



Antoni Valero Cabre

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Summary of CV

This section describes briefly a summary of your career in science, academic and research; the main scientific and technological achievements and goals in your line of research in the medium -and long- term. It also includes other important aspects or peculiarities.

I hold a degree in Medicine and Surgery from the Universitat Autònoma de Barcelona (1995), Master (1996) and Doctorate in Neurosciences from the UAB (1999) and Postdoctoral training in behavioral and cognitive neurology, brain neuroplasticity and neuromodulation at the Harvard Medical School (HMS-BIDMC) and Boston University School of Medicine (BUSM) (2000-2003). I have been a professor of Neurobiology and Neuroanatomy and Co-director of the Cerebral Dynamics, Plasticity and Rehabilitation laboratory of this institution (2004-2009), then I obtained a permanent CNRS position in Paris (France) and since 2014, I am a tenured research professor (Directeur de Recherche) in the field of cognitive neuroscience and behavioral neurology and director of the research group in Brain Dynamics, Plasticity and Cognitive Rehabilitation (Equipe FRONTLAB) at the Institut du Cerveau et la Moelle (ICM, UMR CNRS 7225, INSERM UMR 1127, Sorbonne Université) within the Hôpital de la Pitié-Salpêtrière campus in Paris (France). I am also part time Professor at the Universitat Oberta de Catalunya (School of Psychology & Area of Health), since 2008 (16 years). I currently direct a research group at the ICM (Paris) integrated by 2 PhD students, 2-3 potsdocs, 2 collaborative clinicians, 1 Clinical research assistant and 3 Master students. My research activities since the end of my PhD (1999) and after my last AQU accreditation as Professor Agregat (2009) can be framed in a model of translational research to humans supported in rigorous scientific evidence developed initially in animal models of peripheral nerve, spinal cord or brain damage (mice, rat, cat and monkey) and later healthy humans and neuropsychiatric patients (motor and cognitive impairments after stroke, early onset dementia syndromes such as primary progressive aphasia, PSP, DFT and Alzheimer disease, Schizophrenia, Depression, Parkinson, Obsessive Compulsive Syndromes). Clinical experience demonstrates that brain plasticity operating at the level of perilesional and distant spared neural systems might have the potential to drive recovery after irreversible cerebral damage. Nonetheless traditional rehabilitation used in isolation show erratic results and remain far from being scientifically validated. The long-term goal of my research program is to develop, implement and validate new cognitive rehabilitation methods which show efficacy at manipulating the plastic properties of intact or focally damaged neural circuitry to achieve performance improvements in humans, while making such knowledge and procedures available to the fields of neurology, psychiatry, cognitive rehabilitation, and neuropsychology. I have focused on the use of noninvasive brain neurostimulation (TMS, tCS and its derivatives tDCS, tACS and tRNS) in combination with rehabilitation (visual stimulation/spatial cuing, language activations), with a prior understanding of the key cellular and metabolic events affecting the underlying neural circuitry (animal and human PET MRI, MRI lesion analyses, DTI measures and resting state or task activated fMRI and scalp, epidural and intracranial local field potentials and EEG) and its dynamic reorganization after injury or rehabilitation treatments. I am author of 107 peer reviewed international publications, editor or author of 9 published books and 9 books chapters. I have supervised 9 PhD thesis (2 ongoing) and more than 75 Master thesis.



General quality indicators of scientific research

This section describes briefly the main quality indicators of scientific production (periods of research activity, experience in supervising doctoral theses, total citations, articles in journals of the first quartile, H index...). It also includes other important aspects or peculiarities.

No. Total articles peer reviewed : 107 articles and 10 preprints

No. First author : 21 articles

No. Last author : 48 articles

No. Intermediary Author: 36 articles

H-index: 34

Total no. of citations: 5509 citations

Articles on Q1 (WoS) : 39 articles Articles on Q2 (WoS) : 26 articles

Articles on Q3 (WoS) : 20 articles

Articles on Q4 (WoS) 8 articles

ORCID number (<https://orcid.org/>) : 0000-0002-5033-2279

Hal Number (<https://hal.science/>): Idref: 07609345X, Id Hall: avalerocabre

Scopus Number (<https://www.scopus.com/>): 6603304987



Antoni Valero Cabre

Current professional situation

Employing entity: FUNDACIO PER A LA UNIVERSITAT OBERTA DE CATALUNYA

Department: Estudis de Salut

Professional category: Professor

Start date: 19/01/2023

Type of contract: Permanent employment contract

Dedication regime: Part time

Primary (UNESCO code): 241111 - Neurophysiology; 249000 - Neurosciences

Secondary (UNESCO code): 320507 - Neurology; 321100 - Psychiatry

Tertiary (UNESCO code): 241009 - Human neuro-anatomy

Employing entity: CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE **Type of entity:** State agency

Department: COGNITIVE NEUROSCIENCE, PARIS BRAIN AND SPINE INSTITUTE

Professional category: Professor

Start date: 01/10/2006

Type of contract: Civil servant

Dedication regime: Full time

Primary (UNESCO code): 241111 - Neurophysiology; 249000 - Neurosciences

Secondary (UNESCO code): 320507 - Neurology; 321100 - Psychiatry

Tertiary (UNESCO code): 241009 - Human neuro-anatomy

Previous positions and activities

	Employing entity	Professional category	Start date
1		Adjunct Associate Professor	01/10/2009



	Employing entity	Professional category	Start date
	BOSTON UNIVERSITY SCHOOL OF MEDICINE		
2	FUNDACIO PER A LA UNIVERSITAT OBERTA DE CATALUNYA	Professor Col.laborador	01/09/2008
3	BOSTON UNIVERSITY SCHOOL OF MEDICINE	Assistant Professor	01/06/2004
4	HARVARD MEDICAL SCHOOL-BIDMC	Research Postdoctoral Associate	01/01/2004
5	HARVARD MEDICAL SCHOOL-BIDMC	Research Postdoctoral Fellow	01/11/2000
6	BOSTON UNIVERSITY SCHOOL OF MEDICINE	Research Postdoctoral Fellow	01/11/2002

- 1** **Employing entity:** BOSTON UNIVERSITY SCHOOL OF MEDICINE **Type of entity:** University
Professional category: Adjunct Associate Professor
Start-End date: 01/10/2009 - 01/12/2022
- 2** **Employing entity:** FUNDACIO PER A LA UNIVERSITAT OBERTA DE CATALUNYA
Professional category: Professor Col.laborador
Start-End date: 01/09/2008 - 30/06/2022 **Duration:** 13 years - 10 months
- 3** **Employing entity:** BOSTON UNIVERSITY SCHOOL OF MEDICINE **Type of entity:** University
Professional category: Assistant Professor
Start-End date: 01/06/2004 - 31/12/2009 **Duration:** 6 years
- 4** **Employing entity:** HARVARD MEDICAL SCHOOL-BIDMC **Type of entity:** University
Professional category: Research Postdoctoral Associate
Start-End date: 01/01/2004 - 31/12/2008 **Duration:** 5 years
- 5** **Employing entity:** HARVARD MEDICAL SCHOOL-BIDMC **Type of entity:** University
Professional category: Research Postdoctoral Fellow
Start-End date: 01/11/2000 - 31/10/2004 **Duration:** 5 years
- 6** **Employing entity:** BOSTON UNIVERSITY SCHOOL OF MEDICINE **Type of entity:** University
Professional category: Research Postdoctoral Fellow
Start-End date: 01/11/2002 - 31/05/2004 **Duration:** 3 years



