

# Annual Report 2018

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**pasqual  
maragall  
foundation**

10  
YEARS

**barcelonaβeta**  
BRAIN RESEARCH CENTER

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Date of publication May 2019

# Greeting

**“I want to help defeat Alzheimer’s. It is not easy or simple, but nowhere is it written that it is invincible.”** These were the words pronounced by the former mayor of Barcelona and former president of the Generalitat of Catalonia on October 20th, 2007, when he announced that he had been diagnosed with an Alzheimer’s onset. In that press conference he also claimed: “I want to help to advance, as far as I can, the research on this disease.” This public commitment materialized in April 2008 with the start-up of the Pasqual Maragall Foundation.

So in 2018 we have commemorated our 10th anniversary. And we have done it by taking stock and reflecting on the road traveled. It has been a decade of effort, growth and great moments. All this has given us more strength and experience, and has reaffirmed us in the conviction that, if we continue advancing, we will end this disease.

Achievements as the exceptional response, in 2012, of more than 6,000 people, who volunteered for our call to launch the Alfa Study. About 3,000 of those people represent now one of the largest study cohorts in Alzheimer’s prevention in the world. And thanks to their generosity and predisposition, for example, only in 2018, we have been able to carry out from our research center, the

Barcelona Brain Research Center (BBRC), more than 2,500 visits in the different research projects and clinical trials that we have underway. This involves more than 1,200 cognition sessions, more than 1,000 nursing sessions, more than 21,000 processed samples, more than 230 lumbar punctures and more than 1,000 MRI acquisitions.

To this intense activity we must add the start, this year, of the Clinical Research Unit in the Prevention of Dementia, a new pioneering research project that studies the risk, and its biological bases, of developing dementia during five years. We have also launched the Bio Alfa research project, focused on blood factors associated with aging and brain rejuvenation.

At an international level, we continue to consolidate alliances and collaborations, such as the EPAD European project, in which in 2018 the BBRC was the center with the most registered participants from all over Europe and AMYPAD, a European collaboration to improve the knowledge and diagnosis of Alzheimer’s disease using the PET imaging technique (positron emission tomography).

This excellent and tireless task is carried out by more than 50 researchers and professionals of the BBRC. And here is another reason for celebration,

since this center, with its cutting-edge infrastructures and a concentration of indisputable talent, also confirms, ten years later, the commitment achieved.

With wishes fulfilled and also dreams to be realized, we continue advancing thanks to the support of many people and entities that have accompanied us throughout this time in the materialization of that vision. We refer to entities such as “la Caixa”, the support of which has made it possible to transform what should be a study of 400 people in the current cohort of almost 3,000 people. And to all the entities of our Board of Patronage, which, with their financial contributions, make our project viable. And to the more than 24,000 members who make up the current social base that drives us every day to keep improving, since this project belongs to each one of them and a hope in which all, researchers, workers, volunteers, collaborators and entities, we believe.

We close the first decade of our founding history and open a new stage with an eye on the future, in which, we are sure, we will have many new achievements to celebrate together.

Thank you for these 10 years!

**Jordi Camí**  
Director

With wishes fulfilled and also dreams to be realized, we continue advancing thanks to the support of many people and entities that have accompanied us throughout this time in the materialization of that vision.

**Thank you for these 10 years!**



**Jordi Camí**

General Director of  
the Pasqual Maragall Foundation.



## The Pasqual Maragall Foundation

With the vision of achieving a future without Alzheimer's, the Pasqual Maragall Foundation promotes and develops the ultimate biomedical research to contribute to the decisive solutions to this disease.

The objective is to **prevent its onset**, determining what factors affect its start and development, designing interventions to act before it is too late and expanding knowledge about the cognitive functions affected in aging.

