



Profolio of Researchers and Research Teams

IMMUNOPARASITOLOGY AND PARASITE GENETICS

(Last update 03/04/2013)

Code: GI-1219

Department: Microbioloxía e Parasitoloxía

Contact:

Martínez Ubeira, Florencio César

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Research field

- Immunoparasitology
- Immunodiagnostic
- Parasitological population genetics
- Molecular parasitology of helminths
- Applied bioinformatics

Technology services

- Production of antigens and monoclonal antibodies for immunodiagnostic of human and animal parasitic diseases.

Serodiagnostic of human anisakiosis and trichinellosis.

Key words

Trichinella; Anisakis; Fasciola; Helminths; Nematodes; Trematodes; Monoclonal antibodies; Immunodiagnostic.

Researchers

<u>Name</u>	<u>Position</u>
Martínez Ubeira, F.C.	Coordinator
Paniagua Crespo, M.E.	Member
Romarís Martínez, F.	Member
Muñoz Pose, L.	IFP

External collaborators

<u>Name</u>	<u>Institution</u>
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RTD PROJECTS (period: 2009 - 2013)

Title:

IPXP. Consolidación e estruturación de unidades de investigación competitivas. (GPC)

Tipology: (PG) Plan Galego

Duration: 17/06/2012 - 13/11/2014

Main investigator: Martínez Ubeira, Florencio César

Title:

Diseño y construcción de antígenos quiméricos poliepitópicos empleando discriminación self-nonsel. Aplicaciones al control de la fasciolosis en rumiantes (subproyecto).

Tipology: Plan Nacional

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

Main investigator: Martínez Ubeira, Florencio César

Title:

Nuevas estrategias en el diseño de vacunas empleando discriminación self-nonsel: vacunas quiméricas poliepitópicas para el control de la fasciolosis en rumiantes (subproyecto)

Tipology: Plan Nacional

Duration: 01/01/2011 - 31/12/2011

Main investigator: Martínez Ubeira, Florencio César

Title:

Alerxenicidade e potencial diagnóstico das proteasas de Trichinella spiralis

Tipology: Proxectos Xunta

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

Main investigator: Romarís Martínez, Fernanda

Technological customers and partners

- Alk-Abelló-Alergía e Inmunología Abelló, S.A.
- Bial-Industrial Farmacéutica, S.A.
- BIO-X Diagnostics
- Haukeland University Hospital
- Inmunotek, S.L.
- Instituto de Salud Carlos III
- Laboratorios LETI, S.L.

- Universidad del País Vasco

Patents

Application: P9201859

Application date: 16/09/1992

Title:

PLACA PARA CULTIVOS CELULARES CON UN SISTEMA DE DIFUSION LATERAL DE MOLECULAS A TRAVES DE MEMBRANA BARRERA.

Inventors: - Martínez Ubeira, Florencio César

SCIENTIFIC PRODUCTION (period: 2007 - 2011)

Articles in scientific journals

Article:

Computational chemistry comparison of stable/nonstable protein mutants classification models based on 3D and topological indices.

Journal: JOURNAL OF COMPUTATIONAL CHEMISTRY, ISSN: 0192-8651
2007

Article:

Medicinal Chemistry and Bioinformatics - current trends in drugs discovery with networks topological indices

Journal: CURRENT TOPICS IN MEDICINAL CHEMISTRY, ISSN: 1568-0266
2007

Article:

Computational chemistry development of a unified free energy Markov model for the distribution of 1300 chemicals to 38 different environmental or biological systems.

Journal: JOURNAL OF COMPUTATIONAL CHEMISTRY, ISSN: 0192-8651
2007

Article:

2D-RNA-coupling numbers: a new computational chemistry approach to link secondary structure topology with biological function

Journal: JOURNAL OF COMPUTATIONAL CHEMISTRY, ISSN: 0192-8651
2007

Article:

Computational chemistry approach to protein kinase recognition using 3D stochastic van der Waals spectral moments

Journal: JOURNAL OF COMPUTATIONAL CHEMISTRY, ISSN: 0192-8651
2007

Article:

Computational chemistry approach to protein kinase recognition using 3D stochastic van der Waals spectral moments