Education

University education

1st and 2nd cycle studies and pre-Bologna degrees

- 1 University degree:** Higher degree
Name of qualification: Habilitation à diriger de Recherches
Degree awarding entity: Université Paris-Sud-11 **Type of entity:** University
Date of qualification: 21/12/2013
- 2 University degree:** Higher degree
Name of qualification: Postgraduate Program in Medical Education
Degree awarding entity: Harvard-Macy Institut for Medical Education Harvard Medical School & Harvard School of Education
Date of qualification: 30/06/2003
- 3 University degree:** Higher degree
Name of qualification: Master de Neurociències
Degree awarding entity: Universitat Autònoma de Barcelona **Type of entity:** University
Date of qualification: 30/06/1997
- 4 University degree:** Middle degree
Name of qualification: Diplomatura en Musica
Degree awarding entity: Conservatori Superior Municipal de Musica de Barcelona
Date of qualification: 30/06/1996
- 5 University degree:** Higher degree
Name of qualification: Licenciado en Medicina y Cirugía
Degree awarding entity: Universitat Autònoma de Barcelona **Type of entity:** University
Date of qualification: 30/06/1995

Doctorates

Doctorate programme: Doctorat de Neurociències
Degree awarding entity: Universitat Autònoma de Barcelona **Type of entity:** University
Date of degree: 02/12/1999



Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
Catalan	A1	A1	A1	A1	A1
Spanish	A1	A1	A1	A1	A1
English	A1	A1	A1	A2	A2
French	A1	A1	A1	A2	A2
German	B2	B2	B2	C1	C1

Teaching experience

Experience supervising doctoral thesis and/or final year projects

- 1 Project title:** Neuroanatomical correlates in chronic post stroke patients with hemianopia
Entity: Vrije Universite Amsterdam, Université de Picardie Amiens et Université Paris VI Pierre Marie Curie (Sorbonne Université) **Type of entity:** University
Student: Krishna Radhakrishnan
Date of reading: 01/08/2022
- 2 Project title:** Intentionality of Mind-Wandering as Reflected in Executive Control and Behavioral Variability: a TMS Study
Entity: École Normale Supérieure, Université Paris V, Université Paris VI Sorbonne **Type of entity:** University
Student: Victoria Schevchenko
Date of reading: 01/07/2022
- 3 Project title:** Stimulation transcrânienne par courant électrique alternatif (tACS) chez le patient atteint d'hémianopsie latérale homonyme à la phase chronique
Entity: Université Paris VI Pierre Marie Curie (Sorbonne Université) **Type of entity:** University
Student: Corentin Gobatto
Date of reading: 01/07/2022
- 4 Project title:** Étude du potentiel thérapeutique de la stimulation transcrâniale à courant direct dans le cadre du variant sémantique de l'aphasie primaire progressive dans l'association sémantique
Entity: Université Paris VI Pierre Marie Curie (Sorbonne Université) **Type of entity:** University
Student: Chaima Ennouri
Date of reading: 13/06/2022
- 5 Project title:** Exploratory analysis of EEG markers of mind-wandering
Entity: École Normale Supérieure, Université Paris V, Université Paris VI Sorbonne **Type of entity:** University
Student: Nicolas Bruno
Date of reading: 14/09/2021

- 6** **Project title:** Stimulation transcrânienne par courant électrique alternatif (tACS) chez le patient atteint d'hémianopsie latérale homonyme à la phase chronique
Entity: Université Paris VI Pierre Marie Curie (Sorbonne Université) **Type of entity:** University
Student: Veronique Barrault
Date of reading: 01/07/2021
- 7** **Project title:** Corrélats anatomiques et fonctionnels de la réponse clinique au traitement par Stimulation Magnétique Transcrânienne répétée (rTMS) chez des patients atteints de schizophrénie avec des hallucinations auditives résistantes
Entity: Université Paris VIII Saint Denis **Type of entity:** University
Student: Fanny Thomas
Date of reading: 05/10/2020
- 8** **Project title:** Effets de la Stimulation Transcrânienne à Courant Continu du lobe préfrontal sur la production langagière dans la Démence Fronto-Temporale.
Entity: Université Paris VI Pierre Marie Curie (Sorbonne Université) **Type of entity:** University
Student: Réda Belgaid
Date of reading: 01/07/2020
- 9** **Project title:** Potentiel thérapeutique de la stimulation transcrânienne par courant direct sur les atteintes langagières dans la Démence Sémantique
Entity: Université Paris VI Pierre Marie Curie (Sorbonne Université) **Type of entity:** University
Student: Florine Maerten
Date of reading: 01/07/2020
- 10** **Project title:** Predictive value of MRI-based biophysical models of cortical tDCS current distribution in the semantic variant of primary progressive aphasia
Entity: Université Paris VI Pierre Marie Curie (Sorbonne Université) **Type of entity:** University
Student: Michel Katchaturian
Date of reading: 01/07/2020
- 11** **Project title:** Language impairments in neurodegenerative diseases : function, dysfunction and modulation with transcranial stimulation
Entity: Institut du Cerveau et de la Moelle Epinière, Doctorat en Neurosciences, Université Paris VI Pierre Marie Curie (Sorbonne Université) **Type of entity:** University
Student: Maria Clara Sanches Pires
Date of reading: 13/12/2019
- 12** **Project title:** Frontal contributions to conscious visual perception through causal manipulation of brain rhythms
Entity: Université Paris VI Pierre Marie Curie (Sorbonne Université) **Type of entity:** University
Student: Chloe Stengel
Date of reading: 02/12/2019
- 13** **Project title:** Causal role of fronto-parietal synchrony at theta frequency on conscious access
Entity: École Normale Supérieure, Université Paris V, Université Paris VI Sorbonne **Type of entity:** University