The Foundation also works to generate social awareness about the effects of this disease and **the importance of scientific research to find solutions.**

While these solutions do not arrive, the Foundation is also committed to **improve the quality of life of affected people and their caregivers.**

## The Barcelonaβeta Brain Research Center

The Barcelonaβeta Brain Research Center (BBRC) is a research center dedicated to the prevention of Alzheimer's disease and the study of cognitive functions affected in healthy and pathological aging. It was created in 2012 by the Pasqual Maragall Foundation, with the support of the Pompeu Fabra University.

The mission of the BBRC is to provide innovative solutions to decipher and prevent biological changes and cognitive dysfunction associated with neurodegenerative diseases. Its researchers carry out research projects of neuroimaging and primary and secondary Alzheimer's prevention, and actively participate in studies and international work groups focused on the prevention of the disease.

In 2018 the Catalan Association of Research Entities (ACER) unanimously agreed to the incorporation of the BBRC.

### TRANSPARENCY AND GOOD PRACTICE

The Pasqual Maragall Foundation and the Barcelonaβeta Brain Research Center have a **code of good practices in transparency and accountability and a code of good scientific practice.**

## ALZHEIMER'S TODAY

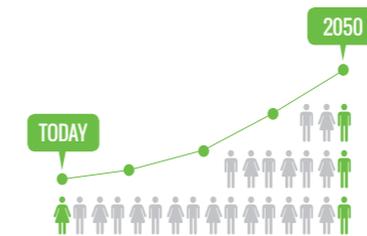
Every day thousands of new cases of dementia are diagnosed in the world, whose main cause is Alzheimer's. It is estimated that **in the world there are about 50 million cases of dementia<sup>1</sup>** and only in Spain about 800,000 cases.<sup>2</sup>



Every 3 seconds a new case of dementia is diagnosed in the world.



1 Of every 10 people over 65 years old has Alzheimer's.



If an effective cure is not found, by 2050 the number of cases will have tripled.

The Pasqual Maragall Foundation and the Barcelonaβeta Brain Research Center work tirelessly to find a solution. We are convinced that research is the only way out. And prevention is the key to stopping the advance of this epidemic:

IF WE WERE ABLE TO **DELAY ONLY FIVE YEARS** THE START OF THE ALZHEIMER'S, THE NUMBER OF SICK PEOPLE COULD BE **REDUCED TO ALMOST HALF<sup>3</sup>**



**ONE OF EVERY THREE CASES OF DEMENTIA COULD BE PREVENTED** MAKING A CHANGE OF LIFE HABITS<sup>4</sup>



- 1 Data of the World Health Organization (WHO).
- 2 Data of the World Alzheimer Report.
- 3 Data of the Alzheimer's Association Treatment Report: Changing the Trajectory of Alzheimer's Disease: How a Treatment by 2025 Saves Lives and Dollars.
- 4 Norton et al. "Potential for primary prevention of Alzheimer's disease: an analysis of population-based data". Lancet Neurol. 2014 Aug (13);8:788-94.

# The year 2018 in figures\*

# 2018

\* Provisional closure of 2018. Aggregated data from the Pasqual Maragall Foundation and the Barcelonaβeta Brain Research Center. The two entities are subject to an external annual accounts audit.

Budget  
€8,622,166

 €4,154,639  
Pasqual Maragall Foundation

 €4,467,527  
Barcelonaβeta  
Brain Research Center

 **24,508**  
Members

 **121**  
Staff at headquarters

 **939**  
Participants visited

 **1,228**  
Cognition sessions

 **1,050**  
Magnetic resonance  
acquisitions

 **162**  
Caregivers participating  
in therapeutic groups

 **48,733**  
Social media  
followers

 **1,430**  
Appearances  
in the media

 **113**  
Solidarity actions

# The Pasqual Maragall Foundation celebrates 10 years fighting against Alzheimer's



2018 has been a year of celebration for the Pasqual Maragall Foundation. On his 10th anniversary, **the Foundation remembered the vision and determination of its founder, the former mayor of Barcelona and former president of the Generalitat Pasqual Maragall.** At the press conference held on October 20th, 2007, he said he wanted to beat Alzheimer's, because nowhere it was written that Alzheimer's should be invincible.

