



Profolio of Researchers and Research Teams

GENOMIC MEDICINE

(Last update 25/09/2013)

Code: GI-1736

Department: Anatomía Patolóxica e Ciencias Forenses

Institute: Instituto de Ciencias Forenses "Luis Concheiro"

Web: xenomica.org

Contact:

Carracedo Álvarez, Ángel María

angel.carracedo@usc.es

Telf. 981-563100 ext.12215

Center of Innovation and Thecnology Transfer

cittinfo@usc.es

Telf.: 981-547000

Research field

- Forensic genetics
- Human population genetics
- Genomic database analysis
- Human population genetics in biomedicine (simple and complex diseases)
- Molecular anthropology
- Bioinformatics
- Ancient DNA
- Oncogenetics (inherited and sporadic colorectal and breast cancer)
- Genetics of psychiatric disorders
- Ocular genetics
- Genetics of other complex diseases
- Pharmacogenetics and pharmacogenomics

- Fertilization in vitro and prenatal diagnosis
- Genetics of evolution
- Genome evolution
- Molecular evolution
- High throughput technology for genotyping of single nucleotide polymorphisms (SNPs) and DNA polymorphisms
- Genetic of neurological diseases
- Mitochondrial DNA instability in tumorigenesis
- Mitochondrial DNA diseases and complex disorders associated to the mitochondrial DNA
- Next generation sequencing (NGS)

Technology services

- Two research laboratories of 200 and 500 squared meters located in the Faculty of Medicine and Galician Public Foundation for Genomic Medicine (Hospital Clinico). Within all necessary facilities and techniques for genetic and genomic studies, theoretical and applied of maximum level. 8 sequencer, (as ABI3730, ABI3100, Megabace termocicladores, real time PCR systems), and the National Center for Genotyping (CEGEN) facilities, within two platforms for SNPs genotyping, one based on OLA and PCR (SNPlex Genotyping System) and the other based on mass spectrometry MALDITOF MS (Sequenom Mass Array System). Also facilities for the study of ancient DNA or low compy number.

Key words

DNA Polymorphisms; Simple Nucleotide Polymorphisms (SNPs); microsatellites; mitochondrial DNA; population genetics; Forensic genetics; Ancient DNA; breast cancer; colorectal cancer; inherited cancer; Molecular rheumatology; Inflammatory diseases; Ocular genetics; Fertilization in vitro; Complex disorders genetics; molecular evolution; bioinformatics; SNPs genotyping; Genetics of psychiatric disorders; next generation sequencing; exome

Researchers

Name	Position
Carracedo Álvarez,Á.M.	Coordinator
Lareu Huidobro,M.V.	Member
Maside Rodríguez,J.M.	Member
Salas Ellacuriaga,A.	Member
Taberno Duque,M.J.	Member
Abal Fabeiro,J.L.	IFP
Arcanjo Dos Santos,C.I.	IFP
Blanco Pérez,A.	IFP
Cárdenas Paredes, J.	IFP
Castillo Leon, L.	IFP
Coelho Neves Gonçalves,Ó.F.	IFP
Fachal Vilar,L.	IFP
Freire Aradas,A.M.	IFP
Gabín García,L.B.	IFP
Gago Díaz,M.	IFP

García Murias, M.	IFP
Gelabert Besada, M.	IFP
GÓMEZ MORACHO, T.	IFP
González Peñas, J.	IFP
Heinz, T.M.	IFP
Maroñas Amigo, O.	IFP
Martínez Calvo, L.	IFP
Martínez Regueiro, R.	IFP
Muhammad, N.	IFP
Ordóñez Ugalde, A.E.	IFP
Pardo Seco, J.	IFP
Puente Vila, M.	IFP
Quintela García, I.	IFP
Ramos Luís, E.	IFP
Rey González, D.	IFP
Salazar García, I.	IFP
Santori Gómez, M.	IFP
Soares Sampaio, A.	IFP
Söchtig, J.	IFP
Suárez Rama, J.J.	IFP
Yáñez Torregroza, Z.	IFP
Álvarez Iglesias, V.	PA
Amigo Lechuga, J.	PA
Cacheiro Martínez, P.	PA
Camiña Tato, M.	PA
Dosil Santiago, M.d.	PA
Fondevila Álvarez, M.	PA
Martínez Matilla, M.	PA
Mata Noya, S.M.	PA
Mosquera Miguel, A.	PA
Muñiz Pérez, S.M.	PA
Pastoriza Mourelle, A.M.	PA
Phillips, C.	PA
Rodríguez López, A.	PA
Sande Landeira, E.	PA
Torres Español, M.	PA

External collaborators

Francisco Barros Angueira	Fundación Pública Galega de Medicina Xenómica
Ana Paula Vega Gliemmo	Fundación Pública Galega de Medicina Xenómica
Clara María Ruiz Ponte	Fundación Pública Galega de Medicina Xenómica
M. Jesús Sobrido Gómez	Fundación Pública Galega de Medicina Xenómica
Beatriz Quintás Castro	Instituto de Investigación Sanitaria de Santiago
Javier Costas Costas	Instituto de Investigación Sanitaria de Santiago
Montserrat Fernández Prieto	Fundación Pública Galega de Medicina Xenómica
María José Brión Martínez	Instituto de Investigación Sanitaria de Santiago
Rosanna Abal García	Fundación Pública Galega de Medicina Xenómica
Montserrat Santori Gómez	Ciberer
José Javier Suárez Rama	Fundación Pública Galega de Medicina Xenómica
Alejandro José Blanco Vereá	Instituto de Investigación Sanitaria de Santiago
Alejandro José Brea Fernández	Ciberer
Raquel Cruz Guerrero	Ciberer
Hugo Gutiérrez de Terán Castañón	Fundación Pública Galega de Medicina Xenómica
Patricia Blanco Arias	Fundación Pública Galega de Medicina Xenómica
Beatriz Sobrino Rey	Instituto de Investigación Sanitaria de Santiago
Narenkha Franjo Pérez	Fundación Pública Galega de Medicina Xenómica
Manuela Gago Dominguez	Fundación Pública Galega de Medicina Xenómica
Ramón Manuel Lago Lestón	Fundación Pública Galega de Medicina Xenómica

Sandra Fernández Novo
Rocio Gil Torres
Marta Santamariña Pena
Catuxa Celeiro Muñoz
Jose Luis Santomé Collazo
Julio Rodríguez López
Raquel Calvo Bermúdez
María Pouso Ríos