Student: Basak Turker

Date of reading: 01/07/2018

- 14** **Project title:** Effets de la Stimulation Transcrânienne à Courant Continu du lobe préfrontal sur la production langagière dans la Démence Fronto-Temporale
Entity: Université Paris VI Pierre Marie Curie (Sorbonne Université) **Type of entity:** University
Student: Fanny Amzallag
Date of reading: 01/07/2018
- 15** **Project title:** Effets de la Stimulation Transcrânienne à Courant Continu du lobe préfrontal sur la production langagière dans l'aphasie Primaire Progressive logopenique
Entity: Université Paris VI Pierre Marie Curie (Sorbonne Université) **Type of entity:** University
Student: Angelina Bourbon
Date of reading: 01/07/2018
- 16** **Project title:** Causal characterization of functional connectivity through the spread of electrically induced oscillations in the epileptic human brain
Entity: University of Lisbon, Portugal & Paris Tech, Paris **Type of entity:** University
Student: Miguel Duarte
Date of reading: 01/07/2017
- 17** **Project title:** Effets de la Stimulation Transcrânienne à Courant Continu du lobe préfrontal sur la production langagière dans la Démence Fronto-Temporale
Entity: École Normale Supérieure, Université Paris V, Université Paris VI Sorbonne **Type of entity:** University
Student: Marguerite de Tanouarn
Date of reading: 01/07/2017
- 18** **Project title:** Contributions du cortex rostro-ventrale dorsolateral (RLPFC) droit gauche au raisonnement par analogie
Entity: Université Paris VI Pierre Marie Curie (Sorbonne Université) **Type of entity:** University
Student: Steepan Jayasiri
Date of reading: 01/09/2015
- 19** **Project title:** Non-invasive Manipulation of Fronto-Parietal Synchrony to Improve Conscious Visual Perception in Humans
Entity: Ecole Normale Supérieure, Université Paris V, Université Paris VI Sorbonne **Type of entity:** University
Student: Chloe Stengel
Date of reading: 13/07/2015
- 20** **Project title:** Influence de la connectivité anatomique sur la modulation de la perception visuelle induite par une activité frontale
Entity: Université Paris VI Pierre Marie Curie (Sorbonne Université) **Type of entity:** University
Student: Romain Quentin
Date of reading: 09/09/2014



- 21** **Project title:** Understanding dual task performance in humans: Electrophysiological correlates of interferences and costs between motor and working memory tasks
Entity: Universidad Católica Pontificia, Santiago de Chile **Type of entity:** University
Student: David Arriagada
Date of reading: 01/09/2014
- 22** **Project title:** Évaluation de l'efficacité de la stimulation transcrânienne en courant continu sur les troubles langagiers dans la Paralyse Supranucléaire Progressive (PSP)
Entity: Université Paris VI Pierre Marie Curie (Sorbonne Université) **Type of entity:** University
Student: : Oriane Frachia
Date of reading: 01/09/2014
- 23** **Project title:** Évaluation de l'efficacité de la stimulation transcrânienne par courant continue sur les troubles langagiers dans les APP et les PSP
Entity: Université Paris VI Pierre Marie Curie (Sorbonne Université) **Type of entity:** University
Student: Constance Lesoil
Date of reading: 01/09/2014
- 24** **Project title:** Évaluation de l'efficacité de la Stimulation Transcrânienne par Courant Continu sur les troubles langagiers dans les Aphasies Primaires Progressives (APP) Juliette Godard
Entity: Université Paris VI Pierre Marie Curie (Sorbonne Université) **Type of entity:** University
Student: Juliette Godard
Date of reading: 31/07/2014
- 25** **Project title:** Valuation of fronto-parietal and traccallosal white matter tracts in right hemisphere stroke patients affected of visuospatial neglect and treated with rTMS
Entity: Université Paris VI Pierre Marie Curie (Sorbonne Université) **Type of entity:** University
Student: Katrine Rojkova
Date of reading: 01/07/2014
- 26** **Project title:** Frontal and parietal contributions to visual perception in humans
Entity: Université Paris VI Pierre Marie Curie (Sorbonne Université)
Student: Lorena Chanes
Date of reading: 24/02/2014
- 27** **Project title:** Mapping the right and left Frontal Eye Fields anatomical location in humans: A comparison between Correlational and Causal Approaches
Entity: Master National de Neurociences. Université Grenoble-Lyon-Tolouse **Type of entity:** University
Student: Manuel Andres Mitsumasu Heredia
Date of reading: 01/09/2012
- 28** **Project title:** Anatomical and functional Impact of critical brain areas on network activity and basic visual Function
Entity: Boston University School of Medicine **Type of entity:** University
Student: Seth Elkin-Frankston
Date of reading: 09/07/2012

- 29** **Project title:** Safety aspects of chronic repetitive transcranial magnetic stimulation: effect on neuronal and glial structure
Entity: Graduate Program in Medical Science. Boston University School of Medicine **Type of entity:** University
Student: Jeremiah Paskus
Date of reading: 01/06/2012
- 30** **Project title:** Long-latency reflex motor activity patterns evoked by proprioceptive input in humans: A direct proof for the existence of motor primitives in humans?
Entity: Universidad Católica Pontificia, Santiago de Chile **Type of entity:** University
Student: David Arriagada
Date of reading: 31/05/2012
- 31** **Project title:** Graph theoretical analysis of visual system functional connectivity in normal and lesioned brains
Entity: Graduate Program in Medical Science. Boston University School of Medicine **Type of entity:** University
Student: Marie Helène Gagnon
Date of reading: 01/04/2012
- 32** **Project title:** The neural basis of behavioral recovery of chronic visuospatial neglect using repetitive Transcranial Magnetic Stimulation
Entity: Boston University School of Medicine **Type of entity:** University
Student: Linda Miriam Afifi
Date of reading: 06/04/2011
- 33** **Project title:** Recovering Localized Brain Damaged by tDCS
Entity: Graduate Master Program in Medical Science. Boston University School of Medicine **Type of entity:** University
Student: Chistopher de Simone
Date of reading: 01/04/2010
- 34** **Project title:** Reversal of lesion-induced visual neglect using active transcranial direct current stimulation
Entity: Graduate Master Program in Medical Science. Boston University School of Medicine
Student: Greg Fenton
Date of reading: 01/04/2010
- 35** **Project title:** Learning of visuo-spatial in felines: The role of training modalities.
Entity: Graduate Master Program in Medical Science. Boston University School of Medicine **Type of entity:** University
Student: Sixto Medina
Date of reading: 01/09/2009
- 36** **Project title:** Manipulation of state dependency to achieve higher magnitude and more spatially selective effects for tDCS therapeutic effects in intact subjects and stroke patients
Entity: Université Paris 11 Sud
Student: Patricia Vargas
Date of reading: 01/09/2009
- 37** **Project title:** Rehabilitation procedures to address hemianopia and scotoma
Entity: Graduate Master Program in Medical Science. Boston University School of Medicine **Type of entity:** University
Student: Neil McCormack

