Libre de Bruxelles

Since 1991- Research associate at the Fonds National
pour la Recherche Scientifique

Professional training: -EMBO course - Heidelberg - 08/1988
“Construction and uses of expression libraries in
molecular cell biology”
-EMBO course- Heidelberg - 10/1989
“Analysis and expression of neurotransmitter receptor”
-CSH - Cold Spring Harbor (New York) -10/1991
“Analysis and genetic manipulation of yeast artificial
chromosomes (YACs)”
-EMBO course - Heidelberg - 10/2000
"DNA Microarrays : application and data analysis"

Post-PhD research : University of Utah, department of Human Genetics
(Professor Georges M.) - Salt Lake City (USA)
22/10/1991- 01/06/1993

Scientific Distinctions : Dalton Prize of Biotechnology 1990
Galien Prize of Pharmacology 1992

Libert Frédéric

Publications:

Methylation and expression of the human thyroglobuline gene,
F. Libert, G. Vassart, D. Christophe,
Bioph. Bioch. Res. com., 134 (1986), 1109-1113.

Preparation of single-stranded deoxyribonucleic acids probes using an
immobilized template,
C. Hansen, F. Libert, G. Vassart, D. Christophe,
Analytical Biochemistry, 162 (1987), 130-136.

Thyropoxidase, an auto-antigen with a mosaic structure made of nuclear and
mitochondrial gene modules,
F. Libert, J. Ruel, M. Ludgate, S. Swillens, N. Alexander, G. Vassart, C. Dinsart,
EMBO J., 6 (1987), 4193-4196.

Complete nucleotide sequence of the human thyropoxidase-microsomal antigen
cDNA,
F. Libert, J. Ruel, M. Ludgate, S. Swillens, N. Alexander, G. Vassart, C. Dinsart,
Nucl. Acids Res., 15 (1987), 6735.

Transcriptional regulation of the thyropoxidase,
C.M. Gerard, A. Lefort, F. Libert, D. Christophe, J.E. Dumont, G. Vassart,
Mol. Cell. Endocrinology, 60 (1988), 239-242.

Selective amplification of four new members of the G Protein-Coupled Receptor
Family,
F. Libert, M. Parmentier, A. Lefort, C. Dinsart, J. Van Sande, C. Maenhaut, M.J.
Simons, J.E. Dumont, G. Vassart,
Science, 244 (1989), 569-572.

Control of thyropoxidase and thyroglobulin transcription by cAMP: Evidence
for distinct regulatory mechanisms,
C.M. Gerard, A. Lefort, D. Christophe, F. Libert, J. Van Sande, J.E. Dumont, G.
Vassart,
Mol. Endocrinology, (1989), 2110-2118.

Cloning and sequencing of a calcium-binding protein regulated by cyclic AMP in
the thyroid,
A. Lefort, R. Lecocq, F. Libert, F. Lamy, S. Swillens, G. Vassart, J.E. Dumont,
EMBO J., 8 (1989), 111-116.

Structure-function relationships of the complement components, (Letters),
F. Libert, G. Vassart,
Immunology Today, 10 (1989), 407.

Molecular cloning of the thyrotropin receptor,
M. Parmentier, F. Libert (M.P. and F.L. contributed equally), C. Maenhaut, A.
Lefort, C. Gérard, J. Perret, J. Van Sande, J.E. Dumont, G. Vassart,
Science, 246 (1989), 1620-1622.

Nucleotide sequence of the dog thyrotropin receptor cDNA,
M. Parmentier, F. Libert, C. Maenhaut, A. Lefort, C. Gérard, J. Perret, J. Van
Sande, J.E. Dumont, G. Vassart,
Nucleic Acids Res., 17 (1989), 10493.

Cloning, sequencing and expression of the human thyrotropin (TSH) receptor:
evidence for binding of autoantibodies,
F. Libert, A. Lefort, C. Gerard, M. Parmentier, J. Perret, M. Ludgate, J.E.
Dumont, G. Vassart,
Biochem. Bioph. Res. com., 165 (1989), 1250-1255.