Instituto de Investigación Sanitaria de Santiago
Instituto de Investigación Sanitaria de Santiago
Ciberer
Fundación Pública Galega de Medicina Xenómica
Fundación Pública Galega de Medicina Xenómica
Fundación Pública Galega de Medicina Xenómica
Instituto de Investigación Sanitaria de Santiago
Fundación Pública Galega de Medicina Xenómica

RTD PROJECTS (period: 2009 - 2013)

Title:

The Human Early-Life Exposome - novel tools for integrating early-life environmental exposures and child health across Europe (HELIX)

Tipology: (PI) Programas Internacionais

Duration: 01/01/2013 - 30/06/2017

Main investigator: Carracedo Álvarez, Ángel María

Title:

Proyecto integrado para el análisis FORense del genoma Mitocondrial en GALICIA (Proyectos de Grupos Emergentes).

Tipology: (PG) Plan Galego

Duration: 26/06/2012 - 25/06/2015

Main investigator: Salas Ellacuriaga, Antonio

Title:

European Forensic Genetics Network of Excellence (EUROFORGEN-NoE)

Tipology: Contratos coa UE

Duration: 01/01/2012 - 31/12/2016

Main investigator: Carracedo Álvarez, Ángel María

Title:

SURGENDIS: Apellidos, genes y enfermedad. Estudio genómico de relaciones de parentesco lejanas en poblaciones humanas e implicaciones biomédicas.

Tipology: Plan Nacional

Duration: 01/01/2012 - 31/12/2014

Main investigator: Salas Ellacuriaga, Antonio

Title:

A European Initial Training Network on the History, Archaeology, and New Genetics of the Trans-Atlantic Slave Trade (EUROTAST)

Tipology: Contratos coa UE

Duration: 01/11/2011 - 31/10/2015

Main investigator: Salas Ellacuriaga, Antonio

Title:

RESAC (Resistencia a la aspirina y al clopidogrel). Farmacogenética de antiagregantes plaquetarios.

Tipology: Outros Proxectos Nacionais

Duration: 15/12/2010 - 14/12/2013

Main investigator: Carracedo Álvarez, Ángel María

Title:

Sharing capacity across Europe in high-throughput sequencing technology to explore genetic variation in health and disease (GEUVADIS)

Tipology: Contratos coa UE

Duration: 01/10/2010 - 31/12/2013

Main investigator: Carracedo Álvarez, Ángel María

Title:

Desenvolvemento dun protocolo multilocus para o tipado xenético de alto rendimento das variedades de giardia que parasitan humanos

Tipology: Proxectos Xunta

Duration: 08/08/2010 - 30/09/2013

Main investigator: Maside Rodríguez, Julio Manuel

Title:

Desenrrolo de novas tecnoloxía para identificación xenética en tempo real na escena de atentados terroristas ou grandes catastrofes.-Detect

Tipology: Proxectos Xunta

Duration: 13/07/2009 - 01/12/2012

Main investigator: Lareu Huidobro, María Victoria

Title:

Genetic study of Common Hereditary Bowel Cancers in Hispania and the Americas (CHIBCHA)

Tipology: Contratos coa UE

Duration: 01/06/2009 - 31/05/2013

Main investigator: Carracedo Álvarez, Ángel María

Technological customers and partners

- Centro de Investigación Biomédica en Red de Salud Mental
- Consellería de Sanidade
- Fundació Clínic per a la Recerca Biomèdica
- Fundación Genoma España
- Genomed-Diagnósticos de Medicina Molecular, S.A.
- Genomix, Genetics and Health, S.L.
- Hospital Universitario de Salamanca
- Instituto de Salud Carlos III
- PARTICULAR
- Servizo Galego de Saúde
- Universidad del Cauca
- Universidad Simón Bolívar
- University of California
- Varias entidades

SCIENTIFIC PRODUCTION (period: 2007 - 2011)

Articles in scientific journals

Article:

Blepharophimosis-ptosis-epicanthus inversus syndrome (BPES).

Journal: INTERNATIONAL JOURNAL OF DERMATOLOGY, ISSN: 0011-9059
2007

Article:

Estudios de asociación en enfermedades complejas: problemas estadísticos relacionados con el análisis de polimorfismos genéticos

Journal: REVISTA CLINICA ESPANOLA, ISSN: 0014-2565
2007

Article:

Finding genes that underlie physical traits of forensic interest using genetic tools

Journal: FORENSIC SCIENCE INTERNATIONAL, ISSN: 0379-0738
2007

Article:

Forensic validation of the SNPforID 52-plex assay

Journal: FORENSIC SCIENCE INTERNATIONAL, ISSN: 0379-0738
2007

Article:

Inferring ancestral origin using a single multiplex assay of ancestry-informative marker SNPs

Journal: FORENSIC SCIENCE INTERNATIONAL, ISSN: 0379-0738
2007

Article:

Evaluation of the genplex SNP typing system and a 49plex forensic marker panel

Journal: FORENSIC SCIENCE INTERNATIONAL, ISSN: 0379-0738
2007

Article:

Genetic data of 10 X-STRs in a Spanish population sample

Journal: FORENSIC SCIENCE INTERNATIONAL, ISSN: 0379-0738
2007

Article:

Distorted mitochondrial DNA sequences in schizophrenic patients

Journal: EUROPEAN JOURNAL OF HUMAN GENETICS, ISSN: 1018-4813
2007

Article:

The search of novel mtDNA mutations in hypertrophic cardiomyopathy: MITOMAPping as a risk factor

Journal: INTERNATIONAL JOURNAL OF CARDIOLOGY, ISSN: 0167-5273
2007

Article:

High penetrance of sequencing errors and interpretative shortcomings in mtDNA sequence analysis of LHON patients

Journal: BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, ISSN: 0006-291X
2007

Article:

Clinical and molecular characterization of Wilson disease in Spanish patients

Journal: HEPATOLOGY RESEARCH, ISSN: 1386-6346
2007

Article:

Y chromosome genetic variation in the Italian peninsula is clinal and supports an admixture model for the Mesolithic Neolithic encounter

Journal: MOLECULAR PHYLOGENETICS AND EVOLUTION, ISSN: 1055-7903
2007

Article:

Association of the ARLTS1 Cys148Arg variant with sporadic and familial colorectal cancer

Journal: MOLECULAR PHYLOGENETICS AND EVOLUTION, ISSN: 1055-7903
2007

Article:

A Bidirectional corridor in the Sahel-Sudan Belt and the Distinctive features of the Chad Basin Populations: a history revealed by the mitochondrial DNA Genome

Journal: ANNALS OF HUMAN GENETICS, ISSN: 0003-4800
2007

Article:

Phylogenetic evidence for multiple independent duplication events at the DYS19 locus

Journal: FORENSIC SCIENCE INTERNATIONAL, ISSN: 0379-0738
2007

Article:

Extensive linkage disequilibrium mapping at HTR2A and DRD3 for schizophrenia susceptibility genes in the Galician population

Journal: Schizophrenia research, ISSN: 0920-9964
2007

Article:

Multiplex SNaPshot for detection of BRCA 1/2 common mutations in Spanish and Spanish related breast/ovarian cancer families

Journal: BMC Medical Genetics, ISSN: 1471-2350
2007

Article:

Genetic analysis of three US population groups using an X-chromosomal STR decaplex

Journal: INTERNATIONAL JOURNAL OF LEGAL MEDICINE, ISSN: 0937-9827
2007

Article:

Novel high-throughput SNP genotyping cosegregation analysis for genetic diagnosis of autosomal recessive retinitis pigmentosa and leber congenital amaurosis

Journal: HUMAN MUTATION, ISSN: 1059-7794
2007

Article:

Association of schizophrenia with DTNBP1 but not with DAO, DAOA, NRG1 and RGS4 non their genetic interaction

Journal: JOURNAL OF PSYCHIATRIC RESEARCH, ISSN: 0022-3956
2007

Article:

Association study of 69 genes in the ret pathway identifies low-penetrance loci in sporadic medullary thyroid carcinoma

Journal: CANCER RESEARCH, ISSN: 0008-5472
2007

Article:

Comment on Global Genetic Change Tracks Global Climate Warming in *Drosophila subobscura*

Journal: SCIENCE, ISSN: 0036-8075
2007

Article:

Resolving relationship tests that show ambiguous STR results using autosomal SNPs as supplementary markers

Journal: FORENSIC SCIENCE INTERNATIONAL, ISSN: 0379-0738
2008

Article:

The Pokemon (ZBTB7) Gene: No evidence of association with sporadic breast cancer

Journal: CLINICAL MEDICINE, ISSN: 1470-2118
2008

Article:

The mtDNA ancestry of admixed colombian populations

Journal: AMERICAN JOURNAL OF HUMAN BIOLOGY, ISSN: 1042-0533
2008

Article:

Recent adaptive selection at MAOB and ancestral susceptibility to schizophrenia

Journal: AMERICAN JOURNAL OF MEDICAL GENETICS PART B-NEUROPSYCHIATRIC GENETICS, ISSN: 1552-0808
2008

Article:

The SNPforID browser: an online tool for query and display of frequency data from the SNPforID project

Journal: INTERNATIONAL JOURNAL OF LEGAL MEDICINE, ISSN: 0937-9827
2008

Article:

Gender bias in the multiethnic genetic composition of central Argentina

Journal: JOURNAL OF HUMAN GENETICS, ISSN: 1434-5161
2008

Article:

Association of schizophrenia with DTNBP1 but not with DAO, DAOA, NRG1 and RGS4 nor their genetic interaction

Journal: JOURNAL OF PSYCHIATRIC RESEARCH, ISSN: 0022-3956
2007

Article:

Analyses of variants located in estrogen metabolism genes (ESR1, ESR2, COMT and APOE) and schizophrenia

Journal: SCHIZOPHRENIA RESEARCH, ISSN: 0920-9964
2007

Article:

Methylenetetrahydrofolate reductase gene, homocysteine and coronary artery disease: the A1298C polymorphism does matter. Inferences from a case study (Madeira, Portugal)

Journal: THROMBOSIS RESEARCH, ISSN: 0049-3848
2008

Article:

The brave new era of human genetic testing

Journal: BIOESSAYS, ISSN: 0265-9247
2008

Article:

Genetic origin, admixture, and asymmetry in maternal and paternal human lineages in Cuba

Journal: BMC EVOLUTIONARY BIOLOGY, ISSN: 1471-2148
2008

Article:

Minisequencing mitochondrial DNA pathogenic mutations

Journal: BMC Medical Genetics, ISSN: 1471-2350
2008

Article:

Evaluating new candidate SNPs as low penetrance risk factors in sporadic breast cancer: a two-stage spanish case-control study

Journal: GYNECOLOGIC ONCOLOGY, ISSN: 0090-8258
2008

Article:

Y chromosome microsatellite genetic variation in two Native American populations from Argentina: population stratification and mutation data

Journal: FORENSIC SCIENCE INTERNATIONAL, ISSN: 0379-0738
2008

Article:

Resolving relationship test that show ambiguous STR results using autosomal SNPs as supplementary markers

Journal: FORENSIC SCIENCE INTERNATIONAL, ISSN: 0379-0738
2008

Article:

The search of novel mtDNA mutations in hypertrophic cardiomyopathy MITOMAPing as a risk factor

Journal: INTERNATIONAL JOURNAL OF CARDIOLOGY, ISSN: 0167-5273
2008

Article:

2006 GEP-ISFG collaborative exercise on mtDNA: reflections about interpretation, artefacts, and DNA mixtures

Journal: FORENSIC SCIENCE INTERNATIONAL, ISSN: 0379-0738
2008

Article:

Identification of west eurasian mitochondrial haplogroups by mtDNA SNP screening: results of the 2006-2007 EDNAP collaborative exercise

Journal: FORENSIC SCIENCE INTERNATIONAL, ISSN: 0379-0738
2008

Article:

Results of th GEP-ISFG collaborative study on an X-STR decaplex

Journal: FORENSIC SCIENCE INTERNATIONAL, ISSN: 0379-0738
2008

Article:

GEP-SSFG proficiency testing programs: 2007 update

Journal: FORENSIC SCIENCE INTERNATIONAL, ISSN: 0379-0738
2008

Article:

Genetic characterization of 52 autosomal SNPs in the Portuguese population

Journal: FORENSIC SCIENCE INTERNATIONAL, ISSN: 0379-0738
2008

Article:

The genetic legacy of religious diversity and intolerance: paternal lineages of christians, jews, and muslims in th iberian peninsula

Journal: AMERICAN JOURNAL OF HUMAN GENETICS, ISSN: 0002-9297
2008

Article:

Forensic typing of autosomal SNPs with a 29 SNP -multiplex- results of a collaborative EDNAP exercise

Journal: FORENSIC SCIENCE INTERNATIONAL, ISSN: 0379-0738
2008

Article:

16 STR data of a Greek population

Journal: FORENSIC SCIENCE INTERNATIONAL, ISSN: 0379-0738
2008

Article:

Genetic polymorphism of 15 STR loci in central western Colombia

Journal: FORENSIC SCIENCE INTERNATIONAL, ISSN: 0379-0738
2008

Article:

Exploring mitochondrial DNA variation in th Italian Peninsula

Journal: FORENSIC SCIENCE INTERNATIONAL, ISSN: 0379-0738
2008

Article:

Genetic characterization of 52 autosomal SNPs in two sub-Saharan African populations

Journal: FORENSIC SCIENCE INTERNATIONAL, ISSN: 0379-0738
2008

Article:

Report on ISFG SNP Panel Discussion

Journal: FORENSIC SCIENCE INTERNATIONAL, ISSN: 0379-0738
2008

Article:

The distribution of Y-chromosome STRs in Dominican population

Journal: FORENSIC SCIENCE INTERNATIONAL, ISSN: 0379-0738

2008

Article:

The distribution of allele frequencies of 15 STRs in Dominican population

Journal: FORENSIC SCIENCE INTERNATIONAL, ISSN: 0379-0738

2008

Article:

Forensic validation of th Genplex SNP typing system -Results of an inter-laboratoy study

Journal: FORENSIC SCIENCE INTERNATIONAL, ISSN: 0379-0738

2008

Article:

Forensic validation and implementation of Y-chromosome SNP multiplexes

Journal: FORENSIC SCIENCE INTERNATIONAL, ISSN: 0379-0738

2008

Article:

Large scale analysis of HCM mutations in sudden cardiac death

Journal: FORENSIC SCIENCE INTERNATIONAL, ISSN: 0379-0738

2008

Article:

Challenging DNA: assessment of a range of genotyping approaches for highly degraded forensic samples

Journal: FORENSIC SCIENCE INTERNATIONAL, ISSN: 0379-0738

2008

Article:

A simulation based approach to evaluate population stratification in Argentina

Journal: FORENSIC SCIENCE INTERNATIONAL, ISSN: 0379-0738

2008

Article:

A common haplotype of DRD3 affected by recent positive selection is associated with protection from schizophrenia

Journal: HUMAN GENETICS, ISSN: 0340-6717

2008

Article:

SPSmart: adapting population based SNP genotype databases for fast and comprehensive web access

Journal: BMC BIOINFORMATICS, ISSN: 1471-2105

2008

Article:

Cognitive functioning in Williams Syndrome: a study in Portuguese and Spanish patients

Journal: EUROPEAN JOURNAL OF PAEDIATRIC NEUROLOGY, ISSN: 1090-3798

2008

Article:

Increasing the discrimination power of the mtDNA test through the analysis of a large set of haplogroup H coding region SNPs: Forensic applications and validation

Journal: FORENSIC SCIENCE INTERNATIONAL, ISSN: 0379-0738
2008

Article:

Timing and deciphering mitochondrial DNA macro-haplogroup R0 variability in Central Europe and Middle East

Journal: BMC EVOLUTIONARY BIOLOGY, ISSN: 1471-2148
2008

Article:

molecular genetics of sudden cardiac death

Journal: FORENSIC SCIENCE INTERNATIONAL, ISSN: 0379-0738
2008

Article:

The phylogeny of the four pan-american MtDNA haplogroups: implications for evolutionary disease studies

Journal: PLoS Genetics, ISSN: 1553-7390
2008

Article:

Distilling artificial recombinants from large sets of complete mtDNA genomes

Journal: PLoS Genetics, ISSN: 1553-7390
2008

Article:

Genetic variability of the SNPforID 52-plex identification-SNP panel in Central West Colombia

Journal: FORENSIC SCIENCE INTERNATIONAL, ISSN: 0379-0738
2009

Article:

Applications of MALDI-TOF MS to large-scale human mtDNA population-based studies

Journal: ELECTROPHORESIS, ISSN: 0173-0835
2009

Article:

Molecular diversity at the CYP2D6 locus in healthy and schizophrenic southern Brazilians

Journal: PHARMACOGENOMICS, ISSN: 1462-2416
2009

Article:

Exaggerated status of "novel" and "pathogenic" mtDNA sequence variants due to inadequate database searches

Journal: HUMAN MUTATION, ISSN: 1059-7794
2009

Article:

Allele frequencies of fifteen STRs in a representative sample of the Italian population

Journal: Forensic Science International-Genetics, ISSN: 1872-4973
2009

Article:

Distinctive Paleo-Indian Migration Routes from Beringia Marked by Two Rare mtDNA Haplogroups

Journal: CURRENT BIOLOGY, ISSN: 0960-9822
2009

Article:

The genetic male component of two South-Western Colombian populations

Journal: Forensic Science International-Genetics, ISSN: 1872-4973
2009

Article:

Widespread evidence for horizontal transfer of transposable elements across Drosophila genomes

Journal: GENOME BIOLOGY, ISSN: 1474-760X
2009

Article:

WITHDRAWN: A collaborative study of the EDNAP group regarding Y-chromosome binary polymorphism analysis

Journal: FORENSIC SCIENCE INTERNATIONAL, ISSN: 0379-0738
2009

Article:

Evaluating the Ability of Tree-Based Methods and Logistic Regression for the Detection of SNP-SNP Interaction

Journal: ANNALS OF HUMAN GENETICS, ISSN: 0003-4800
2009

Article:

Median network analysis of defectively sequenced entire mitochondrial genomes from early and contemporary disease studies

Journal: HUMAN GENETICS, ISSN: 0340-6717
2009

Article:

A C-Terminal mutation of ATP1A3 underscores the crucial role of sodium affinity in the pathophysiology of rapid-onset dystonia-parkinsonism

Journal: HUMAN MOLECULAR GENETICS, ISSN: 0964-6906
2009

Article:

the demographic history of african farmers and pygmy hunter-gatherers using a multilocus resequencing data se