Years later, this materialized in the institution that bears his name as well as in a pioneering research center in the world. Also in the main task of the professionals who work there which became the hope of many people. Therefore, the acts of celebration of these first 10 years of life of the Foundation have wanted to involve all those who share the vision of a future without Alzheimer's. Thanks to everyone. Because together, it is possible.

## MEMORIES

To commemorate the 10th anniversary, and on the occasion of World Alzheimer's Day, on September 21st, the Foundation asked 40 friends of Pasqual Maragall to share an unforgettable memory lived with him. The result was the book *Records*, which the Foundation published with the RBA publishing house.

It is an acknowledgment to the figure of Pasqual Maragall in which personalities from the political, business and cultural world, as well as personal friends and collaborators, evoke special memories lived with the former president of the Generalitat and ex-mayor of Barcelona.

Lluís Bassat, Jordi Basté, Carmen Cervera, Joan Clos, Odón Elorza, Jordi Évole, Isidre Fainé, Javier Mariscal, Mayte Martín, Federico Mayor Zaragoza, Eduardo Mendoza, Queco Novell, Margarita Obiols, Julia Otero, Sílvia Pérez Cruz, Richard Rogers and Mònica Terribas are some of the 40 friends who participate with their stories in the book published on the occasion of the 10th anniversary of the Foundation.

*With the support of*

**RBA**



## PRESENTATION IN BARCELONA

On September 20th, the book *Recuerdos* was presented at an event organized by the RBA Foundation and attended by more than 800 people. The event brought together on the same stage Queco Novell, Julia Otero, Margarita Obiols and Lluís Bassat, some of the 40 friends who have collaborated with their stories in the reconstruction of the memories that make up the book.

## PRESENTATION IN MADRID

On November 28th, the book *Recuerdos* was presented at the CaixaForum of Madrid. María Teresa Fernández de la Vega, Federico Mayor Zaragoza and Santiago de Torres shared the stage in an event directed by journalist Marta Solano, with more than 200 attendees.

## 10TH ANNIVERSARY GALA

On November 14th, the Pasqual Maragall Foundation celebrated its 10th anniversary in the company of volunteers who participate in its research projects, partners, sponsors and collaborators, in an emotional gala at the Auditorium of the Forum of Barcelona. The event was attended by about 2,000 people.

During the ceremony, the main achievements of the Foundation's 10-years history were exposed, such as the launch of the Alfa study and the BBRC, promoted thanks to the strong support of "la Caixa".

The music also had a prominent role at the gala, with the performances of **Toti Soler, Gemma Humet and Joan Dausà**, and a conference dedicated to the effect and associated memories that music can generate in healthy people and Alzheimer's patients.

## PERFUME "ÉS POSSIBLE" BY EUROFRAGANCE

On the occasion of the 10th anniversary, Eurofragance, one of the entities of the Patronage Council, created the perfume "és possible", inspired by the values and principles of the Pasqual Maragall Foundation: energy, optimism, innovation, creativity, affection, warmth, scientific rigor and social responsibility. The perfume, which was given to those attending the gala, also symbolizes the strong relationship between smell and memory.

10 Years fighting against Alzheimer's

# The research

## The Barcelonaβeta Brain Research Center (BBRC)



ACTIVITY OF THE BARCELONAβETA  
BRAIN RESEARCH CENTER IN 2018



### ALPHA STUDY

The objective of the Alpha Study is to collect information that will allow **identifying biomarkers and risk factors** to understand the natural history of the disease and **to design strategies for the prevention** of Alzheimer's disease.

In 2018, the BBRC visited 939 participants, the majority coming from the Alfa Study, launched in 2013 thanks to the support of "la Caixa".

The Alfa Study is one of the research platforms dedicated to the early detection and prevention of Alzheimer's with a greater number of participating volunteers than exists in the world. It is made up of **2,743 cognitively healthy participants**, between 45 and 75 years old, most of whom are children of Alzheimer's patients.

