

Amplicon Express and Genome Express Employee Patents and Publications

Patents

Patent #3

Method and apparatus for analyzing data files derived from emission spectra from fluorophore tagged nucleotides.

N° US6195449 - 02/27/2001 - Amplicon express and Génome express

Authors : R. Bogden and M. de Leeuw

Patent #2

Element d'ADN promoteur de l'activité de transcription, actif dans les cellules humaines et méthode générale pour en ajuster l'activité.

N° 00 10007 du 28 juillet 2000 - Déposants : CEA / CNRS / UJF

Inventeurs : P. Lescuyer et J.-P. Issartel

Patent #1

Procédé de fabrication de morpholino-nucléotides, et utilisation de ceux-ci pour l'analyse et le marquage de séquences d'acides nucléiques.

N° 99.12001 du 27 septembre 1999 - Déposant : CEA

Inventeurs : F. Marciacq, S. Sauvaigo, J.-F. Mouret, J.-P. Issartel et D. Molko

Publications of GENOME express Personnel

Microbiology Activation of Escherichia coli prohaemolysin to the mature toxin by acyl carrier protein-dependent fatty acylation.

J.-P. Issartel, V. Koronakis and C. Hughes

Nature (1991) 351, 759-761.

In vitro activation of Escherichia coli prohaemolysin to the mature membrane-targeted toxin requires HlyC and a low molecular-weight cytosolic polypeptide.

K.R. Hardie, J.-P. Issartel, E. Koronakis, C. Hughes and V. Koronakis

Mol. Microbiol. (1991) 5, 1669-1679.

Identification of five Rhodobacter capsulatus genes encoding the equivalent of ND subunits of the mitochondrial NADH-ubiquinone oxidoreductase.

A. Dupuis, A. Peinnequin, M. Chevallet, J. Lunardi, E. Darrouzet, B. Pierrard, V. Procaccio and J.-P. Issartel

Gene (1995) 167, 99-104.

Immuno-purification of a dimeric subcomplex of the respiratory NADH-CoQ reductase of Rhodobacter capsulatus equivalent to the FP fraction of the mitochondrial Complex I.

H. Duborjal, A. Dupuis, A. Chapel, S. Kieffer, J. Lunardi and J.-P. Issartel

FEBS Lett. (1997) 405, 345-350.

The Nuol subunit of the Rhodobacter capsulatus respiratory Complex I (equivalent to the bovine TYKY subunit) is required for proper assembly of the membraneous and peripheral domains of the enzyme.

M. Chevallet, A. Dupuis, J. Lunardi, R. van Belzen, S.P.J. Albracht and J.-P. Issartel

Eur. J. Biochem. (1997) 250, 451-458.

The Complex I from Rhodobacter capsulatus

A. Dupuis, M. Chevallet, E. Darrouzet, H. Duborjal, J. Lunardi and J.P. Issartel

Biochim. Biophys. Acta (1998) 1364, 147-165.

Genome annotation - Bioinformatics

Medigue C, Verdat T, Bisson G, Viari A and Danchin A.

Cooperative computer system for genome sequence analysis.

Proc. Int. Conf. Intell. Syst. Mol. Biol. (1995) 3, 249-258.

A 94 kb genomic sequence 3' to the murine Xist gene reveals an AT rich region containing a new testis specific Tsx.

Simmler MC, Cunningham DB, Clerc P, Verdat T, Caudron B, Cruaud C, Pawlak A, Szpirer C, Weissenbach J, Claverie JM and Avner P

Hum. Mol. Genet. (1996) 5, 1713-1726.

Modelling metabolism knowledge using objects and associations.

Rivière-Rolland H., Taloc L., Ziebelin D., Rechenmann F. and Viari A.

ERCIM News (2000) 43, 21.

Cooperative environments for genomes annotation : from Imageno to Geno-Annot.

Medigue C, Vandenbrouck Y, Rechenmann F and Viari A

ERCIM News (2000) 43, 22.

Human genetics and pathology

Evidence for a lactose-mediated association between two nuclear carbohydrate-binding proteins.

Seve AP, Felin M, Doyennette-Moyne MA, Sahraoui T, Aubery M and Hubert J.
Glycobiology (1993) 3, 23-30.