Date of reading: 01/05/2009

Scientific and technological experience

Scientific or technological activities

R&D projects funded through competitive calls of public or private entities

- 1** **Name of the project:** Therapeutic value of transcranial stimulation with direct current on language disorders in semantic dementia (STIM SD)
Entity where project took place: Institut du Cerveau **Type of entity:** University Research Institute et la Moelle
City of entity: Paris, Île de France, France
Name principal investigator (PI, Co-PI....): Antoni Valero-Cabre; Marc Teichmann
N° of researchers: 2
Start-End date: 01/06/2019 - 01/06/2024
Total amount: 375.000 €
- 2** **Name of the project:** Investigation of the therapeutic value of transcranial stimulation with direct current on language disorders in semantic dementia (STIM SD)
Entity where project took place: Institut du cerveau **Type of entity:** University Research Institute et la Moelle
City of entity: Paris, Île de France, France
Name principal investigator (PI, Co-PI....): Antoni Valero-Cabré Valero-Cabré; Marc Teichmann; Richard Levy
N° of researchers: 3
Start-End date: 01/01/2019 - 31/12/2023
Total amount: 350.000 €
- 3** **Name of the project:** Stimulation transcrânienne par courant électrique alternatif (tACS) chez le patient atteint d'hémianopsie latérale homonyme à la phase chronique (HEMIANOTACS),
Entity where project took place: Institut du Cerveau **Type of entity:** University Research Institute et la Moelle
City of entity: Paris, Île de France, France
Name principal investigator (PI, Co-PI....): Antoni Valero-Cabré; Alexia Potet
N° of researchers: 2
Start-End date: 01/02/2018 - 31/12/2023
Total amount: 120.000 €
- 4** **Name of the project:** Frequency specific entrainment of cerebellar circuits to explore and boost motor performance by transcranial Magnetic stimulation (FORTE)
Entity where project took place: Institut du Cerveau et la Moelle
City of entity: Paris, Île de France, France
Name principal investigator (PI, Co-PI....): Antoni Valero-Cabré; Cecile Galea
N° of researchers: 2
Start-End date: 01/05/2021 - 30/11/2023
Total amount: 150.000 €

- 5** **Name of the project:** Causal connectomics subtending oscillatory spread and information flow in the human brain (CAUSALTOMICS)
Entity where project took place: Institut du Cerveau **Type of entity:** University Research Institute et la Moelle
City of entity: Paris, Île de France, France
Name principal investigator (PI, Co-PI....): Antoni Valero-Cabre; Alessandro Principe; Ioana Mindruta
N° of researchers: 3
Start-End date: 01/04/2018 - 01/06/2021
Total amount: 466.000 €
- 6** **Name of the project:** Non-invasive manipulation of brain synchrony to boost brain function and rehabilitate faulty visuo-spatial cognition in humans (OSCILLOSCOPUS)
Entity where project took place: Institut du Cerveau **Type of entity:** University Research Institute et la Moelle
City of entity: Paris, Île de France, France
Name principal investigator (PI, Co-PI....): Antoni Valero-Cabre; Olivier David
N° of researchers: 2
Start-End date: 01/03/2016 - 01/03/2020
Total amount: 433.000 €
- 7** **Name of the project:** Neuronal and network modulation by low-intensity magnetic stimulation, Investigador principal (WP 3)
Entity where project took place: Institut du Cerveau et la Moelle
City of entity: Paris, Île de France, France
Name principal investigator (PI, Co-PI....): Antoni Valero Cabré; Stephane Charpier; Rachel Sherrard
N° of researchers: 3
Start-End date: 01/01/2020 - 01/01/2020
Total amount: 90.000 €
- 8** **Name of the project:** Non-invasive manipulation of brain synchrony to enhance brain function and rehabilitate faulty cognition in humans: A proof of concept
Entity where project took place: Institut du Cerveau **Type of entity:** University Research Institute et la Moelle
City of entity: Paris, Île de France, France
Name principal investigator (PI, Co-PI....): Antoni Valero-Cabre
N° of researchers: 1
Start-End date: 01/01/2015 - 31/01/2019
Total amount: 130.000 €
- 9** **Name of the project:** Can oscillation entrainment and attention improve visual perception? NIH-NEI R21
Entity where project took place: New York **Type of entity:** University
University, Center for Neural Science
City of entity: New York, United States of America
Name principal investigator (PI, Co-PI....): Antoni Valero-Cabré; Marisa Carrasco
N° of researchers: 2
Start-End date: 01/01/2017 - 01/01/2019
Total amount: 435.000 €
- 10** **Name of the project:** Developing a non-invasive neurostimulation helmet to manipulate brain oscillatory activity and improve visual perception CARNOT Maturation
Entity where project took place: Institut du Cerveau **Type of entity:** University Research Institute et la Moelle

City of entity: Paris, Île de France, France
Name principal investigator (PI, Co-PI....): Antoni Valero-Cabre
N° of researchers: 1
Start-End date: 01/01/2015 - 31/01/2018
Total amount: 30.000 €

11 Name of the project: Non-invasive neurostimulation technologies to boost visual perception in intact subjects and cerebrally damaged patients (BEYONDDVIS)
Entity where project took place: Institut du Cerveau **Type of entity:** University Research Institute et la Moelle
City of entity: Paris, Île de France, France
Name principal investigator (PI, Co-PI....): Antoni Valero-Cabre; Alessandro Principe; Ioana Mindruta; Claus Hilgetag
N° of researchers: 3
Start-End date: 01/04/2010 - 01/06/2015
Total amount: 796.000 €

12 Name of the project: Exploring the impact and time frequency signature of rhythmic patterns of Transcranial Magnetic Stimulation (TMS) on network activity by Magneto-Encephalography (MEG) IFR
Entity where project took place: Institut du Cerveau **Type of entity:** University Research Institute et la Moelle
City of entity: Paris, Île de France, France
Name principal investigator (PI, Co-PI....): Antoni Valero-Cabre
N° of researchers: 1
Start-End date: 01/01/2014 - 31/01/2015
Total amount: 13.000 €

13 Name of the project: Using Repetitive Transcranial Magnetic Stimulation (rTMS) in the rehabilitation of chronic spatial neglect after stroke: A double blind clinical trial (NEGLECT) PHRC-AOR 08060
Entity where project took place: APHP Pitiié **Type of entity:** Administrative Body of the National Salpetrière Paris Health System
City of entity: Paris, Île de France, France
Name principal investigator (PI, Co-PI....): Antoni Valero-Cabré Valero-Cabré
N° of researchers: 1
Start-End date: 01/01/2009 - 01/03/2012
Total amount: 325.000 €

14 Name of the project: Recovering localized brain damage by tDCS, Investigador Principal, NINDS-NIH USA
Entity where project took place: Boston University **Type of entity:** University School of Medicine
City of entity: Boston, United States of America
Name principal investigator (PI, Co-PI....): Antoni Valero-Cabré Valero-Cabré
N° of researchers: 1
Start-End date: 01/07/2009 - 01/07/2011
Total amount: 250.000 €

15 Name of the project: Neural correlates of the manipulation of visuospatial processing by Transcranial Direct Current Stimulation, Spivak Foundation
Entity where project took place: Boston University **Type of entity:** University School of Medicine
City of entity: Boston, United States of America
Name principal investigator (PI, Co-PI....): Antoni Valero-Cabré Valero-Cabré

Nº of researchers: 1
Start-End date: 01/11/2008 - 01/11/2009
Total amount: 40.000 €