All the participants perform a series of tests (cognition test, clinical history, life habits and, some, an MRI) in the first visit, and then, depending on their characteristics and availability, they are invited to participate in research projects linked with additional tests.

Thanks to these tests, which are carried out periodically, our researchers have already published relevant advances in prestigious scientific journals.

Alpha Study has the support of



## ALZHEIMER'S PREVENTION PROGRAM

The BBRC Alzheimer's Prevention Program focuses on the preclinical phase of the disease, which is characterized by a series of changes in the brain that can start up to 20 years before the onset of symptoms, and in the prodromal phase, which occurs when the first symptoms of cognitive deterioration appear, but the affected person remains independent in his day to day life. The program is led by Dr. José Luis Molinuevo and is structured in two research groups that collaborate closely from a clinical, cognitive, genetic and biological markers and neuroimaging perspective.

### CLINICAL RESEARCH GROUP, BIOMARKERS AND RISK FACTORS

The Clinical Research Group, Biomarkers and Risk Factors is formed by a multidisciplinary team of experts in the field of genetics, clinical practice, biomarkers and neuropsychological evaluation. Led by Dr. José Luis Molinuevo, they investigate the biological processes that precede the onset of dementia, in order to establish prevention programs.

#### Lines of investigation:

- Association between subtle cognitive impairment, subjective perception and brain changes and related objective cognitive performance.
- Association between sleep disorders, cognitive impairment and Alzheimer's disease.
- Role of pro-rejuvenation and aging blood risk factors in Alzheimer's disease.
- Personalized study of the risk of developing dementia in order to offer personalized prevention plans.
- Epidemiological studies on the role of pollution, anxiety, depression and other factors in Alzheimer's.
- Role of vascular risk factors in the pathophysiology of Alzheimer's.
- Effect of dietary intake of omega-3 fatty acids in the preclinical phase of Alzheimer's.
- Multimodal interventions for the prevention of cognitive deterioration.



*Team of Clinical Research  
Group, Biomarkers  
and Risk Factors from BBRC.*



### NEUROIMAGING RESEARCH GROUP

The Neuroimaging Research Group focuses on the study of brain images obtained by magnetic resonance and positron emission tomography to reveal characteristics associated with healthy aging and risk factors for Alzheimer's disease. The group, led by Dr. Juan Domingo Gispert, is formed by a multidisciplinary team expert in the acquisition, processing and analysis of complex neuroimaging data.

#### Lines of investigation:

- Cerebral correlations of the preclinical phase of Alzheimer's disease and risk factors.
- How to improve the use of positron emission tomography images of amyloid in the clinical setting and in Alzheimer's research.
- Genetic determinants of brain phenotypes.
- Development of new techniques to detect the preclinical phase of Alzheimer's disease.
- Generation of a repository of images of the preclinical phase of Alzheimer's disease.

*The members  
of the BBRC Neuroimaging  
Research Group*



## RESEARCH PROJECTS

### CLINICAL RESEARCH UNIT IN THE PREVENTION OF DEMENTIA

**The Clinical Research Unit in the Prevention of Dementia is a new pioneering research project that studies the risk, and its biological bases, of developing dementia five years after.**

The study was launched in May 2018, has an expected duration of three years and **will incorporate some 400 participants between 60 and 80 years old** who are experiencing a decrease in memory or other cognitive abilities, but who have not been diagnosed Alzheimer's disease or any other form of dementia or disease that justifies it.

The project offers participants a customized and individualized action plan to try to reduce their risk of developing dementia. This plan consists of a series of advice aimed at reducing the modifiable risk factors of the disease and provides for the possibility of offering participation in specific studies of detection and prevention of Alzheimer's to those people who meet the corresponding requirements.

In addition to investigating if there is a biological basis associated with the calculated risk algorithm, the project also studies the possible emotional impact that the fact of individually revealing this risk percentage may have, as well as the benefits that may be derived from participation in the study.