Identification of two nuclear N-acetylglucosamine-binding proteins.

Felin M, Doyennette-Moyne MA, Hadj-Sahraoui Y, Aubery M, Hubert J and Seve AP.
J. Cell Biochem. (1994) 56, 527-535.

Evidence that lactose binding to CBP35 disrupts its interaction with CBP70 in isolated HL60 cell nuclei.

Seve AP, Hadj-Sahraoui Y, Felin M, Doyennette-Moyne MA, Aubery M and Hubert J.
Exp. Cell Res. (1994) 213, 191-197.

The human HIP gene, overexpressed in primary liver cancer encodes for a C-type carbohydrate binding protein with lactose binding activity.

Christa L, Felin M, Morali O, Simon MT, Lasserre C, Brechot C and Seve AP.
FEBS Lett. (1994) 337, 114-118.

A mutation located at the 5' splice junction sequence of intron 3 in the p67phox gene causes the lack of p67phox mRNA in a patient with chronic granulomatous disease.

L. Cohen Tanugi-Cholley, J.-P. Issartel, J. Lunardi, F. Freycon, F. Morel and P.V. Vignais
Blood (1995) 85, 242-249.

Nuclear and cytoplasmic expressions of the carbohydrate-binding protein CBP70 in tumoral or healthy cells of the macrophagic lineage.

Hadj Sahraoui Y, Seve AP, Doyennette-Moyne MA, Saffar L, Felin M, Aubery M, Gattegno L and Hubert J.
J. Cell Biochem. (1996) 62, 529-542.

CBP70, a glycosylated nuclear lectin.

Rousseau C, Felin M, Doyennette-Moyne MA and Seve AP.
J. Cell Biochem. (1997) 66, 370-385.

Characterization of a putative 82 kDa nuclear ligand for the N-acetylglucosamine-binding protein CBP70.

Felin M, Doyennette-Moyne MA, Rousseau C, Schroder HC and Seve AP.
Glycobiology. (1997) 7, 23-29.

Identification of three novel members of the calcium-dependent chloride channel (CaCC) family predominantly expressed in the digestive tract and trachea.

Agnel M, Vermat T and Culouscou JM.
FEBS Lett. (1999) 455, 295-301.

Stable expression of functional CBP70 lectin during heat shock.

Rousseau C, Felin M and Seve AP.
J. Cell Biochem. (2000) 77, 615-623.

Human Cyclin C Protein is stabilized by its associated kinase cdk8, independently of its catalytic activity

C Barette, I Jariel-Encontre, M Piechaczyk and J Piette
Oncogene (in the press)

Mitochondriac

DNA sequence and chromosomal localization of the NDUF58 human gene coding for the 23 kDa subunit of the mitochondrial Complex I.

V. Procaccio, D. Depetris, P. Soularue, M.-G. Mattei, J. Lunardi and J.-P. Issartel
Biochim. Biophys. Acta (1997) 1351, 37-41.

Mapping to 1q23 of the human gene (NDUF52) encoding the 49 kDa subunit of the mitochondrial respiratory Complex I and immunodetection of the mature protein in mitochondria.

V. Procaccio, R. de Sury, P. Martinez, D. Depetris, T. Rabilloud, P. Soularue, J. Lunardi and J.-P. Issartel
Mamm. Genome (1998) 9, 482-484.

Genomic structure of the human NDUF58 gene coding for the iron-sulfur TYKY subunit of the mitochondrial NADH:ubiquinone oxidoreductase.

R. de Sury, P. Martinez, V. Procaccio, J. Lunardi and J.-P. Issartel
Gene (1998) 215, 1-10.

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The 49kDa subunit of the NADH-Ubiquinone oxidoreductase (Complex I) is involved in the binding of piericidin and rotenone, two quinone related inhibitors.

E. Darrouzet, J.-P. Issartel, J. Lunardi and A. Dupuis
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Structure, function and pathology of Complex I (NADH Dehydrogenase).

H. Duborjal, R. Beugnot, V. Procaccio, J.-P. Issartel and J. Lunardi
dans "Mitochondrial diseases. Models and Methods". Ed. P. Lestienne. Springer Verlag, Paris (1999) p 73-86.

Genomic organization of the human *NDUFS3* gene coding for the 30-kDa subunit of mitochondrial Complex I.