EcoRI RFLP in the human thyroid peroxidase (TPO) gene on chromosome 2,
H. Bikker, P.A. Bolhuis, G. Vassart, F. Libert, G. Massaro, G. de Vijlder,
Hum. Genet., 82 (1989), 95.

RFLPs detected at 2 pter-pl2 with a thyroid peroxidase cDNA probe, TPO3
(McKusick no. 27450),
G. Massaro, F. Libert, G. Vassart, Ch. Dinsart,
Nucl. Acids Res., 17 (1989), 2155.

Antibodies to human thyroid peroxidase in autoimmune thyroid disease: studies
with a cloned recombinant complementary deoxyribonucleic acid epitope,
M. Ludgate, S. Mariotti, F. Libert, C. Dinsart, P. Piccolo, F. Santini, J. Ruf, A.
Pinchera, G. Vassart,
J. Clin. Endocrinol. Metab., 68 (1989), 1091-1096.

A cloned G protein-coupled protein with a distribution restricted to striatal
medium-sized neurons. Possible relationship with D1 dopamine receptor,
S. Schiffmann, F. Libert, G. Vassart, J.E. Dumont, J.J. Vanderhaegen,
Brain Research, 519 (1990), 333-337.

Molecular cloning of a dog thyrotropin (TSH) receptor variant,
F. Libert, M. Parmentier, C. Maenhaut, A. Lefort, C. Gérard, J. Perret, J. Van
Sande, J.E. Dumont, G. Vassart,
Molec. Cell. Endocr., 68 (1990), 15-17.

Complete nucleotide sequence of a putative G protein coupled receptor: RDCx,
F. Libert, M. Parmentier, A. Lefort, J.E. Dumont, G. Vassart,
Nucl. Acids. Res., 18 (1990), 1914-1917.

Stable expression of the human TSH receptor in CHO cells and characterization of differentially expressing clones,

J. Perret, M. Ludgate, F. Libert, C. Gerard, J.E. Dumont, G. Vassart, M. Parmentier,

Biochem. Biophys. Res. com., 171 (1990), 1044-1050.

Use of the recombinant human thyrotropin receptor (TSH-R) expressed in mammalian cell lines to assay TSH-R autoantibodies,

M. Ludgate, J. Perret, M. Parmentier, C. Gérard, F. Libert, J.E. Dumont, G. Vassart,

Mol. Cell. Endocr., 73(1990), R 13 -R 18.

An efficient screening morphological test for the identification and characterization of cyclic AMP- coupled hormone receptor,

C. Maenhaut, F. Libert,

Experimental cell research, 187(1990),104-110.

Localization of human thyrotropin receptor gene to chromosome region 14q31 by in situ hybridization,

F. Libert, E. Passage, A. Lefort, G. Vassart, M.G. Mattei,

Cytogenet. Cell Genet., 54(1990), 82-83.

Localization of human calcyphosine gene (CAPS)to the pl 3.3 region of chromosome 19 by in situ hybridization,

A. Lefort, E. Passage, F. Libert, G. Vassart, M.G. Mattei,

Cytogenet. Cell Genet., 54(1990), 154-155.

RDC8 codes for an adenosine A2 receptor with physiological constitutive activity,

C. Maenhaut, J. Van Sande, F. Libert, M. Abramowicz, M. Parmentier, J.J.

Vanderhaegen, J.E. Dumont, G. Vassart, S. Shiffmann,

Bioch. Biophys. Res. com., 173(1990), 1169-1178.

Chromosomal mapping of four new members of the G protein-coupled receptor family including an A1 and A2 adenosine receptors,

F. Libert, E. Passage, M. Parmentier, M.J. Simons, G. Vassart, M.G. Mattei,

Genomics, 11(1991),225-227.

Thyroperoxidase, but not the thyrotropin receptor, contains sequential epitopes recognized by autoantibodies in recombinant peptides expressed in the pUEX vector,

F. Libert, M. Ludgate, C. Dinsart, G. Vassart,

J. Clin. Endocrinol. Metab., 73(1991), 857-860.

The orphan receptor cDNA RDC7 encodes an A1 adenosine receptor,

F. Libert, S.N. Shiffmann, A. Lefort, M. Parmentier, C. Gerard, J.E. Dumont, J.J.

Vanderhaeghen, G. Vassart,

EMBO J., 10(1991), 1677-1682.