After the recruitment phase of the study, which was done through an online form, visits began in July 2018. From then until the end of the year, **253 visits were made to 81 participants.**

*The Memory Program of the BBRC is dedicated to different aspects and techniques applied to research in cognition, memory and human behavior in ecological conditions.*

*The program, led by Dr. Luis Martínez-Otero, began in late 2017 and will end in 2019. It is structured in two groups: the Decisions, Emotions and Memory Research Group, led by Dr. Martínez-Otero, and the Research Group on Neural Mechanisms of Memory, headed by Dr. Rodrigo Quian-Quiroga, visiting researcher of the BBRC.*



### BIO ALFA

Bio Alfa is a new research project, also started in 2018, with the aim of investigating whether certain blood factors that have been associated with aging or brain rejuvenation in mice can become potential future therapeutic targets in humans to fight the disease of Alzheimer's and other dementias.

The presence of these blood markers will be measured in the Alfa Study participants and in other interest groups, such as adolescents, young people up to 25 years old and people over 70. In addition, thanks to a collaboration agreement with the **Blood Bank and Tissues**, blood samples from the umbilical cord will also be analyzed.

In 2018, a total of **60 participants** were visited, who went to the headquarters of the Pasqual Maragall Foundation to have a blood extraction and provide basic demographic data.

The research is led by Dr. Marc Suárez-Calvet, under the direction of Drs. José Luis Molinuevo, at the BarcelonaBeta Brain Research Center, and Kaj Blennow, at the Sahlgrenska Academy of the University of Gothenburg. The Bio Alfa is financed with the Marie Skłodowska-Curie grant number 752310, as part of the European Union's Horizon 2020 research and innovation program.



### ALFA+

Alfa + is a cohort study to identify the factors that favor the onset of Alzheimer's disease and other aspects, such as the age of onset, the most frequent symptoms and how these factors act on cognitive ability and in the brain.

In 2018, **361 visits were made to 122 participants.** The project will involve a total of 450 people without cognitive impairment, who perform different tests every three years such as, for example, cognitive tests, a lumbar puncture to remove cerebrospinal fluid and two magnetic resonances.

### PET

Most of the Alfa + Study participants are also invited to perform two sessions of positron emission tomography (known as PET), at the facilities of the Hospital Clínic in Barcelona. The objective is to be able to analyze these images to improve the detection of Alzheimer's disease in its preclinical phase.

In 2018, **188 PET of 18F-flutemetamol** were performed, to show the amount and location of the amyloid protein, and **152 PET of 18F-FDG**, to see which brain areas are more or less active.



#### ALFA GENETICS

Alfa Genetics is a transversal study with the aim of expanding the cognitive, genetic and cerebral characterization of people without cognitive impairment of the Alpha Study to improve knowledge of the molecular basis of Alzheimer's disease, as well as to identify new biomarkers and risk factors.

During 2018, **376 participants** of the total of 1,700 that will be part of the project were visited. After updating the clinical history and cognitive status of the study participants, they are given an MRI, an odor identification test and a blood sample to determine basic biochemical variables, as well as to carry out a genetic analysis.

#### ALFA COGNITION

Alfa Cognition is an observational and prospective study that analyzes the relationship between the subjective perception of cognitive decline and the presence, evolution or risk of clinically objective cognitive deterioration. It also analyzes the relationship of these parameters with the brain changes associated with Alzheimer's disease.

In 2018, **56 visits were made to 36 participants**, of the total of 200

that will participate in the project. Participation in the study involves the performance of neurological tests, neuroimaging, cognitive tests and life habits, and a blood extraction in order to rule out any condition that may cause cognitive impairment.

#### ALFA LIFE

Alfa Life is a program of control and intervention on the modifiable risk factors of Alzheimer's disease through the promotion of healthy lifestyle habits and the control of cardiovascular risk factors.