- 16 Name of the project:** Rehabilitation of visual neglect
Entity where project took place: Boston University **Type of entity:** University
School of Medicine
City of entity: Boston, United States of America
Name principal investigator (PI, Co-PI...): Antoni Valero-Cabre; Jarrett Rushmore; Mark Moss; Betram Payne
Nº of researchers: 4
Start-End date: 01/07/2003 - 30/06/2008
Total amount: 2.700.000 €

Scientific and technological activities

Scientific production

Publications, scientific and technical documents

- 1** Delphine Tanguy; Armelle Rametti-Lacroux; Arabella Bouzigues; Dario Saracino; Isabelle Le Ber; Val{e}rie Godefroy; Xavier Morandi; Pierre Jannin; Richard Levy; B{e}n{e}dicte Batrancourt; Raffaella Migliaccio; {ECOCAPTURE Study Group}. Behavioural disinhibition in frontotemporal dementia investigated within an ecological framework. Cortex. Elsevier BV, 12/2022.
Type of production: Scientific paper **Format:** Journal
- 2** Fanny Thomas; C{e}cile Gallea; Virginie Moulier; Noomane Bouaziz; Antoni Valero-Cabr{e}; Dominique Januel. Local alterations of left arcuate fasciculus and transcallosal white matter microstructure in schizophrenia patients with medication-resistant auditory verbal hallucinations: A pilot study. Neuroscience. 507, pp. 1 - 13. Elsevier BV, 12/2022.
Type of production: Scientific paper **Format:** Journal
- 3** C Stengel; C Sanches; M N Toba; A Valero-Cabr{e}. Things you wanted to know (but might have been afraid to ask) about how and why to explore and modulate brain plasticity with non-invasive neurostimulation technologies. Rev. Neurol. (Paris). 178 - 8, pp. 826 - 844. Elsevier BV, 10/2022.
Type of production: Scientific paper **Format:** Journal
- 4** Manon Boyer; Paul Baudin; Chlo{e} Stengel; Antoni Valero-Cabr{e}; Ann M Lohof; St{e}phane Charpier; Rachel M Sherrard; S{e}verine Mahon. In vivo low-intensity magnetic pulses durably alter neocortical neuron excitability and spontaneous activity. J. Physiol.600 - 17, pp. 4019 - 4037. Wiley, 09/2022.
Type of production: Scientific paper **Format:** Journal
- 5** Xavier Corominas-Teruel; Rosa Mar{a} San Segundo Mozo; Montserrat Fibla Sim{o}; Maria Teresa Colomina Fosch; Antoni Valero-Cabr{e}. Transcranial direct current stimulation for gait recovery following stroke: A systematic review of current literature and beyond. Front. Neurol.13, pp. 953939 - 953939. Frontiers Media SA, 09/2022.
Type of production: Scientific paper **Format:** Journal

- 6** Clara Sanches; Fanny Amzallag; Bruno Dubois; Richard L{\e}vy; Dennis Q Truong; Marom Bikson; Marc Teichmann; Antoni Valero-Cabr{\e}. Evaluation of the effect of transcranial direct current stimulation on language impairments in the behavioural variant of frontotemporal dementia. *Brain Commun.* 4 - 2, pp. fcac050 - fcac050. Oxford University Press (OUP), 03/2022.
Type of production: Scientific paper **Format:** Journal
- 7** Anthony Boyer; Chlo{\e} Stengel; Fran{\c}ois Bonnetblanc; M{\e}lissa Dali; Hugues Duffau; Fran{\c}ois Rheault; Maxime Descoteaux; David Guiraud; Antoni Valero-Cabre; Emmanuel Mandonnet. Patterns of axono-cortical evoked potentials: an electrophysiological signature unique to each white matter functional site?. *Acta Neurochir. (Wien)*. 163 - 11, pp. 3121 - 3130. Springer Science and Business Media LLC, 11/2021.
Type of production: Scientific paper **Format:** Journal
- 8** Yong-Jun Lin; Lavanya Shukla; Laura Dugu{\e}; Antoni Valero-Cabr{\e}; Marisa Carrasco. Transcranial magnetic stimulation entrains alpha oscillatory activity in occipital cortex. *Sci. Rep.* 11 - 1, pp. 18562 - 18562. Springer Science and Business Media LLC, 09/2021.
Type of production: Scientific paper **Format:** Journal
- 9** R Maatoug; K Bihan; P Duriez; P Podevin; L Silveira-Reis-Brito; A Benyamina; A Valero-Cabr{\e}; B Millet. Non-invasive and invasive brain stimulation in alcohol use disorders: A critical review of selected human evidence and methodological considerations to guide future research. *Compr. Psychiatry*. 109 - 152257, pp. 152257 - 152257. Elsevier BV, 08/2021.
Type of production: Scientific paper **Format:** Journal
- 10** Avirath Sundaresan; Brian Pechina; Sean Cheong; Victoria Grace; Antoni Valero-Cabr{\e}; Adrien Martel. Evaluating deep learning {EEG-based} mental stress classification in adolescents with autism for breathing entrainment {BCI}. *Brain Inform.* 8 - 1, pp. 13 - 13. Springer Science and Business Media LLC, 07/2021.
Type of production: Scientific paper **Format:** Journal
- 11** Demian Wasserman; Antoni Valero-Cabr{\e}; M{\e}lissa Dali; Chlo{\e} Stengel; Anthony Boyer; Fran{\c}ois Rheault; Fran{\c}ois Bonnetblanc; Emmanuel Mandonnet. Axono-cortical evoked potentials as a new method of {IONM} for preserving the motor control network: a first study in three cases. *Acta Neurochir. (Wien)*. 163 - 4, pp. 919 - 935. Springer Science and Business Media LLC, 04/2021.
Type of production: Scientific paper **Format:** Journal
- 12** Chlo{\e} Stengel; Marine Vernet; Juli{\`a} L Amengual; Antoni Valero-Cabr{\e}. Causal modulation of right hemisphere fronto-parietal phase synchrony with Transcranial Magnetic Stimulation during a conscious visual detection task. *Sci. Rep.* 11 - 1, pp. 3807 - 3807. Springer Science and Business Media LLC, 02/2021.
Type of production: Scientific paper **Format:** Journal
- 13** Emmanuel Mandonnet; Marion Vincent; Antoni Valero-Cabr{\e}; Valentine Facque; Marion Barberis; Fran{\c}ois Bonnetblanc; Fran{\c}ois Rheault; Emmanuelle Volle; Maxime Descoteaux; Daniel S Margulies. Network-level causal analysis of set-shifting during trail making test part B: A multimodal analysis of a glioma surgery case. *Cortex*. 132, pp. 238 - 249. Elsevier BV, 11/2020.
Type of production: Scientific paper **Format:** Journal
- 14** Redwan Maatoug; Antoni Valero-Cabr{\e}; Philibert Duriez; Bertrand Saudreau; Sara Fern{\`a}ndez-Vidal; Carine Karachi; Bruno Millet. Sustained recovery in a treatment-refractory obsessive-compulsive disorder patient after deep brain stimulation battery failure. *Front. Psychiatry*. 11, pp. 572059 - 572059. Frontiers Media SA, 11/2020.
Type of production: Scientific paper **Format:** Journal
- 15** R Maatoug; A Ekmen; A Valero-Cabre; B Millet. Stimulation therapeutic approaches to better understand Obsessive Compulsive Disorder: The issue of 'where' to treat. *Encephale*. 46 - 5, pp. 399 - 403. Elsevier BV, 10/2020.
Type of production: Scientific paper **Format:** Journal