Journal: PLoS Genetics, ISSN: 1553-7390
2009

Article:

Viability of in-house datamarting approaches for population genetics analysis of SNP genotypes

Journal: BMC BIOINFORMATICS, ISSN: 1471-2105
2009

Article:

Prevalence of CYP2C9 polymorphisms in the south of Europe

Journal: PHARMACOGENOMICS JOURNAL, ISSN: 1470-269X
2009

Article:

Contamination and sample mix-up can best explain some patterns of mtDNA instabilities in buccal cells and oral squamous cell carcinoma

Journal: BMC CANCER, ISSN: 1471-2407
2009

Article:

Population data on 15 autosomal STRs in a sample from Colombia

Journal: FORENSIC SCIENCE INTERNATIONAL, ISSN: 0379-0738
2009

Article:

Recent adaptive selection at MAOB and ancestral susceptibility to schizophrenia

Journal: AMERICAN JOURNAL OF MEDICAL GENETICS PART B-NEUROPSYCHIATRIC GENETICS, ISSN: 1552
2009

Article:

Molecular analysis of the APC and MUTYH genes in Galician and Catalanian FAP families: a different spectrum of mutations?

Journal: BMC Medicine, ISSN: 1741-7015
2009

Article:

Association of common copy number variants at the glutathione S-transferase genes and rare novel genomic changes with schizophrenia

Journal: MOLECULAR PSYCHIATRY, ISSN: 1359-4184
2009

Article:

Evaluation of DXS9902, DXS7132, DXS6809, DXS7133, and DXS7423 in humans and chimpanzees: sequence variation, repeat structure, and nomenclature

Journal: INTERNATIONAL JOURNAL OF LEGAL MEDICINE, ISSN: 0937-9827
2009

Article:

Population stratification in Argentina strongly influences likelihood ratio estimates in paternity testing as revealed by a simulation-based approach

Journal: INTERNATIONAL JOURNAL OF LEGAL MEDICINE, ISSN: 0937-9827
2009

Article:

A common haplotype of DRD3 affected by recent positive selection is associated with protection from schizophrenia

Journal: HUMAN GENETICS, ISSN: 0340-6717
2009

Article:

The Etruscan timeline: a recent Anatolian connection

Journal: EUROPEAN JOURNAL OF HUMAN GENETICS, ISSN: 1018-4813
2009

Article:

Testing the performance of mtSNP minisequencing in forensic samples

Journal: FORENSIC SCIENCE INTERNATIONAL, ISSN: 0379-0738
2009

Article:

The Karimojong from Uganda: genetic characterization using an X-STR decaplex system

Journal: FORENSIC SCIENCE INTERNATIONAL, ISSN: 0379-0738
2009

Article:

Cognitive functioning in Williams syndrome: a study in Portuguese and Spanish patients

Journal: EUROPEAN JOURNAL OF PAEDIATRIC NEUROLOGY, ISSN: 1090-3798
2009

Article:

mtDNA data mining in GenBank needs surveying

Journal: AMERICAN JOURNAL OF HUMAN GENETICS, ISSN: 0002-9297
2009

Article:

Identification of new putative susceptibility genes for several psychiatric disorders by association analysis of regulatory and non-synonymous SNPs of 306 genes involved in neurotransmission and neurodevelopment

Journal: AMERICAN JOURNAL OF MEDICAL GENETICS PART B-NEUROPSYCHIATRIC GENETICS, ISSN: 1552-2009

Article:

X-chromosome STR sequence variation, repeat structure, and nomenclature in humans and chimpanzees

Journal: INTERNATIONAL JOURNAL OF LEGAL MEDICINE, ISSN: 0937-9827
2009

Article:

A GEP-ISFG collaborative study on the optimization of an X-STR decaplex: data on 15 Iberian and Latin American populations

Journal: INTERNATIONAL JOURNAL OF LEGAL MEDICINE, ISSN: 0937-9827
2009

Article:

Evaluating new candidate SNPs as low penetrance risk factors in sporadic breast cancer: a two-stage Spanish case-control study

Journal: GYNECOLOGIC ONCOLOGY, ISSN: 0090-8258
2009

Article:

Association of MUTYH and MSH6 germline mutations in colorectal cancer patients

Journal: Familial Cancer, ISSN: 1389-9600
2009

Article:

Ancestry analysis in the 11-M Madrid bomb attack investigation

Journal: PLoS One, ISSN: 1932-6203
2009

Article:

Phenotypic characterization of Noonan syndrome and abnormalities of the GH-IGF1 axis.

Journal: HORMONE RESEARCH, ISSN: 0301-0163
2010

Article:

A new approach to long QT syndrome mutation detection by Sequenom MassARRAY system.

Journal: ELECTROPHORESIS, ISSN: 0173-0835
2010

Article:

A reduced number of mtSNPs saturates mitochondrial DNA haplotype diversity of worldwide population groups.

Journal: PLoS One, ISSN: 1932-6203
2010

Article:

A Strong Genetic Association between the Tumor Necrosis Factor Locus and Proliferative Vitreoretinopathy: The Retina 4 Project.

Journal: OPHTHALMOLOGY, ISSN: 0161-6420
2010

Article:

A multi-perspective view of genetic variation in Cameroon

Journal: AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY, ISSN: 0002-9483
2010

Article:

An X-chromosome pentaplex in two linkage groups: haplotype data in Alagoas and Rio de Janeiro populations from Brazil.

Journal: FORENSIC SCIENCE INTERNATIONAL, ISSN: 0379-0738
2010

Article:

Beyond BRCA1 and BRCA2 wild-type breast and/or ovarian cancer families: germline mutations in TP53 and PTEN

Journal: CLINICAL GENETICS, ISSN: 0009-9163
2010

Article:

COGENT (COlorectal cancer GENeTics): an international consortium to study the role of polymorphic variation on the risk of colorectal cancer

Journal: BRITISH JOURNAL OF CANCER, ISSN: 0007-0920
2010

Article:

Colorectal Cancer Susceptibility Quantitative Trait Loci in Mice as a Novel Approach to Detect Low-Penetrance Variants in Humans: A Two-Stage Case-Control Study

Journal: CANCER EPIDEMIOLOGY BIOMARKERS & PREVENTION, ISSN: 1055-9965
2010

Article:

Common variants at 2q37.3, 8q24.21, 15q21.3 and 16q24.1 influence chronic lymphocytic leukemia risk

Journal: NATURE GENETICS, ISSN: 1061-4036
2010

Article:

Digging deeper into East African human Y chromosome lineages

Journal: HUMAN GENETICS, ISSN: 0340-6717
2010

Article:

Genetic profile characterization of 10 X-STRs in four populations of the southeastern region of Brazil.