In 2018 the last **36 participants** of the total of 409 people who have been part of the study were visited. For one year, all participants received a series of personalized guidelines and tips for the promotion of healthy living habits in the areas of nutrition, physical exercise and cognitive and social activity, completed a series of follow-up questionnaires and were visited twice in the headquarters of the Pasqual Maragall Foundation. The results of the analysis were presented at the Spanish Society of Neurology, by Dr. Nina Gramunt.

The results of the study will allow researchers to assess whether the delivery of these guidelines and the

follow-up of participants promoted changes in life habits related to cardiovascular risk factors and dementia, as well as analyzing the possible association with changes in objective physiological variables.

#### NPAD STUDY

The Neurofeedback for the Prevention of Alzheimer's Disease (NPAD) study ended in 2018 and is in the phase of analysis of results. The project, led by Dr. Stavros Skouras, combined virtual reality and neurofeedback to establish associations between performing a series of brain training tasks and the presence of certain biomarkers and other data related to Alzheimer's disease.

In the year 2018 the last three participants without cognitive alteration from the Alfa Study were visited. In total, about a hundred people have participated in the project. The NPAD has been financed with the Marie Skłodowska-Curie grant number 707730, as part of the European Union's Horizon 2020 research and innovation program.



## INTERNATIONAL COLLABORATIONS

#### EPAD

The European Prevention of Alzheimer's Dementia Consortium (EPAD) project was established in 2015 and consists of 38 European institutions, including the BBRC. Its objective is to expand the knowledge of the preclinical phase of Alzheimer's disease and develop an infrastructure that allows carrying out concept tests to accelerate decision-making in the development of candidate drugs to prevent the disease.

The EPAD ended in 2018 with more than 1,300 participants recruited in 21 European centers. The BBRC was the center with the most registered participants in all of Europe. In total, the operations team of the Pasqual Maragall Foundation research center carried out **893 visits to nearly 200 participants** during the year, who did regular check-ups, cognitive, genetic and MRI tests, as well as a blood, saliva, urine and cerebrospinal fluid extraction.

Dr. Karine Fauria, manager of scientific resources of the BBRC, points out: **"The EPAD is the most complex observational study we do, and we have even had to design specific procedures to carry it out."**



**It has only been possible to reach these figures of 2018 thanks to the great effort and motivation of our team".**

The EPAD is funded by grant number 115736 of the Innovative Medicines Initiative, which is a joint initiative of the research and innovation program of the European Commission Horizon 2020 and the European Federation of Pharmaceutical Industries and Associations (EFPIA).



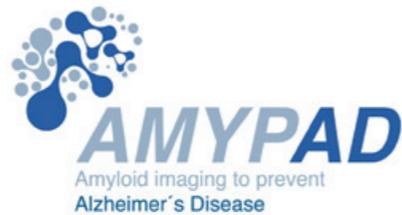
### AMYPAD

The Amyloid Imaging to Prevent Alzheimer's Disease (AMYPAD) is a European project constituted in 2016 and formed by 17 European institutions, among which is the BBRC. Its objective is to improve the knowledge, diagnosis and treatment of Alzheimer's through the use of a cerebral amyloid PET.

The project consists of different parts: a diagnostic study to determine the value of amyloid PET, another of prognosis to better understand the natural history of the disease in coordination with the EPAD project and a proof of concept in which models of evolution of the disease will be build.

During 2018, the BBRC team participated in different project working groups and established the procedures required to initiate the recruitment of participants for the diagnostic study.

AMYPAD is funded by grant number 115952 of program 2 of the Innovative Medicines Initiative, which is a joint initiative of the research and innovation program of the European Commission Horizon 2020 and the European Federation of Pharmaceutical Industries and Associations (EFPIA).