Journal: JOURNAL OF PROTEOME RESEARCH, ISSN: 1535-3893
2007

Article:

Chemometrics for QSAR with low sequence homology: Mycobacterial promoter sequences recognition with 2D-RNA entropies. Chemometrics and Intelligent Laboratory Systems 85: 20 - 26

Journal: CHEMOMETRICS AND INTELLIGENT LABORATORY SYSTEMS, ISSN: 0169-7439
2007

Article:

ANN-QSAR model for selection of anticancer leads from structurally heterogeneous series of compounds

Journal: EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, ISSN: 0223-5234
2007

Article:

On the applicability of QSAR for recognition of miRNA bioorganic structures at early stages of organism and cell development: embryo and stem cells.

Journal: BIOORGANIC & MEDICINAL CHEMISTRY, ISSN: 0968-0896
2007

Article:

Unified QSAR approach to antimicrobials. Part 2: Predicting activity against more than 90 different species in order to halt antibacterial resistance.

Journal: BIOORGANIC & MEDICINAL CHEMISTRY, ISSN: 0968-0896
2007

Article:

QSAR study of anticoccidial activity for diverse chemical compounds: prediction and experimental assay of trans-2-(2-Nitrovinyl)furan

Journal: BIOORGANIC & MEDICINAL CHEMISTRY, ISSN: 0968-0896
2007

Article:

The use of MM3 monoclonal antibodies for the early immunodiagnosis of ovine fascioliasis

Journal: JOURNAL OF PARASITOLOGY, ISSN: 0022-3395
2007

Article:

Acanthamoeba as a temporal vehicle of Cryptosporidium.

Journal: PARASITOLOGY RESEARCH, ISSN: 0932-0113
2007

Article:

Proteomics, networks and connectivity indices

Journal: PROTEOMICS, ISSN: 1615-9853
2008

Article:

Predicting antimicrobial drugs and targets with the MARCH-INSIDE approach.

Journal: CURRENT TOPICS IN MEDICINAL CHEMISTRY, ISSN: 1568-0266
2008

Article:

Comparative study of topological indices of macro/supramolecular RNA complex networks.

Journal: Journal of Chemical Information and Modeling, ISSN: 1549-9596
2008

Article:

QSAR model for alignment-free prediction of human breast cancer biomarkers based on electrostatic potentials of protein pseudofolding HP-lattice networks.

Journal: JOURNAL OF COMPUTATIONAL CHEMISTRY, ISSN: 0192-8651
2008

Article:

Quantitative structure-activity relationship and complex network approach to monoamine oxidase A and B inhibitors.

Journal: JOURNAL OF MEDICINAL CHEMISTRY, ISSN: 0022-2623
2008

Article:

3D-MEDNEs: an alternative "in silico" technique for chemical research in toxicology. 2. quantitative proteome-toxicity relationships (QPTR) based on mass spectrum spiral entropy.

Journal: CHEMICAL RESEARCH IN TOXICOLOGY, ISSN: 0893-228X
2008

Article:

Unified QSAR and network-based computational chemistry approach to antimicrobials, part 1: multispecies activity models for antifungals.

Journal: JOURNAL OF COMPUTATIONAL CHEMISTRY, ISSN: 0192-8651
2008

Article:

MMM-QSAR recognition of ribonucleases without alignment: comparison with an HMM model and isolation from *Schizosaccharomyces pombe*, prediction, and experimental assay of a new sequence.

Journal: Journal of Chemical Information and Modeling, ISSN: 1549-9596
2008

Article:

Quantitative studies on Structure-Activity and Structure-Property Relationships (QSAR/QSPR).

Journal: CURRENT TOPICS IN MEDICINAL CHEMISTRY, ISSN: 1568-0266
2008

Article:

Evaluation of the flukicide treatment policy for dairy cattle in Galicia (NW Spain).

Journal: VETERINARY PARASITOLOGY, ISSN: 0304-4017
2008

Article:

Novel sequences and epitopes of diagnostic value derived from the *Anisakis simplex* Ani s 7 major allergen.

Journal: ALLERGY, ISSN: 0105-4538
2008

Article:

Unified QSAR approach to antimicrobials. Part 3: first multi-tasking QSAR model for input-coded prediction, structural back-projection, and complex networks clustering of antiprotozoal compounds.

