



Profolio of Researchers and Research Teams

SYSTEMS NEUROSCIENCE

(Last update 03/04/2013)

Code: GI-1909

Department: Fisioloxía

Contact:

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Research field

- Sensorimotor neuroscience.
Neuroscience of vision.
Cognitive functions: memory and decision making.
Neuronal computation.

Technology services

- Studies on experimental neuropharmacology (behavior and neural function).
Techniques available for electrophysiological recordings(experimental neurophysiology).

Key words

Electrophysiology; neuropharmacology; neural systems´ simulation, working memory, decision making.

Researchers

Name

Martín Cora,F.J.
Acuña Castroviejo,C.
Canedo Lamas,A.
Dominguez Arcos,M.

Position

Coordinator
Member
Member
IFP

External collaborators

Name

Institution

RTD PROJECTS (period: 2009 - 2013)

Title:

Relaciones funcionales entre las neuronas nociceptivas del subnúcleo reticular dorsal y del núcleo reticular gigantocelular en gatos anestesiados.

Tipology: (PN) Plan Nacional

Duration: 01/01/2013 - 31/12/2015

Main investigator: Canedo Lamas, Antonio

Title:

Correlatos psicofísicos y neurales de la toma de decisiones y la memoria de trabajo (subproyecto)

Tipology: Plan Nacional

Duration: 01/01/2011 - 31/12/2013

Main investigator: Acuña Castroviejo, Carlos

Title:

Estudio electrofisiológico de las neuronas talámicas nociceptivas en gatos anestesiados

Tipology: Plan Nacional

Duration: 01/01/2010 - 31/12/2012

Main investigator: Canedo Lamas, Antonio

Title:

Estudo do procesamento nociceptivo a nivel talamico

Tipology: Proxectos Xunta

Duration: 06/08/2009 - 03/12/2012

Main investigator: Canedo Lamas, Antonio

SCIENTIFIC PRODUCTION (period: 2007 - 2011)

Articles in scientific journals

Article:

A flexible method to measure synchrony in neuronal firing

Journal: JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION, ISSN: 0162-1459
2008

Article:

Neural correlates of decision and their outcomes in the ventral premotor cortex

Journal: JOURNAL OF NEUROSCIENCE, ISSN: 0270-6474
2008

Article:

Processing noxious information at the subnucleus reticularis dorsalis (SRD) of anesthetized cats.
Wind-up mechanisms

Journal: PAIN, ISSN: 0304-3959

2008

Article:

A role for the ventral premotor cortex beyond performance monitoring

Journal: PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, 2009

Article:

Processing afferent proprioceptive information at the main cuneate nucleus of anesthetized cats.

Journal: JOURNAL OF NEUROSCIENCE, ISSN: 0270-6474
2010

Article:

Decision-Making, Behavioral Supervision and Learning: An Executive role for the ventral premotor cortex?

Journal: NEUROTOXICITY RESEARCH, ISSN: 1029-8428
2010

Article:

Assesing neural activity related to decision-making through flexible odds ratio curves and their derivatives.

Journal: STATISTICS IN MEDICINE, ISSN: 0277-6715
2011

Article:

Ventral premotor cortex neuronal activity matches perceptual decisions.

Journal: EUROPEAN JOURNAL OF NEUROSCIENCE, ISSN: 0953-816X
2011

Article:

Intracellular recordings of subnucleus reticularis dorsalis neurones revealed novel electrophysiological properties and windup mechanisms.

Journal: JOURNAL OF PHYSIOLOGY-LONDON, ISSN: 0022-3751
2011

Doctoral theses:

Title:

Papel de la corteza premotora ventral en la toma de decisiones

Date of dissertation: 12/12/2008

Director: Carlos Acuña Castroviejo

Author: José Luis Pardo Vázquez