- 16** Monica N Toba; Melissa Zavaglia; Caroline Malherbe; Tristan Moreau; Federica Rastelli; Anna Kaglik; Romain Valabrègue; Pascale Pradat-Diehl; Claus C Hilgetag; Antoni Valero-Cabré. Game theoretical mapping of white matter contributions to visuospatial attention in stroke patients with hemineglect. *Hum. Brain Mapp.* 41 - 11, pp. 2926 - 2950. Wiley, 08/2020.
Type of production: Scientific paper **Format:** Journal
- 17** Emmanuel Mandonnet; Daniel Margulies; Chloe Stengel; Melissa Dali; François Rheault; Monica N Toba; François Bonnetblanc; Antoni Valero-Cabré. "I do not feel my hand where I see it": causal mapping of visuo-proprioceptive integration network in a surgical glioma patient. *Acta Neurochir. (Wien)*. 162 - 8, pp. 1949 - 1955. Springer Science and Business Media LLC, 08/2020.
Type of production: Scientific paper **Format:** Journal
- 18** Monica N Toba; Caroline Malherbe; Olivier Godefroy; R Jarrett Rushmore; Melissa Zavaglia; Redwan Maatoug; Emmanuel Mandonnet; Antoni Valero-Cabré; Claus C Hilgetag. Reply: Inhibition between human brain areas or methodological artefact?. *Brain*. 143 - 5, pp. e39 - e39. Oxford University Press (OUP), 05/2020.
Type of production: Scientific paper **Format:** Journal
- 19** Monica N Toba; Olivier Godefroy; R Jarrett Rushmore; Melissa Zavaglia; Redwan Maatoug; Claus C Hilgetag; Antoni Valero-Cabré. Revisiting 'brain modes' in a new computational era: approaches for the characterization of brain-behavioural associations. *Brain*. 143 - 4, pp. 1088 - 1098. Oxford University Press (OUP), 04/2020.
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- 20** Seth Elkin-Frankston; Richard J Rushmore; Antoni Valero-Cabré. Low frequency transcranial magnetic stimulation of right posterior parietal cortex reduces reaction time to perithreshold low spatial frequency visual stimuli. *Sci. Rep.* 10 - 1, pp. 3162 - 3162. Springer Science and Business Media LLC, 02/2020.
Type of production: Scientific paper **Format:** Journal
- 21** Antoni Valero-Cabré; Monica N Toba; Claus C Hilgetag; R Jarrett Rushmore. Perturbation-driven paradoxical facilitation of visuo-spatial function: Revisiting the 'Sprague effect'. *Cortex*. 122, pp. 10 - 39. Elsevier BV, 01/2020.
Type of production: Scientific paper **Format:** Journal
- 22** Clara Sanches; Chloe Stengel; Juliette Godard; Justine Mertz; Marc Teichmann; Raffaella Migliaccio; Antoni Valero-Cabré. Past, present, and future of non-invasive brain stimulation approaches to treat cognitive impairment in neurodegenerative diseases: Time for a comprehensive critical review. *Front. Aging Neurosci.* 12, pp. 578339 - 578339. Frontiers Media SA, 2020.
Type of production: Scientific paper **Format:** Journal
- 23** Clara Sanches; Richard Levy; Sarah Benisty; Lisette Volpe-Gillot; Marie-Odile Habert; Aurelie Kas; Sebastian Ströer; Nadya Pyatigorskaya; Anna Kaglik; Angelina Bourbon; Bruno Dubois; Raffaella Migliaccio; Antoni Valero-Cabré; Marc Teichmann. Testing the therapeutic effects of transcranial direct current stimulation (tDCS) in semantic dementia: a double blind, sham controlled, randomized clinical trial. *Trials*. 20 - 1, pp. 632 - 632. Springer Science and Business Media LLC, 11/2019.
Type of production: Scientific paper **Format:** Journal
- 24** Marine Vernet; Chloe Stengel; Romain Quentin; Julia L Amengual; Antoni Valero-Cabré. Entrainment of local synchrony reveals a causal role for high-beta right frontal oscillations in human visual consciousness. *Sci. Rep.* 9 - 1, pp. 14510 - 14510. Springer Science and Business Media LLC, 10/2019.
Type of production: Scientific paper **Format:** Journal
- 25** Antoni Valero-Cabré; Clara Sanches; Juliette Godard; Oriane Fracchia; Bruno Dubois; Richard Levy; Dennis Q Truong; Marom Bikson; Marc Teichmann. Language boosting by transcranial stimulation in progressive supranuclear palsy. *Neurology*. 93 - 6, pp. e537 - e547. Ovid Technologies (Wolters Kluwer Health), 08/2019.

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Format: Journal

- 26** Fanny Thomas; Noomane Bouaziz; Cécile Gallea; Palmyre Schenin-King Andrianisaina; Florence Durand; Omblin Bolloré; René Benadhira; Clémence Isaac; Sonia Braha-Zeitoun; Virginie Moulier; Antoni Valero-Cabré; Dominique Januel. Structural and functional brain biomarkers of clinical response to rTMS of medication-resistant auditory hallucinations in schizophrenia patients: study protocol for a randomized sham-controlled double-blind clinical trial. *Trials*. 20 - 1, pp. 229 - 229. Springer Science and Business Media LLC, 04/2019.

Type of production: Scientific paper

Format: Journal

- 27** Antoni Valero-Cabré; Julià L Amengual; Chloé Stengel; Alvaro Pascual-Leone; Olivier A Coubar. Corrigendum to "Transcranial magnetic stimulation in basic and clinical neuroscience: A comprehensive review of fundamental principles and novel insights" [*Neurosci. Biobehav. Rev.* 83 (2017) 381-404]. *Neurosci. Biobehav. Rev.* 96, pp. 414 - 414. Elsevier BV, 01/2019.

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Format: Journal

- 28** Zafer İncan; Aaron Schurger; Marine Vernet; Jacobo D Sitt; Antoni Valero-Cabré. Pre-stimulus theta power is correlated with variation of motor evoked potential latency: a single-pulse TMS study. *Exp. Brain Res.* 236 - 11, pp. 3003 - 3014. Springer Science and Business Media LLC, 11/2018.

Type of production: Scientific paper

Format: Journal

- 29** Deniz Doruk; Lorena Chanes; Alejandra Malavera; Lotfi B Merabet; Antoni Valero-Cabré; Felipe Fregni. Cross-modal cueing effects of visuospatial attention on conscious somatosensory perception. *Heliyon*. 4 - 4, pp. e00595 - e00595. 04/2018.