Journal: BIOORGANIC & MEDICINAL CHEMISTRY, ISSN: 0968-0896
2008

Article:

HP-Lattice QSAR for dynein proteins: experimental proteomics (2D-electrophoresis, mass spectrometry) and theoretic study of a Leishmania infantum sequence.

Journal: BIOORGANIC & MEDICINAL CHEMISTRY, ISSN: 0968-0896
2008

Article:

Using spectralmoments of spiral networks based on PSA/mass spectra outcomes to derive quantitative proteome-disease relationships (QPDRs) and predicting prostate cancer.

Journal: BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, ISSN: 0006-291X
2008

Article:

Quantitative Proteome-Property Relationships (QPPRs). Part 1: finding biomarkers of organic drugs with mean Markov connectivity indices of spiral networks of blood mass spectra.

Journal: BIOORGANIC & MEDICINAL CHEMISTRY, ISSN: 0968-0896
2008

Article:

Mixed infection, Trichinella spiralis and Trichinella britovi, in a wild boar hunted in the Province of Cáceres (Spain).

Journal: EXPERIMENTAL PARASITOLOGY, ISSN: 0014-4894
2008

Article:

Anisakis simplex: the high prevalence in Madrid (Spain) and its relation with fish consumption.

Journal: EXPERIMENTAL PARASITOLOGY, ISSN: 0014-4894
2008

Article:

Quantitative Studies on Structure-Activity and Structure-Property Relationships (QSAR/ QSPR)

Journal: CURRENT TOPICS IN MEDICINAL CHEMISTRY, ISSN: 1568-0266
2008

Article:

Natural/random protein classification models based on star network topological indices.

Journal: JOURNAL OF THEORETICAL BIOLOGY, ISSN: 0022-5193
2008

Article:

QSARA and complex network study of the chiral HMGR inhibitor structural diversity

Journal: BIOORGANIC & MEDICINAL CHEMISTRY, ISSN: 0968-0896
2009

Article:

Alignment-free prediction of mycobacterial DNA promoters based on pseudo-folding lattice

Journal: JOURNAL OF THEORETICAL BIOLOGY, ISSN: 0022-5193
2009

Article:

Alignment-Free Prediction of Polygalacturonases with Pseudofolding Topological Indices: Experimental Isolation from Coffea arabica and Prediction of a New Sequence

Journal: JOURNAL OF PROTEOME RESEARCH, ISSN: 1535-3893
2009

Article:

Alignment-free prediction of a Drug-Target Complex Network based on Parameters of Drug Connectivity and Protein Sequence of Receptors

Journal: MOLECULAR PHARMACEUTICS, ISSN: 1543-8384
2009

Article:

Study of peptide fingerprinters of parasite proteins and drug-DNA interactions with Markov-Mean-Energy invariants of biopolymer molecular-dynamic lattice networks

Journal: POLYMER, ISSN: 0032-3861
2009

Article:

A network-QSAR model for prediction of genetic-component biomarkers in human colorectal cancer

Journal: JOURNAL OF THEORETICAL BIOLOGY, ISSN: 0022-5193
2009

Article:

Complex network spectral moments for ATCUN motif DNA cleavage: first predictive study on proteins of human pathogen parasites

Journal: JOURNAL OF PROTEOME RESEARCH, ISSN: 1535-3893
2009

Article:

Multi-target spectral moment: QSAR for antiviral drugs vs. different viral species.

Journal: ANALYTICA CHIMICA ACTA, ISSN: 0003-2670
2009

Article:

3D entropy and moments prediction of enzyme classes and experimental-theoretic study of peptide fingerprints in Leishmania parasites

Journal: Biochimica et Biophysica Acta-Genes and Cell Regulation, ISSN: 1874-9399
2009

Article:

Generalized lattice graphs for 2D-visualization of biological information

Journal: JOURNAL OF THEORETICAL BIOLOGY, ISSN: 0022-5193
2009

Article:

Multi-target spectral moments for QSAR and Complex Networks study of antibacterial drugs.

