

Mental Health

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Research Technicians

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DESCRIPTION

The research group is dedicated to exploring innovative therapeutic approaches and unraveling the underlying causes of mental diseases to inform the development of novel treatment strategies ranging from psychotherapies to neuromodulation and new drugs. This involves leveraging acquired knowledge to guide the implementation of these cutting-edge treatments.

MAIN LINES OF RESEARCH

- Affective disorders -major depressive disorder, bipolar disorder, suicide and validation of scales- (Dr. Narcís Cardoner, Dr. Maria J Portella and Dr. Javier de Diego).
- Psychotic disorders -treatment-resistant schizophrenia, meta-cognitive treatment for patients with schizophrenia, DBS and digital Health- (Dr. Eva Grasa and Dr. Alexandra Roldán).
- Borderline personality disorder (Dr. Joaquim Soler).
- Eating Disorders (Dr. Mar Carceller-Sindreu and Dr. Cristina Carmona).
- Intensive Home Treatment (IHT) and other Community Interventions (Dr. Ana Martín-Blanco).

SCIENTIFIC CHALLENGES

- Foster research that reduces the healthcare, social and personal costs of mental illness by exploring areas such as epidemiology, etiopathogenesis, physiopathology, prevention and treatment.
- Foster research into mental health treatments including psychotherapy, psychopharmacology and neuromodulation.



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- Foster research to improve quality of life of patients with mental disorders.
 - Research into Affective Disorders
 - Identification and evaluation of new therapeutic targets in depression.
 - Neuroimaging studies in first psychotic episodes.
 - Biological and genetic markers in affective disorders.
 - Implementation of new therapeutic programmes, depression evaluation and social aspects of depression.
 - Research into Psychotic Disorders
 - Study of treatment resistance in schizophrenia.
 - Study of novel treatments (DBS, digital health) in schizophrenia and first episode of psychosis.
 - Neuroimaging studies in psychosis.
 - Study of environmental, biological and genetic factors in psychosis.
 - Efficacy and effectiveness studies of antipsychotic drugs.
 - Efficacy and effectiveness studies of meta-cognitive and emotion regulation therapies -for schizophrenia and first episode of psychoses.
 - Research into Personality Disorders
 - Clinical trials regarding the usefulness of mixed treatment in patients with borderline personality disorder and validation of diagnostic instruments.
 - Genetic-neuroimaging studies of borderline personality disorder (BPD).
 - Efficacy and effectiveness studies of psychotherapy for treating borderline personality disorder.
 - Research into Community intervention:
 - Community psychiatry.
 - Validation of patient and caregiver satisfaction scales and programs.

ACTIVE GRANTS

- Carceller Sindreu, Maria Del Mar. Avaluació de la seguretat i els efectes terapèutics del nou protocol de renutrició intensiva de l'hospital de dia de trastorns de la conducta alimentària. SCPSM 2022. Societat Catalana de Psiquiatria i Salut Mental (SCPiSM). Duration: 2022-2024. 3.000,00 €.
- Cardoner Alvarez, Narcis. Marcadores translacionales de estrés traumático. Translational biomarkers of traumatic stress (BioStress) NEURON-074. AC19/00088. Instituto de Salud Carlos III (ISCIII). Duration: 2020-2023. 99.825,00 €.
- Cardoner Alvarez, Narcis. Biomarcadores centrales y periféricos de respuesta antidepressiva: Estudio translacional entre pacientes con trastorno depresivo resistente al tratamiento y modelo de depresión en rata. PI18/00036. Instituto de Salud Carlos III (ISCIII). Duration: 2022-2023. 119.339,77 €.
- Cardoner Alvarez, Narcis. Predicción de la respuesta terapéutica en la depresión resistente al tratamiento a través de algoritmos de aprendizaje automático: mejora de la traslación de la neuroimagen a la atención clínica. PI21/01756. Instituto de Salud Carlos III (ISCIII). Duration: 2022-2024. 111.320,00 €.
- Cardoner Alvarez, Narcis. Unraveling the influence of gut microbiota and derived metabolites on major depression: A cross-sectional neuroimaging-metabolomics study based on knowledge transfer from irritable bowel syndrome (IBS) and a porcine model: MOODGUT. MARATO 202209-30. 182.500,00 €.
- Corripio Collado, Iluminada. Estimulación Cerebral Profunda: hacia una nueva intervención para la recuperación del paciente con esquizofrenia resistente al tratamiento. PI19/00242. Instituto de Salud Carlos III (ISCIII). Duration: 2020-2024. 102.850,00 €.
- De Diego Adeliño, Franciso Javier. Depression and its treatment: Role of miRNAs in the anterior cingulate cortex, as peripheral biomarkers, and their targeted modulation by nano-tools as a promising antidepressant therapy (DemiRNApy). MARATO 202207-32. Fundacio la Marato de TV3. Duration: 2023-2026. 72.837,50 €.