V. Procaccio, P. Lescuyer, I. Bourges, R. Beugnot, H. Duborjal, D. Depetris,
B. Mousson, M.-F. Montfort, H. Smeets, R. De Coe and J.-P. Issartel
Mamm. Genome (2000) 11, 808-810.

Apoptosis

The proto-oncogene *c-fos* increases the sensitivity of keratinocytes to apoptosis.

Mils V, Piette J, Barette C, Veyrune J, Tesniere A, Escot C, Guilhou JJ and Basset-Seguin N.
Oncogene (1997) 14, 1555-1561.

Neurodegenerative diseases

Huntington's disease in French families: CAG repeat expansion and linkage disequilibrium analysis.

Dode C, Durr A, Pecheux C, Mouret JF, Belal S, Bachner L, Agid Y, Kaplan JC, Brice A and Feingold J.
C. R. Acad. Sci. III. (1993) 316, 1374-1380.

Sequence analysis of the CCG polymorphic region adjacent to the CAG triplet repeat of the HD gene in normal and HD chromosomes.

Pecheux C, Mouret JF, Durr A, Agid Y, Feingold J, Brice A, Dode C and Kaplan JC.
J. Med. Genet. (1995) 32, 399-400.

Nuclear-DNA origin of mitochondrial Complex I deficiency in fatal infantile lactic acidosis evidenced by trans-nuclear complementation of cultured fibroblasts.

V. Procaccio, B. Mousson, R. Beugnot, H. Duborjal, F. Feillet, G. Putet, I. Pignot-Paintrand, A. Lombès, R. De Coe, H. Smeets, J. Lunardi and J.-P. Issartel
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Transcriptomics

The modulation of apolipoprotein E gene expression by 3,3'-5-triiodothyronine in HepG2 cells occurs at transcriptional and post-transcriptional levels.

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Transcriptional regulation of apolipoprotein A-I expression in Hep G2 cells by phorbol ester.

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Andreani-Mangeney M, Vandenbrouck Y, Janvier B, Girlich D and Bereziat G.
FEBS Lett. (1996) 397, 155-158.

Chromatin-remodelling factor CHRAC contains the ATPases ISWI and topoisomerase II.

Varga-Weisz PD, Wilm M, Bonte E, Dumas K, Mann M and Becker PB.
Nature (1997) 388, 598-602.

The Genexpress IMAGE knowledge base of the human brain transcriptome: a prototype integrated resource for functional and computational genomics.

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Genome Res. (1999) 9, 195-209.

Oxidative stress

Ionic and radical oxidations of DNA by hydrogen peroxide.

Mouret JF, Polverelli M, Sarrazini F and Cadet J.

Biol. Interact. (1991) 77, 187-201.

Chemical and biochemical postlabeling methods for singling out specific oxidative DNA lesions.

Cadet J, Odin F, Mouret JF, Polverelli M, Audic A, Giacomoni P, Favier A and Richard MJ.

Mutat. Res. (1992) 275, 343-354.

Measurement of oxidative base damage to DNA by using HPLC-32P-postlabelling and GC/MS-selective ion monitoring assays.

Cadet J, Incardona MF, Odin F, Molko D, Mouret JF, Polverelli M, Faure H, Ducros V, Tripiet M and Favier A.

IARC Sci Publ. (1993) 124, 271-276.

Plant physiology

Photorespiration and related enzymes in pea (*Pisum sativum*) grown in high CO₂.

Thibaud M.-C., Cortez N., Rivière H. and Betsche T.

J. Plant Physiol. (1995) 146, 596-603.

Adaptation of pea to elevated atmospheric CO₂: Rubisco, PEP carboxylase, and chloroplast phosphate translocator at different levels of nitrogen and phosphorus nutrition.

Rivière-Rolland H., Contard P. and Betsche T.

Plant, Cell & Environment (1996) 19, 109-117.

Nucleotide and peptide chemistry

Synthesis and enzymatic incorporation of morpholino thymidine-5'-triphosphate in DNA fragments.

F. Marciacq, S. Sauvaigo, J.-P. Issartel, J.-F. Mouret and D. Molko

Tetrahedron Letters (1999) 40, 4673-4676.