Journal: EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, ISSN: 0223-5234
2009

Article:

Scoring function for DNA-drug docking of anticancer and antiparasitic compounds based on spectral moments of 2D lattice graphs for molecular dynamics trajectories.

Journal: EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, ISSN: 0223-5234
2009

Article:

Prediction of enzyme classes from 3D structure: a general model and examples of experimental-theoretic scoring of peptide mass fingerprints of Leishmania proteins.

Journal: JOURNAL OF PROTEOME RESEARCH, ISSN: 1535-3893
2009

Article:

Multi-target spectral moment: QSAR for antifungal drugs vs. different fungi species

Journal: EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, ISSN: 0223-5234
2009

Article:

Alignment-free prediction of polygalacturonases with pseudofolding topological indices: experimental isolation from Coffea arabica and prediction of a new sequence

Journal: JOURNAL OF PROTEOME RESEARCH, ISSN: 1535-3893
2009

Article:

Alignment-free prediction of a drug-target complex network based on parameters of drug connectivity and protein sequence of receptors.

Journal: MOLECULAR PHARMACEUTICS, ISSN: 1543-8384
2009

Article:

Unified QSAR approach to antimicrobials. 4. Multi-target QSAR modeling and comparative multi-distance study of the giant components of antiviral drug-drug complex networks.

Journal: BIOORGANIC & MEDICINAL CHEMISTRY, ISSN: 0968-0896
2009

Article:

Multi-target QPDR classification model for human breast and colon cancer-related proteins using star graph topological indices

Journal: JOURNAL OF THEORETICAL BIOLOGY, ISSN: 0022-5193
2009

Article:

Computational chemistry study of 3D-structure-function relationships for enzymes based on Markov models for protein electrostatic, HINT, and van der Waals potentials

Journal: JOURNAL OF COMPUTATIONAL CHEMISTRY, ISSN: 0192-8651
2009

Article:

MM3-ELISA detection of Fasciola hepatica coproantigens in preserved human stool samples

Journal: AMERICAN JOURNAL OF TROPICAL MEDICINE AND HYGIENE, ISSN: 0002-9637
2009

Article:

MM3-ELISA evaluation of coproantigen release and serum antibody production in sheep experimentally infected with Fasciola hepatica and F. gigantica.

Journal: VETERINARY PARASITOLOGY, ISSN: 0304-4017
2009

Article:

The Anisakis simplex Anisakis 7 major allergen as an indicator of true Anisakis infections.

Journal: CLINICAL AND EXPERIMENTAL IMMUNOLOGY, ISSN: 0009-9104
2009

Article:

Field evaluation of the MM3-SERO ELISA for detection of anti-Fasciola IgG antibodies in milk samples from individual cows and bulk milk tanks

Journal: PARASITOLOGY INTERNATIONAL, ISSN: 1383-5769
2010

Article:

Review of QSAR models for enzyme classes of drug targets: Theoretical background and applications in parasites, hosts, and other organisms.

Journal: CURRENT PHARMACEUTICAL DESIGN, ISSN: 1381-6128
2010

Article:

Predicting drugs and proteins in parasite infections with topological indices of complex networks: theoretical backgrounds, applications, and legal issues

Journal: CURRENT PHARMACEUTICAL DESIGN, ISSN: 1381-6128
2010

Article:

Review of MARCH-INSIDE & complex networks prediction of drugs: ADMET, anti-parasite activity, metabolizing enzymes and cardiotoxicity proteome biomarkers

Journal: CURRENT DRUG METABOLISM, ISSN: 1389-2002
2010

Article:

Diagnosing human anisakiasis: recombinant Anisakis 1 and Anisakis 7 allergens versus the UniCAP 100 fluorescence enzyme immunoassay

Journal: Clinical and Vaccine Immunology, ISSN: 1556-6811
2010

Article:

Kinetics of anti-Fasciola IgG antibodies in serum and milk from dairy cows during lactation, and in serum from calves after feeding colostrum from infected dams

Journal: VETERINARY PARASITOLOGY, ISSN: 0304-4017
2010

Article:

QSAR for Rnases and theoretic-experimental study of molecular diversity on peptide mass fingerprints of a new Leishmania infantum protein

Journal: MOLECULAR DIVERSITY, ISSN: 1381-1991
2010

Article:

Unified QSAR & network-based computational chemistry approach to antimicrobials. II. Multiple distance and triadic census analysis of antiparasitic drugs complex networks.