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- Nuñez Leanez, Christian. CD20/00142. Instituto de Salud Carlos III (ISCIII). Duration: 2021-2023. 80.598,00 €.
- Nuñez Leanez, Christian. Identificación de variantes genéticas de riesgo para el diagnóstico de los trastornos psicóticos y afectivos. MV22/00108. Instituto de Salud Carlos III (ISCIII). Duration: 2023-2023. 10.235,00 €.
- Portella Moll, Maria. Rehabilitación Integral cognitiva para DEpresión Mayor (RIDEM). Ensayo clínico multicéntrico, aleatorizado para investigar su eficacia. PI20/00270. Instituto de Salud Carlos III (ISCIII). Duration: 2021-2023. 116.765,00 €.
- Portella Moll, Maria. A Phase III, Randomized, Active Comparator-controlled, Clinical Trial to Study the Efficacy and Safety of the INtegral Cognitive REMediation program (INCREM) in patients with Depression. MARATO 202227-30. Fundacio la Marato de TV3. Duration: 2023-2026. 186.408,75 €.
- Soler Ribaudi, Joaquin. Ensayo clínico sobre los efectos de un entrenamiento de habilidades en síntomas de larga evolución en pacientes con Trastorno Límite de Personalidad. PI19/00087. Instituto de Salud Carlos III (ISCIII). Duration: 2020-2024. 25.168,00 €. Soler Ribaudi, Joaquin. Estudio piloto aleatorizado de terapia dialéctica conductual y EMDr. para el tratamiento del trastorno límite de la personalidad y el trauma . 2020 EMDr. EUROPE INVESTIGATOR GRANT. EMDr. Europe. Duration: 2020-2023. 17.000,00 €.
- Soler Ribaudi, Joaquin. Assaig controlat aleatoritzat per avaluar l'eficàcia de l'entrenament d'habilitats de la RO-DBT en pacients amb trastorns alimentaris i trets de l'espectre autista: un estudi de prova de concepte. MARATO 202231-10. Fundacio la Marato de TV3. Duration: 2023-2026. 148.306,25 €.
- Trujols Albet, Joan. Invariancia de medición de los instrumentos de uso habitual en investigación sobre prevención y tratamiento del trastorno de juego. SUBV/00014. Ministerio de Consumo. Duration: 2022-2024. 11.660,00 €.
- De Diego Adeliño, Franciso Javier. Ayudas para contratos Juan de la Cierva 2022. JDC2022-048445-I. Ministerio de Ciencia e Innovacion (MICINN). Duration: 2024-2025. 67.400,00 €.
- De Diego Adeliño, Franciso Javier. Biomarcadores multimodales de conectividad y señal neural para la personalización de la Estimulación Cerebral Profunda (DBS) en la depresión refractaria. PI23/00469. Instituto de Salud Carlos III (ISCIII). Duration: 2024-2026. 62.500,00 €.
- Portella Moll, Maria & Vicent Gil, Muriel. Proteínas Sinápticas e Inflamatorias como Marcadores de Disfunción Cognitiva en Pacientes con Depresión Mayor Tratados con el Programa de Remediación Cognitiva RIDEM. PI23/00468. Instituto de Salud Carlos III (ISCIII). Duration: 2024-2026. 115.000,00 €.
- Portella Moll, Maria. Grup de Recerca en Salut Mental Sant Pau. 2021 SGR 00832. Agència de Gestió d'Ajuts Universitaris i de Recerca (AGAUR). Duration: 2022-2025. 60.000,00 €.
- Portella Moll, Maria. Towards the next generation of excellent yoUng researchers on mental health by developing an intersectoral & transdisciplinary approach. 101126533 — TOUCH Project. HORIZON-MSCA-2022-COFUND-01 (UAB). Duration: 2024-2029. 84.600,00 €.

DOCTORAL THESES DEFENDED

- Deu Coll, Àngels. Característiques neuropsicològiques, psicopatològiques i tret de personalitat impulsiu en la conducta suïcida. 22/06/2023. Universitat Autònoma de Barcelona. Supervisors: Deus Yela, Joan; Pérez Solà, Víctor; De Diego Adeliño, Francisco Javier. <http://hdl.handle.net/10803/690755>.
- Porta Casteràs, Daniel. Alteracions neurals persistents en trastorn bipolar: Estudi de neuroimatge amb pacients eutímics. 13/12/2023. Universitat Autònoma de Barcelona. Supervisors: Cardoner Álvarez, Narcís; Cano Català, Marta; Subirà Coromina, Marta.

GRANTS AWARDED

- Cardoner Alvarez, Narcis. Avaluació d'intervencions de prevenció del dol per supervivents de suïcidi: IDOLS. Fundació La Caixa. Duration: 2023-2025. 32.336,70 €.

SCIENTIFIC PRODUCTION

- Aibar JA, Collado IC, Bejarano AR, Nevado RS, Bolanos IA, García J, Alonso A, Bello E, Schmidt CD, Hernandez FM, Teixido JM, Rodríguez RR. Long-term outcomes of deep brain stimulation



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- Alcantarilla L, López M, Betriu M, Torres A, García C, Solé E, Gelabert E, Roca A. Risk factors for relapse or recurrence in women with bipolar disorder and recurrent major depressive disorder in the perinatal period: a systematic review. *Archives of Womens Mental Health*. 2023; 26(6)DOI:10.1007/s00737-023-01370-9. PMID:37718376. IF:4,500 (Q2/4D).Document type: Review.
 - Aleman C, Puigdemont D, Martín A, Rodríguez R, Aibar JA, Vicent M, Álvarez E, Pérez V, Portella MJ, de Diego J. Response and Safety Outcomes in Treatment-Resistant Depression After Subcallosal Cingulate Gyrus Deep Brain Stimulation: Long-term Follow-up Study. *JOURNAL OF CLINICAL PSYCHIATRY*. 2023; 84(4):22m14622. DOI:10.4088/JCP.22M14622. PMID:37378475. IF:5,300 (Q1/2D).Document type: Article.
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