The orphan receptor cDNA RDC4 encodes a 5-HT_{1d} serotonin receptor,
C. Maenhaut, J. Van Sande, C. Massart, C. Dinsart, F. Libert, E. Monferini, H.
Ladinsky, G. Vassart, J.E. Dumont,
Biochem. Bioph. Res. com., 180 (1991), 1258-1264.

Distribution of adenosine A₂ receptor mRNA in human brain, S. Shiffmann, F.
Libert, G. Vassart, J.J. Vanderhaeghen,
Neuroscience Letters, 130 (1991), 177-181.

Expression of members of the putative olfactory receptor gene family in
mammalian germ cells,
M. Parmentier, F. Libert, S. Schurmans, D. Eggerickx, C. Ledent, C. Mollercau,
C. Gerard, J. Perret, A. Grootegoed, G. Vassart,
Nature, 355 (1992), 453-455.

RDC1 may not be VIP receptor,
S. Nagata, T. Ishihara, P. Robberecht, F. Libert, M. Parmentier, J. Christophe, G.
Vassart,
TIPS (Letters), 13 (1992), 102-103

Cloning and functional characterization of a human A₁ adenosine receptor,
F. Libert, J. Van Sande, A. Lefort, A. Czernilofsky, J.E. Dumont, G. Vassart, H.A.
Ensinger, K.D. Mendia,
Biochem. Bioph. Res. com., 187 (1992), 919-926.

Construction of a bovine genomic library of large yeast artificial chromosome
clones, F. Libert, A. Lefort, R. Okimoto, M. Georges,
Genomics, 18 (1993), 270-276.

Molecular cloning of an orphan G-protein-coupled receptor that constitutively
activates adenylate cyclase,
D. Eggerickx, J.-F. Deneff, O. Labbe, Y. Hayashi, S. Refetoff, G. Vassart, M.
Parmentier, F. Libert,
Biochem. J., 309 (1995), 837-843.

Resistance to HIV-1 infection of Caucasian individuals bearing mutant alleles of
CCR5 chemokine receptor gene,
M. Samson, F. Libert, (M.S. and F.L. contributed equally), B.J. Doranz, J. Rucker,
C. Liesnard, C.-M. Farber, S. Saragosti, C. Lapoum roulie, J. Cognaux, C.
Forceille, G. Muyltermans, C. Verhofstede, G. Burtonboy, M. Georges, T. Imai,
S. Rana, Y. Yi, R.J. Smyth, R.G. Collman, R.W. Doms, G. Vassart, M.
Parmentier,
Nature (1996) 382, 722-725.

Regions in b-chemokine receptors CCR5 and CCR2b that determine HIV-1 cofactor specificity,

J. Rucker, M. Samson, B.J. Doranz, F. Libert, (J.R., M.S., B.D. and F.L. contributed equally), J.F. Berson, C.C. Broder, G. Vassart, R.W. Doms, M. Parmentier,

Cell, 87 (1996), 1-10.

The second extracellular loop of CCR5 is the major determinant of ligand specificity,

M. Samson, G. LaRosa, F. Libert, P. Paindavoine, M. Detheux, G. Vassart, M. Parmentier,

J. Biol. Chem., 272 (1997), 24934-24491.

Characterization of a phosphoprotein whose mRNA is regulated by the mitogenic pathways in dog thyroid cells,

F. Wilkin, N. Suarez-Huerta, B. Robaye, J. Peetermans, F. Libert, J.E. Dumont, C. Maenhaut,

Eur J Biochem 248 (1997), 660-668.

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,

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,

J Virol 71 (1997), 3219-3227.

The deltaccr5 mutation conferring protection against HIV-1 in Caucasian populations has a single and recent origin in Northeastern Europe,

F. Libert, P. Cochaux, G. Beckman, M. Samson, M. Aksenova, A. Cao, A. Czeizel, M. Claustres, C. de la Rua, M. Ferrari, C. Ferrec, G. Glover, B. Grinde, S. Guran, V. Kucinskis, J. Lavinha, B. Mercier, G. Ogur, L. Peltonen, C. Rosatelli, M. Schwartz, V. Spitsyn, L. Timar, L. Beckman G. Vassart,

Hum Mol Genet 7 (1998), 399-406.