Journal: INTERNATIONAL JOURNAL OF LEGAL MEDICINE, ISSN: 0937-9827
2010

Article:

Genetic variants near TIMP3 and high-density lipoprotein-associated loci influence susceptibility to age-related macular degeneration

Journal: PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA,
2010

Article:

Genome-wide association study identifies variants in the CFH region associated with host susceptibility to meningococcal disease

Journal: NATURE GENETICS, ISSN: 1061-4036
2010

Article:

Identification of a novel mutation in the human PDE6A gene in autosomal recessive retinitis pigmentosa: homology with the nmf28/nmf28 mice model.

Journal: CLINICAL GENETICS, ISSN: 0009-9163
2010

Article:

Identification of a novel MYBPC3 gene variant in a patient with hypertrophic cardiomyopathy.

Journal: ANNALS OF CLINICAL AND LABORATORY SCIENCE, ISSN: 0091-7370
2010

Article:

Journal update

Journal: Forensic Science International-Genetics, ISSN: 1872-4973
2010

Article:

Linking the sub-Saharan and West Eurasian gene pools: maternal and paternal heritage of the Tuareg nomads from the African Sahel

Journal: EUROPEAN JOURNAL OF HUMAN GENETICS, ISSN: 1018-4813
2010

Article:

New technologies in the genetic approach to sudden cardiac death in the young.

Journal: FORENSIC SCIENCE INTERNATIONAL, ISSN: 0379-0738
2010

Article:

Nilotes from Karamoja, Uganda: haplotype data defined by 17 Y-chromosome STRs.

Journal: Forensic Science International-Genetics, ISSN: 1872-4973
2010

Article:

Nucleotide variation in central nervous system genes among male suicide attempters

Journal: AMERICAN JOURNAL OF MEDICAL GENETICS PART B-NEUROPSYCHIATRIC GENETICS, ISSN: 1552
2010

Article:

Pharmacogenetic analysis in neoadjuvant chemoradiation for rectal cancer: high incidence of somatic mutations and their relation with response.

Journal: PHARMACOGENOMICS, ISSN: 1462-2416
2010

Article:

Pharmacogenetic studies on the antipsychotic treatment. Current status and perspectives.

Journal: ACTAS ESPANOLAS DE PSIQUIATRIA, ISSN: 1139-9287
2010

Article:

Population stratification in Argentina strongly influences likelihood ratio estimates in paternity testing as revealed by a simulation-based approach

Journal: INTERNATIONAL JOURNAL OF LEGAL MEDICINE, ISSN: 0937-9827
2010

Article:

Publication of population data for forensic purposes

Journal: Forensic Science International-Genetics, ISSN: 1872-4973
2010

Article:

Single nucleotide polymorphisms in the Wnt and BMP pathways and colorectal cancer risk in a Spanish cohort.

Journal: PLoS One, ISSN: 1932-6203
2010

Article:

Susceptibility genetic variants associated with colorectal cancer risk correlate with cancer phenotype.

Journal: GASTROENTEROLOGY, ISSN: 0016-5085
2010

Article:

The Garífuna (Black Carib) people of the Atlantic coast of Honduras: Population dynamics, structure, and phylogenetics relations inferred from genetic data, migration matrices, and isonymy

Journal: AMERICAN JOURNAL OF HUMAN BIOLOGY, ISSN: 1042-0533
2010

Article:

Verification that common variation at 2q37.1, 6p25.3, 11q24.1, 15q23, and 19q13.32 influences chronic lymphocytic leukaemia risk.

Journal: BRITISH JOURNAL OF HAEMATOLOGY, ISSN: 0007-1048
2010

Article:

Y-chromosome lineages in native South American population

Journal: Forensic Science International-Genetics, ISSN: 1872-4973
2010

Article:

Genetic association study of age-related macular degeneration in the Spanish population

Journal: ACTA OPHTHALMOLOGICA, ISSN: 1755-375X
2011

Article:

Male lineages in South American native groups: Evidence of M19 traveling south

Journal: AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY, ISSN: 0002-9483
2011

Article:

Early Y chromosome lineages in Africa: the origin and dispersal of Homo sapiens

Journal: AMERICAN JOURNAL OF PHYSICAL ANTHROPOLOGY, ISSN: 0002-9483
2011

Article:

CYP2D6 genotyping by liquid chromatography-electrospray ionization mass spectrometry

Journal: ANALYTICAL AND BIOANALYTICAL CHEMISTRY, ISSN: 1618-2642
2011

Article:

Deletion of the LCE3C and LCE3B genes is a susceptibility factor for psoriatic arthritis: A study in Spanish and Italian populations and meta-analysis

Journal: ARTHRITIS AND RHEUMATISM, ISSN: 0004-3591
2011

Article:

Electrochemical DNA base pairs quantification and endonuclease cleavage detection

Journal: BIOSENSORS & BIOELECTRONICS, ISSN: 0956-5663
2011

Article:

ENGINES: exploring single nucleotide variation in entire human genomes

Journal: BMC BIOINFORMATICS, ISSN: 1471-2105
2011

Article:

Case-control study for colorectal cancer genetic susceptibility in EPICOLON: previously identified variants and mucins

Journal: BMC CANCER, ISSN: 1471-2407
2011

Article:

The impact of modern migrations on present-day multi-ethnic Argentina as recorded on the mitochondrial DNA genome

Journal: BMC GENETICS, ISSN: 1471-2156
2011

Article:

Evidence for classification of c.1852_1853AA > GC in MLH1 as a neutral variant for Lynch syndrome

Journal: BMC Medical Genetics, ISSN: 1471-2350
2011

Article:

Reassessing the role of mitochondrial DNA mutations in autism spectrum disorder

Journal: BMC Medical Genetics, ISSN: 1471-2350
2011

Article:

Germline ATM mutational analysis in BRCA1/BRCA2 negative hereditary breast cancer families by MALDI-TOF mass spectrometry