Type of production: Scientific paper

Format: Journal

- 30** Antoni Valero-Cabré; Julià L Amengual; Chloé Stengel; Alvaro Pascual-Leone; Olivier A Coubar. Transcranial magnetic stimulation in basic and clinical neuroscience: A comprehensive review of fundamental principles and novel insights. *Neurosci. Biobehav. Rev.* 83, pp. 381 - 404. 12/2017.

Type of production: Scientific paper

Format: Journal

- 31** Fanny Thomas; Noomane Bouaziz; Julià L Amengual; Palmyre Schenin-King Andrianisaina; Christian Gaudeau-Bosma; Virginie Moulier; Antoni Valero-Cabré; Dominique Januel. Unexpected improvement of hand motor function with a left temporoparietal low-frequency repetitive transcranial magnetic stimulation regime suppressing auditory hallucinations in a brainstem chronic stroke patient. *Front. Psychiatry*. 8, pp. 262 - 262. 11/2017.

Type of production: Scientific paper

Format: Journal

- 32** Raquel Viejo-Sobera; Diego Redolar-Ripoll; Mercè Boixadós; Marc Palaus; Antoni Valero-Cabré; Elena M Marron. Impact of prefrontal theta burst stimulation on clinical neuropsychological tasks. *Front. Neurosci.* 11, pp. 462 - 462. Frontiers Media SA, 08/2017.

Type of production: Scientific paper

Format: Journal

- 33** Monica N Toba; Melissa Zavaglia; Federica Rastelli; Romain Valabregue; Pascale Pradat-Diehl; Antoni Valero-Cabré; Claus C Hilgetag. Game theoretical mapping of causal interactions underlying visuo-spatial attention in the human brain based on stroke lesions. *Hum. Brain Mapp.* 38 - 7, pp. 3454 - 3471. Wiley, 07/2017.

Type of production: Scientific paper

Format: Journal

- 34** Guilhem Carle; Mehdi Touat; Nicolas Bruno; Damien Galanaud; Charles-Siegfried Peretti; Antoni Valero-Cabré; Richard Levy; Carole Azuar. Acute frontal lobe dysfunction following prefrontal low-frequency repetitive transcranial magnetic stimulation in a patient with treatment-resistant depression. *Front. Psychiatry*. 8, pp. 96 - 96. Frontiers Media SA, 05/2017.

Type of production: Scientific paper

Format: Journal

- 35** Gregor Thut; Til Ole Bergmann; Flavio Fröhlich; Surjo R Soekadar; John-Stuart Brittain; Antoni Valero-Cabré; Alexander T Sack; Carlo Miniussi; Andrea Antal; Hartwig Roman Siebner; Ulf Ziemann; Christoph S Herrmann. Guiding transcranial brain stimulation by {EEG/MEG} to interact with ongoing brain activity and associated functions: A position paper. Clin. Neurophysiol.128 - 5, pp. 843 - 857. 05/2017.
Type of production: Scientific paper **Format:** Journal
- 36** Julià L Amengual; Marine Vernet; Claude Adam; Antoni Valero-Cabré. Local entrainment of oscillatory activity induced by direct brain stimulation in humans. Sci. Rep.7, pp. 41908 - 41908. 03/2017.
Type of production: Scientific paper **Format:** Journal
- 37** F Thomas; V Moulier; A Valero-Cabré; D Januel. Erratum to "Brain connectivity and auditory hallucinations: In search of novel noninvasive brain stimulation therapeutic approaches for schizophrenia" [Rev. Neurol. 159 (11) (2016)]. Rev. Neurol. (Paris). 173 - 1-2, pp. 79 - 79. Elsevier BV, 01/2017.
Type of production: Scientific paper **Format:** Journal
- 38** F Thomas; V Moulier; A Valero-Cabré; D Januel. Brain connectivity and auditory hallucinations: In search of novel noninvasive brain stimulation therapeutic approaches for schizophrenia. Rev. Neurol. (Paris). 172 - 11, pp. 653 - 679. Elsevier BV, 11/2016.
Type of production: Scientific paper **Format:** Journal
- 39** Marc Teichmann; Constance Lesoil; Juliette Godard; Marine Vernet; Anne Bertrand; Richard Levy; Bruno Dubois; Laurie Lemoine; Dennis Q Truong; Marom Bikson; Aurélie Kas; Antoni Valero-Cabré. Direct current stimulation over the anterior temporal areas boosts semantic processing in primary progressive aphasia. Ann. Neurol.80 - 5, pp. 693 - 707. Wiley, 11/2016.
Type of production: Scientific paper **Format:** Journal
- 40** Anthony T O'Brien; Rivadavio Amorim; R Jarrett Rushmore; Uri Eden; Linda Afifi; Laura Dipietro; Timothy Wagner; Antoni Valero-Cabré. Motor cortex neurostimulation technologies for chronic post-stroke pain: Implications of tissue damage on stimulation currents. Front. Hum. Neurosci.10, pp. 545 - 545. Frontiers Media SA, 11/2016.
Type of production: Scientific paper **Format:** Journal
- 41** Romain Quentin; Seth Elkin Frankston; Marine Vernet; Monica N Toba; Paolo Bartolomeo; Lorena Chanes; Antoni Valero-Cabré. Visual contrast sensitivity improvement by right frontal high-beta activity is mediated by contrast gain mechanisms and influenced by fronto-parietal white matter microstructure. Cereb. Cortex. 26 - 6, pp. 2381 - 2390. Oxford University Press (OUP), 06/2016.
Type of production: Scientific paper **Format:** Journal
- 42** D Redolar-Ripoll; R Viejo-Sobera; M Palaus; A Valero-Cabré; E M Marrón. Local pain during transcranial magnetic stimulation induced by ferromagnetic pigments in commonly used cosmetics. Clin. Neurophysiol.126 - 11, pp. 2243 - 2245. Elsevier BV, 11/2015.
Type of production: Scientific paper **Format:** Journal
- 43** Lorena Chanes; Romain Quentin; Marine Vernet; Antoni Valero-Cabré. Arrhythmic activity in the left frontal eye field facilitates conscious visual perception in humans. Cortex. 71, pp. 240 - 247. Elsevier BV, 10/2015.
Type of production: Scientific paper **Format:** Journal
- 44** Romain Quentin; Lorena Chanes; Marine Vernet; Antoni Valero-Cabré. Fronto-parietal anatomical connections influence the modulation of conscious visual perception by high-beta frontal oscillatory activity. Cereb. Cortex. 25 - 8, pp. 2095 - 2101. Oxford University Press (OUP), 08/2015.
Type of production: Scientific paper **Format:** Journal