Multiple charged and aromatic residues in CCR5 amino-terminal domain are involved in high affinity binding of both chemokines and HIV-1 Env protein.

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

J Biol Chem 274 (1999) 34719-27.

Review

Control of thyroglobulin gene expression,
D. Christophe, C. Gerard, C. Hansen, C. Christophe-Hubertus, G. Juvenal, F. Libert, P. Roger, J.E. Dumont, G. Vassart,
Hormones and Cell Regulation, 153 (1987), 205-213.

Homology cloning of cDNAs amplified by the polymerase chain reaction. Identification of four new members of the G-protein coupled receptor family,
F. Libert, M. Parmentier, A. Lefort, C. Dinsart, J. Van Sande, C. Maenhaut, M.J. Simons, J.E. Dumont, G. Vassart,
Hormones and Cell Regulation, 198 (1989), f33-36.

Transducing systems in the control of human thyroid cell function, proliferation and differentiation, J.E. Dumont, A. Lefort, F. Libert, M. Parmentier, E. Raspe, S. Reuse, C. Maenhaut, P. Roger, B. Corvilain, E. Laurent, J. Mockel, F. Lamy, J. Van Sande, G. Vassart,
in *Control of the thyroid gland* R. Ekholm, L. Kohn, S.H. Wollman, Plenum press., (1990), 357- 372.

The control of human thyroid cell function proliferation and differentiation,
S. Reuse, C. Maenhaut, A. Lefort, F. Libert, M. Parmentier, E. Raspe, P. Roger, B. Corvilain, E. Laurent, J. Mockel, F. Lamy, J. Van Sande, G. Vassart, J.E. Dumont,
NATO ASI Series, *Activation and desensitization of transducing pathways* edited by T.M. Konijn, H.D. Housiay, P.J.M. Van Haastert, H44 (1990), 285-306.

Function, proliferation and differentiation of the dog and human thyrocyte,
C. Maenhaut, A. Lefort, F. Libert, M. Parmentier, E. Raspe, P. Roger, B. Corvilain, E. Laurent, S. Reuse, J. Mockel, F. Lamy, J. Van Sande, J.E. Dumont, *Hormone and Metabolic Research*, 23 (1990), 51-62.

Le récepteur de la thyrotropine: un membre pas comme les autres de la famille des récepteurs couplés aux protéines G,
G. Vassart, M. Parmentier, F. Libert, J.E. Dumont,
Médecine/Sciences, 6 (1990), 985-990.

Current developments in G protein-coupled receptors, F. Libert, G. Vassart, M. Parmentier,
Current Opinion Cell Biol., 3 (1991), 218-223.

Molecular genetics of the thyrotropin receptor,
G. Vassart, M. Parmentier, F. Libert, J.E. Dumont, T.E.M., 2(1991),
151-156.

Cloning and characterization of G Protein-coupled receptors,
M. Parmentier, F. Libert, J. Perret, D. Eggerickx, C. Ledent, S.
Schurmans, E. Raspe, J.E. Dumont, G. Vassart,
Advances in Second Messenger and Phosphoprotein Research, 28
(1993), 11-15.

Olfactory Receptors,
M. Parmentier, S. Schurmans, F. Libert, P. Vanderhaeghen, G. Vassart,
Handbook of receptors and channels, G protein coupled receptors edited by S.J.
Peroutka, 19 (1994), 237-250.

La famille des récepteurs couplés aux protéines G et ses orphelins, M. Parmentier,
F. Libert, G. Vassart,
Médecine/Sciences, 11 (1995), 222-231.

The genetics of HIV-1 coreceptors and coreceptor ligands.
F. Libert, G. Vassart and M. Parmentier,
AIDS Rev. 1 (1999), 221-230.

CCR5 and HIV infection,
C. Blanpain and F. Libert, G. Vassart, M. Parmentier
Receptors and Channels, 8(2002), 19-31