Journal: BREAST CANCER RESEARCH AND TREATMENT, ISSN: 0167-6806

Article:

International distribution and age estimation of the Portuguese BRCA2 c.156_157insAlu founder mutation

Journal: BREAST CANCER RESEARCH AND TREATMENT, ISSN: 0167-6806
2011

Article:

Characterization of BRCA1 and BRCA2 splicing variants: a collaborative report by ENIGMA consortium members

Journal: BREAST CANCER RESEARCH AND TREATMENT, ISSN: 0167-6806
2011

Article:

A two-phase case-control study for colorectal cancer genetic susceptibility: candidate genes from chromosomal regions 9q22 and 3q22

Journal: BRITISH JOURNAL OF CANCER, ISSN: 0007-0920

Article:

An Update of In Silico Tools for the Prediction of Pathogenesis in Missense Variants

Journal: Current Bioinformatics, ISSN: 1574-8936
2011

Article:

mRNA profiling for the identification of blood-Results of a collaborative EDNAP exercise

Journal: Forensic Science International-Genetics, ISSN: 1872-4973
2011

Article:

Genetic analysis of the SNPforID 34-plex ancestry informative SNP panel in Tunisian and Libyan populations

Journal: Forensic Science International-Genetics, ISSN: 1872-4973
2011

Article:

Analysis of global variability in 15 established and 5 new European Standard Set (ESS) STRs using the CEPH human genome diversity panel

Journal: Forensic Science International-Genetics, ISSN: 1872-4973
2011

Article:

A study of East Timor variability using the SNPforID 52-plex SNP panel.

Journal: Forensic Science International-Genetics, ISSN: 1872-4973
2011

Article:

Publications and letters related to the forensic genetic analysis of low amounts of DNA

Journal: Forensic Science International-Genetics, ISSN: 1872-4973
2011

Article:

A Putative "hepitype" in the ATM Gene Associated with Chronic Lymphocytic Leukemia Risk

Journal: GENES CHROMOSOMES & CANCER, ISSN: 1045-2257
2011

Article:

Adaptive selection of an incretin gene in Eurasian populations.

Journal: GENOME RESEARCH, ISSN: 1088-9051
2011

Article:

Prevalence of HCM and long QT syndrome mutations in young sudden cardiac death-related cases

Journal: INTERNATIONAL JOURNAL OF LEGAL MEDICINE, ISSN: 0937-9827
2011

Article:

Pharmacogenetics of OATP Transporters Reveals That SLCO1B1 c.388A>G Variant Is Determinant of Increased Atorvastatin Response

Journal: INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, ISSN: 1661-6596
2011

Article:

A Pharmacogenetics Study of TPMT and ITPA Genes Detects a Relationship with Side Effects and Clinical Response in Patients with Inflammatory Bowel Disease Receiving Azathioprine

Journal: Journal of Gastrointestinal and Liver Diseases, ISSN: 1841-8724
2011

Article:

Call for participation in the neurogenetics consortium within the Human Variome Project

Journal: NEUROGENETICS, ISSN: 1364-6745
2011

Article:

Genetic counselling in Neurology: A complex problem that requires regulation

Journal: NEUROLOGIA, ISSN: 0213-4853
2011

Article:

A novel MYH7 mutation links congenital fiber type disproportion and myosin storage myopathy

Journal: NEUROMUSCULAR DISORDERS, ISSN: 0960-8966

2011

Article:

A novel mutation in the OFD1 (Cxorf5) gene may contribute to oral phenotype in patients with oral-facial-digital syndrome type 1

Journal: ORAL DISEASES, ISSN: 1354-523X
2011

Article:

Use of a comprehensive panel of biomarkers to predict response to a fluorouracil-oxaliplatin regimen in patients with metastatic colorectal cancer

Journal: PHARMACOGENOMICS, ISSN: 1462-2416
2011

Article:

Multiple Common Susceptibility Variants near BMP Pathway Loci GREM1, BMP4, and BMP2 Explain Part of the Missing Heritability of Colorectal Cancer

Journal: PLoS Genetics, ISSN: 1553-7390
2011

Article:

A Statistical Framework for the Interpretation of mtDNA Mixtures: Forensic and Medical Applications

Journal: PLoS One, ISSN: 1932-6203
2011

Article:

Mitochondrial genome is a "genetic sanctuary" during the oncogenic process

Journal: PLoS One, ISSN: 1932-6203
2011

Article:

New Insights into the Lake Chad Basin Population Structure Revealed by High-Throughput Genotyping of Mitochondrial DNA Coding SNPs

Journal: PLoS One, ISSN: 1932-6203
2011

Article:

Evolutionary Analyses of Entire Genomes Do Not Support the Association of mtDNA Mutations with Ras/MAPK Pathway Syndromes

Journal: PLoS One, ISSN: 1932-6203
2011

Article:

Genetic Associations in the Vitamin D Receptor and Colorectal Cancer in African Americans and Caucasians

Journal: PLoS One, ISSN: 1932-6203
2011

Article:

Mitochondrial DNA Haplogroup Background Affects LHON, but Not Suspected LHON, in Chinese Patients

Journal: PLoS One, ISSN: 1932-6203
2011

Article:

Analysis of TGM1, ALOX12B, ALOXE3, NIPAL4 and CYP4F22 in Autosomal Recessive Congenital Ichthyosis from Galicia (NW Spain): evidence of founder effects

Journal: BRITISH JOURNAL OF DERMATOLOGY, ISSN: 0007-0963
2011

Article:

BRCA1 mutations do not increase prostate cancer risk: Results from a meta-analysis including new data

Journal: PROSTATE, ISSN: 0270-4137
2011

Article:

Clopidogrel and acetylsalicylic acid therapy monitoring by liquid chromatography tandem mass spectrometry

Journal: THERAPEUTIC DRUG MONITORING, ISSN: 0163-4356
2011

Article:

The mitochondrial genome is a "genetic sanctuary" during the oncogenic process

Journal: PLoS One, ISSN: 1932-6203
2011

Chapter:

Title:

Nuevos biomarcadores en genética forense.