- 45** Marine Vernet; Romain Quentin; Lorena Chanes; Andres Mitsumasu; Antoni Valero-Cabré. Frontal eye field, where art thou? Anatomy, function, and non-invasive manipulation of frontal regions involved in eye movements and associated cognitive operations. *Front. Integr. Neurosci.*8, pp. 66 - 66. Frontiers Media SA, 08/2014.
Type of production: Scientific paper **Format:** Journal
- 46** Peter J Fried; 3rd Richard J Rushmore; Mark B Moss; Antoni Valero-Cabré; Alvaro Pascual-Leone. Causal evidence supporting functional dissociation of verbal and spatial working memory in the human dorsolateral prefrontal cortex. *Eur. J. Neurosci.*39 - 11, pp. 1973 - 1981. Wiley, 06/2014.
Type of production: Scientific paper **Format:** Journal
- 47** Ana B Chica; Antoni Valero-Cabré; Pedro M Paz-Alonso; Paolo Bartolomeo. Causal contributions of the left frontal eye field to conscious perception. *Cereb. Cortex.* 24 - 3, pp. 745 - 753. Oxford University Press (OUP), 03/2014.
Type of production: Scientific paper **Format:** Journal
- 48** Tim Wagner; Uri Eden; Jarrett Rushmore; Christopher J Russo; Laura Dipietro; Felipe Fregni; Stephen Simon; Stephen Rotman; Naomi B Pitskel; Ciro Ramos-Estebanez; Alvaro Pascual-Leone; Alan J Grodzinsky; Markus Zahn; Antoni Valero-Cabré. Impact of brain tissue filtering on neurostimulation fields: a modeling study. *Neuroimage.* 85 Pt 3, pp. 1048 - 1057. Elsevier BV, 01/2014.
Type of production: Scientific paper **Format:** Journal
- 49** R J Rushmore; C DeSimone; A Valero-Cabré. Multiple sessions of transcranial direct current stimulation to the intact hemisphere improves visual function after unilateral ablation of visual cortex. *Eur. J. Neurosci.*38 - 12, pp. 3799 - 3807. Wiley, 12/2013.
Type of production: Scientific paper **Format:** Journal
- 50** Romain Quentin; Lorena Chanes; Raffaella Migliaccio; Romain Valabregue; Antoni Valero-Cabré. Fronto-tectal white matter connectivity mediates facilitatory effects of non-invasive neurostimulation on visual detection. *Neuroimage.* 82, pp. 344 - 354. Elsevier BV, 11/2013.
Type of production: Scientific paper **Format:** Journal

R&D management and participation in scientific committees

Scientific, technical and/or assessment committees

- 1** **Committee title:** Final Panel Member Fondation Marato TV3, Grant call on Nervou System Diseases
Primary (UNESCO code): 320507 - Neurology; 321100 - Psychiatry; 321308 - Neurosurgery
Secondary (UNESCO code): 241002 - Human anatomy; 249000 - Neurosciences; 610401 - Cognitive functioning
Affiliation entity: Fondation la Marato de TV3 and AQUAS **Type of entity:** Foundation
City affiliation entity: Barcellona, Catalonia, Spain
Start-End date: 01/04/2017 - 30/09/2017
- 2** **Committee title:** Comite National du CNRS (section panel 26 Cerveau Cognition et Comportement
Primary (UNESCO code): 240800 - Ethology; 241111 - Neurophysiology; 249000 - Neurosciences; 610401 - Cognitive functioning; 610601 - Brain function; 610604 - Experimental analysis of behaviour
Secondary (UNESCO code): 320507 - Neurology; 321100 - Psychiatry; 321308 - Neurosurgery
Affiliation entity: Centre National de la Recherche Scientifique, CNRS **Type of entity:** Public Research Body
City affiliation entity: Paris, Île de France, France

Start date: 01/07/2021

- 3 Committee title:** Elected Member of the Institute Council UMR 7225 ICM
Primary (UNESCO code): 241002 - Human anatomy; 320507 - Neurology; 321100 - Psychiatry; 321308 - Neurosurgery; 330405 - Character recognition systems
Secondary (UNESCO code): 241002 - Human anatomy; 249000 - Neurosciences; 610401 - Cognitive functioning
Affiliation entity: Institut du Cereveau et la Moelle Epiniere, ICM
City affiliation entity: Paris, Île de France, France
Start date: 01/01/2017

R&D management

- 1 Name of the activity:** Expert Member of the ICM incubator for the company Actipulse
Type of management: Management of R&D&I actions and projects
Performed tasks: Scientific Vision, Scientific Expertise, Grant writing and Prospection
Entity: Actipulse
Start date: 01/09/2022
- 2 Name of the activity:** Member of the Scientific Comitee of the start up company Highland Instrumentds
Type of management: Management of R&D&I actions and projects
Performed tasks: Scientific Vision, Scientific Expertise, Grant writing and Prospection
Entity: Highland Instruments **Type of entity:** Business
Start date: 01/01/2005 **Duration:** 10 years

Other achievements

Stays in public or private R&D centres

- 1 Entity:** New York University Center for Neural Science **Type of entity:** University Research Institute
City of entity: New York City, United States of America
Start-End date: 01/01/2014 - 31/12/2014 **Duration:** 4 months
Goals of the stay: Guest
Provable tasks: Visual perception and attention
- 2 Entity:** Boston University School of Medicine **Type of entity:** University
Faculty, institute or centre: Department of Anatomy and Neuropbiology, Laboratory of Cerebral Dynamics
City of entity: Boston, United States of America
Start-End date: 01/06/2004 - 30/06/2009 **Duration:** 5 years
Goals of the stay: Contracted
Provable tasks: Research in cognitive neuroscience, behavioral neurology and non invaisve brain stimulation
- 3 Entity:** Harvard Medical School-Beth Israel Deaconess Med Center **Type of entity:** University
Faculty, institute or centre: Brain stimulation and Neuromidulation Lab
City of entity: Boston, United States of America
Start-End date: 01/11/2000 - 31/10/2006 **Duration:** 6 years



Goals of the stay: Post-doctoral

Provable tasks: Research in cognitive neuroscience, behavioral neurology and non invasive brain stimulation

- 4** **Entity:** Boston University School of Medicine **Type of entity:** University
Faculty, institute or centre: Department of Anatomy and Neurobiology, Laboratory of Cerebral Dynamics
City of entity: Boston, United States of America
Start-End date: 01/11/2002 - 31/10/2004 **Duration:** 8 years
Goals of the stay: Post-doctoral
Provable tasks: Research in cognitive neuroscience, behavioral neurology and non invasive brain stimulation
- 5** **Entity:** University of Cologne (Koeln Universitat)
Faculty, institute or centre: Institut fur Anatomie (Prof. Neiss)
City of entity: Cologne, Köln, Germany
Start-End date: 01/12/1998 - 01/06/1999 **Duration:** 6 months
Goals of the stay: Doctorate
Provable tasks: Neuroanatomy, Neural Regeneration, retrograde florescent tracers
- 6** **Entity:** Karls-Rüprecht Universität Heidelberg **Type of entity:** University
Faculty, institute or centre: Faculty of Medicine and Universiteit Kliniks
City of entity: Heidelberg, Germany
Start-End date: 01/09/1994 - 31/05/1995 **Duration:** 8 months
Goals of the stay: Doctorate
Provable tasks: Medical Rotations as Practisches Jahr Student