[Première application de la réaction de Darkin-West à la synthèse d'isostères cétométhyléniques en stratégie FMOC]

R. Casimir, C. Turreta, L. Ettouati and J. Paris

Tetrahedron Letters (1995)

Scientific database on mitochondria

MitoPick : A complex I database accessible through the [web](#).

1997. Curator : J.-P. Issartel

Expertises

Mission d'expertise aux USA sur les sociétés de bio-technologies développant des bio-puces à ADN

Mission mandatée par le Ministère de l'Industrie

Rapport remis en juillet 1995.

Y. Laurent and J.-P. Issartel

Publications of AMPLICON express Personnel

PCR based polymorphism detection using amplicons.

R. Bogden.

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Identification of a candidate tumour suppressor gene, MMAC1, at chromosome 10q23.3 that is mutated in multiple advanced cancers.

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R. Hu, B. Swedlund, D.H. Teng and S.V. Tavtigian.

Nature Genetics (1997) 15, 356-362.

Low incidence of BRCA2 mutations in breast carcinoma and other cancers.

D.H. Teng, R. Bogden, J. Mitchell, M. Baumgard, R. Bell, S. Berry, T. Davis, P.C. Ha, R. Kehrer, S. Jammulapati, Q. Chen, K. Offit,

M. Skolnick, S.V. Tavtigian, S. Jhanwar, B. Swedlund, A.K.C. Wong and A. Kamb.

Nature Genetics (1996) 13, 241-244.

Generation of an integrated transcription map of the BRCA2 region on chromosome 13q-12-q13.

F.J. Couch, J.M. Rommens, S.L. Neuhausen, C. Belanger, M. Dumont, K. Abel, R. Bell, S. Berry, R. Bogden, L. Cannon-Albright, I

Farid, C. Frye, T. Hattier, T. Janecki, P. Jiang, R. Kehrer, J.F. Leblanc, J. McArthur-Morrison, D. McSweeney, Y. Miki, Y. Peng, C. Samson, M. Schroeder, S.C. Snyder, M. Stringfellow, C. Stroup, B. Swedlund, J. Swensen, D. Teng, S. Thakur, T. Tran, M. Tranchant, J. Weaver-Feldhaus, A.K.C. Wong, H. Shizuya, F. Labrie, M.H. Skolnick, D.E. Goldgar, A. Kamb, B.L. Weber, S.V. Tavtigian and J. Simard.
Genomics (1996) 36, 86-89.

BRCA2 germline mutations in male breast cancer cases and breast cancer families.
F.J. Couch, L.M. Farid, M.L. DeShano, S.V. Tavtigian, K. Calzone, L. Campeau, Y. Peng, B. Bogden, Q. Chen, S. Neuhausen, D. Shattuck-Eidens, A.K. Godwin, M. Daly, D.M. Radford, S. Sedlacek, J. Rommens, J. Simard, J. Garber, S. Merajver and B.L. Web
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The complete BRCA2 gene and mutations in chromosome 13q-linked kindreds.
SV Tavtigian, J Simard, J Rommens, F Couch, D Shattuck-Eidens, S Neuhausen, S Merajver, S Thorlacius, K Offit, D Stoppa-Lyonnet, C Belanger, R Bell, S Berry, R Bogden, Q Chen, T Davis, M Dumont, C Frye, T Hattier, S Jammulapati, T Janecki, P Jiang, R Kehrer, JF Leblanc, JT Mitchell, J McArthur-Morrison, K Nguyen, Y Peng, C Samson, M Schroeder, SC Snyder, L Steele, M Stringfellow, C Stroup, B Swedlund, J Swensen, D Teng, A Thomas, T Tran, T Tran, M Tranchant, J Weaver-Feldhaus, AKC Wong, H Shizuya, J.E. Eyfjord, L Cannon-Albright, F Labrie, MH Skolnick, B Weber, A Kamb and DE Goldgar.
Nature Genetics (1996) 12, 333-337.