Tratado de medicina legal y ciencias forenses III. Patología y biología forense

Book:

Tratado de medicina legal y ciencias forenses III. Patología y biología forense

(978-84-979087-2-6)Publicación: 2011

Editorial:Bosch

Doctoral theses:

Title:

Estudio de la variabilidad a nivel molecular del DNA autosómico, mitocondrial y del cromosoma Y en una muestra poblacional del sur-occidente de Colombia

Date of dissertation: 13/12/2007

Director: Ángel María Carracedo Álvarez, ANTONIO SALAS ELLACURIAGA

Author: María Amparo Acosta Aragón

Title:

DNA antiguo, metodología y daños moleculares. Aproximación al poblamiento del nuevo mundo.

Date of dissertation: 14/12/2007

Director: Ángel María Carracedo Álvarez, María Victoria Lareu Huidobro

Author: Nuria Naverán Ruido

Title:

Estudio de la variabilidad genética y de la expresión de los receptores 5-HT2A de serotonina y D3 de dopamina como biomarcadores candidatos en la esquizofrenia

Date of dissertation: 13/04/2007

Director: María Isabel Loza García, Ángel María Carracedo Álvarez

Author: Eduardo Domínguez Medina

Title:

Diseño y Desarrollo de un Programa de Farmacogenética en Antipsicóticos enfocado al tratamiento de la Esquizofrenia.

Date of dissertation: 30/06/2008

Director: Ángel María Carracedo Álvarez, FRANCISCO BARROS ANGUEIRA

Author: Alejandro Gesteira Ponce

Title:

Análisis genético molecular de la Retinitis Pigmentaria en dos familias que presentan diferentes modos de herencia mendeliana

Date of dissertation: 09/09/2008

Director: Ángel María Carracedo Álvarez, Roser González Duarte

Author: Alejandro José Brea Fernández

Title:

Estudio multidisciplinar de la variabilidad del ADN mitocondrial en poblaciones humanas

Date of dissertation: 13/10/2008

Director: Ángel María Carracedo Álvarez, María Victoria Lareu Huidobro, Antonio Salas Ellacuriaga

Author: Vanesa Alvarez Iglesias

Title:

Linajes del cromosoma Y humano: aplicaciones genético-poblacionales y forenses

Date of dissertation: 29/11/2008

Director: Ángel María Carracedo Álvarez, María José Brión Martínez

Author: Alejandro José Blanco Vereá

Title:

Desarrollo de nuevas técnicas para el diagnóstico genético de fibrosis quística: aplicación en el cribado neonatal

Date of dissertation: 10/11/2008

Director: Ángel María Carracedo Álvarez, FRANCISCO BARROS ANGUEIRA

Author: Pablo Raña Díez

Title:

Análisis de la Producción Biomédica de España a través de los Proyectos de Investigación del Fondo de Investigación Sanitaria durante el período 1988-2007

Date of dissertation: 06/03/2009

Director: Ángel María Carracedo Álvarez

Author: José Antonio Fernández Formoso

Title:

Xenes de susceptibilidade ó cancro colorrectal hereditario: análise en familias galegas con polipose colónica e sospeita de Síndrome de Lynch

Date of dissertation: 22/07/2009

Director: Ángel María Carracedo Álvarez, Ruiz Ponte, Clara María

Author: Nuria Gómez Fernández

Title:

Desenvolvemento de paneis de SNPs autosómicos e estudio da sua aplicación con fins forenses

Date of dissertation: 03/07/2009

Director: María Victoria Lareu Huidobro, Ángel María Carracedo Álvarez

Author: Manuel Fondevila Álvarez

Title:

Inferencia non paramétrica para a clasificación e asociación en problemas xenómicos con datos de alta dimensión

Date of dissertation: 29/01/2010

Director: Wenceslao González Manteiga, Antonio Salas Ellacuriaga, Cao Abad, Ricardo J.

Author: Manuel García Magariños

Title:

Estudo xenético da morte súpeta cardíaca: miocardiopatía hipertrófica familiar e síndrome de QT longo

Date of dissertation: 12/11/2010

Director: Ángel María Carracedo Álvarez, Brión Martínez, María José

Author: Catarina Allegue Toscano

Title:

Marcadores do cromosoma X: caracterizacións xenéticas, análise poboacional e aplicacións forenses

Date of dissertation: 15/10/2010

Director: Ángel María Carracedo Álvarez, Gusmao, Leonor

Author: Iva Gomes

Title:

Estudio do xenoma mitocondrial na enfermidade multifactorial e outras aplicacións poboacionais e forenses

Date of dissertation: 14/06/2010

Director: Ángel María Carracedo Álvarez, Antonio Salas Ellacuriaga

Author: Ana Mosquera Miguel

Title:

Estudo farmacoxenético do cancro colorrectal

Date of dissertation: 18/03/2011

Director: Ángel María Carracedo Álvarez

Author: María Jesús Lamas Díaz

Title:

Estudio sobre las características clínicas y la influencia genética en la susceptibilidad a la enfermedad meningocócica en la edad pediátrica

Date of dissertation: 05/12/2011

Director: José María Martinón Sánchez, Martinón Torres, Federico, Antonio Salas Ellacuriaga

Author: Sonia Marcos Alonso

Title:

Variabilidade do ADN mitocondrial humano: aplicacións multidisciplinares nos eidos da xenética forense, médica e poboacional

Date of dissertation: 01/07/2011

Director: Ángel María Carracedo Álvarez, Antonio Salas Ellacuriaga

Author: María Cerezo Fernández

Title:

Cumprimentando o estudio entre STRs y SNPs: Polimorfismos de Inserción/Deleción en xenética forense: principios e aplicacións

Date of dissertation: 16/12/2011

Director: Ángel María Carracedo Álvarez, Gusmao, Leonor

Author: Rui Manuel Lebreiro Pereira

Title:

Etnia e xenética na África Subsahariana

Date of dissertation: 16/12/2011

Director: Ángel María Carracedo Álvarez, Sánchez Diz, Paula, Gusmao, Leonor

Author: Verónica Daniela Ramos Gomes

Title:

Farmacoxenómica da azatioprina en pacientes con enfermidade inflamatoria intestinal

Date of dissertation: 18/07/2011

Director: Ángel María Carracedo Álvarez, Barros Angueira, Francisco

Author: william zabala fernández

Title:

Estudo da variabilidade xenética en poboacións urbáns e nativas de Arxentina. Estratificación poblacional e implicacións xenético-forenses

Date of dissertation: 19/05/2011

Director: Antonio Salas Ellacuriaga, Gusmao, Leonor

Author: Ulises Faustino Toscanini