Journal: JOURNAL OF COMPUTATIONAL CHEMISTRY, ISSN: 0192-8651
2010

Article:

Development and evaluation of a new lateral flow immunoassay for serodiagnosis of human fasciolosis.

Journal: PLoS Neglected Tropical Diseases, ISSN: 1935-2727
2011

Article:

Molecular and immunological characterization of Fasciola antigens recognized by the MM3 monoclonal antibody.

Journal: MOLECULAR AND BIOCHEMICAL PARASITOLOGY, ISSN: 0166-6851
2011

Article:

MISS-Prot: web server for self/non-self discrimination of protein residue networks in parasites; theory and experiments in Fasciola peptides and Anisakis allergens

Journal: Molecular BioSystems, ISSN: 1742-206X
2011

Article:

Association between anti-F. hepatica antibody levels in milk and production losses in dairy cows.

Journal: VETERINARY PARASITOLOGY, ISSN: 0304-4017
2011

Article:

Synergism between prior Anisakis simplex infections and intake of NSAIDs, on the risk of upper digestive bleeding: a case-control study

Journal: PLoS Neglected Tropical Diseases, ISSN: 1935-2727
2011

Article:

Using entropy of drug and protein graphs to predict FDA drug-target network: theoretic-experimental study of MAO inhibitors and hemoglobin peptides from Fasciola hepatica

Journal: EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, ISSN: 0223-5234
2011

Article:

MIND-BEST: Web server for drugs and target discovery; design, synthesis, and assay of MAO-B inhibitors and theoretical-experimental study of G3PDH protein from Trichomonas gallinae

Journal: JOURNAL OF PROTEOME RESEARCH, ISSN: 1535-3893
2011

Article:

Allozyme markers suitable for population genetic analysis of Fasciola hepatica

Journal: VETERINARY PARASITOLOGY, ISSN: 0304-4017
2011

Article:

NL MIND-BEST: a web server for ligands and proteins discovery--theoretic-experimental study of proteins of Giardia lamblia and new compounds active against Plasmodium falciparum.

Journal: JOURNAL OF THEORETICAL BIOLOGY, ISSN: 0022-5193
2011

Article:

First computational chemistry multi-target model for anti-Alzheimer, anti-parasitic, anti-fungi, and anti-bacterial activity of GSK-3 inhibitors in vitro, in vivo, and in different cellular lines

Journal: MOLECULAR DIVERSITY, ISSN: 1381-1991
2011

Article:

Review of computer-aided models for predicting collagen stability

Journal: Current Computer-Aided Drug Design, ISSN: 1573-4099
2011

Article:

From chemical graphs in computer-aided drug design to general markov-galvez indices of drugtarget,proteome, drug-parasitic disease, technological, and social-legal networks

Journal: Current Computer-Aided Drug Design, ISSN: 1573-4099
2011

Article:

2D MI-DRAGON: a new predictor for protein-ligands interactions and theoretic-experimental studies of US FDA drug-target network, oxoisoaporphine inhibitors for MAO-A and human parasite proteins

Journal: EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, ISSN: 0223-5234
2011

Article:

Using the TOPS-MODE approach to fit multi-target QSAR models for tyrosine kinases inhibitors

Journal: EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, ISSN: 0223-5234
2011

Book:

Title:

Topological Indices for Medicinal Chemistry, Biology, Parasitology, Neurological and Social Networks
(978-81-7895-489-9) Publicación: 2010

Editorial:Transworld Research Network

Chapter:

Title:

Directed network topological indices for van der Waals complexes based on Coupled Cluster interaction energies

Book:

Topological indices for Medicinal Chemistry, Biology, Parasitology, Neurological and Social Networks
(978-81-7895-489-9)Publicación: 2010

Editorial:Transworld Research Network

Title:

Markov Entropy Centrality: Chemical, Biological, Crime and Legislative Networks

Book:

Towards an information theory of Complex Networks: Statistical Methods and Applications