A strong candidate for the breast and ovarian cancer susceptibility gene BRCA1.
Y. Miki, J. Swensen, D. Shattuck-Eidens, P.A. Futreal, K. Harshman, S. Tavtigian, Q. Liu, C. Cochran, L.M. Bennett, W. Ding, R. Bell, J. Rosenthal, C. Hussey, T. Tran, M. McClure, C. Frye, T. Hattier, R. Phelps, A. Haugen-Strano, H. Katcher, K. Yakumo, Z. Gholami, D. Shaffer, S. Stone, S. Bayer, C. Wray, R. Bogden, P. Dayananth, J. Ward, P. Tonin, S. Narod, P.K. Bristow, F. Norris, Helvering, P. Morrison, P. Rosteck, M. Lai, J.C. Barrett, C. Lewis, S. Neuhausen, L. Cannon-Albright, D. Goldgar, R. Wiseman, A. Kamb and M.H. Skolnick.
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C.L. Small. (1985), M.A. Thesis, The University of Texas-Austin.

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F.A Tabita and C.L. Small.
Proc. Natl. Acad. Sci. USA (1985) 82, 6100-6103.

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D. Mills., M. Ehrenshaft, J. Williams, C.L. Small and A. Poplawsky.
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Cloning, expression and directed mutagenesis of the genes for ribulose bisphosphate carboxylase/oxygenase.
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R.E Hurlbert., J. Xu and C.L. Small.
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Analysis of Strain-Specific Plasmid Sequences from *Coxiella burnetii*.
M.F. Minnick, C.L. Small, M.E. Frazier and L.P. Mallavia.
Acta Virol. (1991), 35, 497-502.

Analysis of the *cbhE1* plasmid gene from acute disease-causing isolates of *Coxiella burnetii*.
M.F. Minnick, C.L. Small, M.E. Frazier, and L.P. Mallavia.
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Polymerase Chain Reaction Analysis of Cisplatin-Induced Mitochondrial DNA Damage in Human Ovarian Carcinoma Cells.
S.S. Daoud, M.K. Clements and C.L. Small.

Anti-Cancer Drugs (1995) 6, 1-8.

Rapid Detection and Speciation of Lactobacillus species in Dairy Products Using the Polymerase Chain Reaction.
M.A Drake, C.L. Small, K.D. Spence, and B.G. Swanson.
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Differentiation of Lactobacillus helveticus Strains Using Molecular Typing Methods.
M.A. Drake, C.L. Small, K.D. Spence, and B.G. Swanson.
Food Research International (1996) 29, 451-455.

Biological control of leafrollers using insect-specific midgut bacteria of the leafroller, Pandemispurusana, and their potential in delivering foreign genes for biological control.
J.L. McKillip, C.L. Small and K.D. Spence
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Three larger-insert BAC libraries and one BIBAC library of rice nipponbare.
Q.Z. Tao, A. Wang and H.-B. Zhang.
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Genome-wide physical mapping with larger-insert bacterial clones: a BAC physical map of the rice genome.
Q.Z. Tao, Y.-L. Chang, J. Wang, M.N. Islam-Faridi, D. M. Stelly, H.-B. Zhang.
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Two plant transformation ready bacterial artificial chromosome libraries for soybean: Applications in chromosome walking and genome wide physical mapping.
H. Mekesem, E. Ruben, K. Zobrist, D. Hyten, Q.Z. Tao, H.-B. Zhang and D. Lightfoot.
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Y. Wu, L. Tulsieram, Q.Z. Tao, H.-B. Zhang, and S.J. Rothstein.
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Cloning and stable maintenance of DNA fragments over 300 kb in Escherichia coli with conventional plasmid-based vectors.
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Q.Z. Tao et al..
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Establishment of transformation system and genomic DNA library of Magnaporthe grisea with cosmid vector.
G. Lu, D. Huang, Q.Z. Tao, W. Yang, L. Xie.
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M. Kimura, T. Kamakura, Q.Z. Tao, I. Kaneko and I. Yamaguchi.
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Q.Z. Tao.
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Q.Z. Tao et al..
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A Novel dominant drug resistance marker for transformation of Pyricularia oryzae.
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G. Y. Zhou,... and Q.Z. Tao. Proceeding of the International Biotechnology Workshop, 12-15 Jan., 1987. ICRISAT Center, India, Patancheru, A. P. 502324, 36-39, (in English).

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G. Y. Zhou,...and Q.Z. Tao.
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Transposable element of Drosophila.
Q.Z. Tao.
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Q.Z. Tao et al..
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Lambda cloning vector in developing.
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