(978-0-8176-4903-6)Publicación: 2011

Editorial:Birkhäuser/Springer Publishing

Title:

Chapter 1: Multi-target markov entropy QSAR for antiviral drugs vs. different viral species

Book:

Complex Network Entropy: From Molecules to Biology, Parasitology, Technology, Social, Legal, and Neuroscience

(978-81-7895-507-0)Publicación: 2011

Editorial:Transworld Research Networkng

Title:

Chapter 2: Entropy Multi-target QSAR model for Anti-Parasitic and Anti-Alzheimer GSK-3 inhibitors

Book:

Complex Network Entropy: From Molecules to Biology, Parasitology, Technology, Social, Legal, and Neuroscience

(978-81-7895-507-0)Publicación: 2011

Editorial:Transworld Research Networkng

Title:

Chapter 3: Predicting drug-parasite networks based on Markov Entropy indices of drug structure

Book:

Complex Network Entropy: From Molecules to Biology, Parasitology, Technology, Social, Legal, and Neuroscience

(978-81-7895-507-0)Publicación: 2011

Editorial:Transworld Research Networkng

Title:

Chapter 4: A model based on Markov Entropy to predict the stability of collagen peptides

Book:

Complex Network Entropy: From Molecules to Biology, Parasitology, Technology, Social, Legal, and Neuroscience

(978-81-7895-507-0)Publicación: 2011

Editorial:Transworld Research Networkng

Title:

Chapter 5: Non-self discrimination of parasite proteins with entropy of 3D structure networks and artificial neural networks

Book:

Complex Network Entropy: From Molecules to Biology, Parasitology, Technology, Social, Legal, and Neuroscience

(978-81-7895-507-0)Publicación: 2011

Editorial:Transworld Research Networkng

Title:

Chapter 6: Predicting parasite-host networks with Markov entropy measures for secondary structures of RNA phylogenetic biomarkers

Book:

Complex Network Entropy: From Molecules to Biology, Parasitology, Technology, Social, Legal, and Neuroscience

(978-81-7895-507-0)Publicación: 2011
Editorial:Transworld Research Networkng

Title:

Chapter 7: Using Shannon entropy to seek a QSPR model for cerebral cortex co-activation networks

Book:

Complex Network Entropy: From Molecules to Biology, Parasitology, Technology, Social, Legal, and Neuroscience

(978-81-7895-507-0)Publicación: 2011
Editorial:Transworld Research Networkng

Title:

Chapter 7: Using Shannon entropy to seek a QSPR model for cerebral cortex co-activation networks

Book:

Complex Network Entropy: From Molecules to Biology, Parasitology, Technology, Social, Legal, and Neuroscience

(978-81-7895-507-0)Publicación: 2011
Editorial:Transworld Research Networkng

Title:

Chapter 9: Predicting fasciolosis in Galicia with Shannon entropy of landscape complex network

Book:

Complex Network Entropy: From Molecules to Biology, Parasitology, Technology, Social, Legal, and Neuroscience

(978-81-7895-507-0)Publicación: 2011
Editorial:Transworld Research Networkng

Title:

Chapter 10: Markov entropy for biology, parasitology, linguistic, technology, social and law networks

Book:

Complex Network Entropy: From Molecules to Biology, Parasitology, Technology, Social, Legal, and Neuroscience

(978-81-7895-507-0)Publicación: 2011
Editorial:Transworld Research Networkng

Doctoral theses:

Title:

Alérxenos recombinantes de Anisakis

Date of dissertation: 09/07/2010

Director: Florencio César Martínez Ubeira, Fernanda Romarís Martínez, Gárate Ormaechea, María Teresa

Author: Ana M^a Anadón Ruíz

Title:

New QSAR models based on Markov Chains to predict protein functions

Date of dissertation: 20/12/2010

Director: Eugenio Uriarte Villares, Humberto González Díaz, Gianni Poda

Author: Riccardo Concu

Title:

Construcción QSAR de Redes Complexas de Compostos de interese en Química Farmacéutica, Microbioloxía e Parasitoloxía

Date of dissertation: 10/06/2011

Director: Xerardo Xusto García Mera, PRADO PRADO, FRANCISCO, Humberto González Díaz

Author: Isela García Pintos