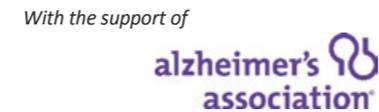


*AMYPAD is funded by grant number 115952 of program 2 of the Innovative Medicines Initiative, which is a joint initiative of the research and innovation program of the European Commission Horizon 2020 and the European Federation of Pharmaceutical Industries and Associations (EFPIA).*

### TRIBEKA

TRIBEKA is an initiative of the BBRC and the University of Edinburgh driven to identify the brain alterations prior to the onset of the symptoms of Alzheimer's disease and other neurodegenerative diseases.

The mission of this consortium is to generate an open access neuroimaging platform that allows offering broadly characterized information to advance in the design of new treatments. During 2018, the research team and the data center of the BBRC worked to make available to the global scientific community the information gathered in the project, through the **Global Alzheimer's Association Interactive Network (GAAIN)**.



## CLINICAL TRIALS

The BBRC works with the pharmaceutical industry and public-private projects in order to test drugs that prevent or delay the onset of Alzheimer's disease.

Active clinical trials in the BBRC, on December 31st, 2018:

### GENERATION S1

It analyzes the efficacy of two drugs (CAD106 and CNP520), administered separately, to delay the onset and progression of clinical symptoms associated with Alzheimer's disease, in participants at risk of developing symptoms. The trial envisages recruiting 1,340 participants around the world, committed to continue the treatment for five and eight years. In 2018, **60 people were visited** in the BBRC to assess their possible inclusion in the project, and **10 followed the treatment**.

### GENERATION S2

It evaluates the effects and safety of a drug (CNP520) on the cognition and overall clinical status of people at risk of developing clinical symptoms of Alzheimer's disease according to their age, genetic predisposition and amyloid protein load in the brain. The trial plans to recruit 2,000 people from around the world, committed to continue treatment between five and seven years. In 2018, **17 people were visited** in the BBRC to assess their possible inclusion in the project, and **13 followed the treatment**.

### AB1601

It evaluates the efficacy, safety, tolerability and immune response of a drug (ABvac40) in people between 55 and 80 years old with mild amnesic cognitive impairment or in very early stages of Alzheimer's disease. The study plans to include 200 participants, from mostly Spanish centers, but also from France, Italy and Sweden, who will continue the treatment for 42 weeks. In 2018, **two people were visited** at the BBRC to assess their possible inclusion in the project, and **one followed the treatment**.

*In the year 2018, four clinical trials were carried out: Generation S1 and Generation S2 by Novartis, EARLY by Janssen and AB1601 by Araclon Biotech (Grifols). The promoter of the EARLY study suspended the clinical trial in June after analyzing the performance and risk-benefit of the drug, which was aimed to delay the onset of cognitive decline in people at risk of developing the disease. In the BBRC, no participant initiated the treatment.*



## PRINCIPAL SCIENTIFIC PUBLICATIONS

In 2018, the BBRC researchers published 47 articles in prestigious international scientific journals.

Nineteen of these articles were led by the BBRC and published in magazines of the first decile (45%) and the first quartile (89%). These are some of the principal publications:

Rojas S, Brugulat-Serrat A, Bargalló N, Minguillón C, Tucholka A, Falcon C, Carvalho A, Morán S, Esteller M, Gramunt N, Fauria K, Camí J, Molinuevo JL, Gispert JD. **Higher prevalence of cerebral white matter hyperintensities in homozygous APOE-ε4 allele carriers aged 45-75: Results from the ALFA study.** J Cereb Blood Flow Metab. 2018 Feb;38(2):250-261.

Molinuevo JL, Minguillon C, Rami L, Gispert JD. **The rationale behind the new Alzheimer's disease conceptualization: lessons learned during the last decades.** J Alzheimers Dis. 2018 Mar;62(3):1067-1077.

Jack CR Jr, Bennett DA, Blennow K, Carrillo MC, Dunn B, Haeberlein SB, Holtzman DM, Jagust W, Jessen

F, Karlawish J, Liu E, Molinuevo JL, Montine T, Phelps C, Rankin KP, Rowe CC, Scheltens P, Siemers E, Snyder HM, Sperling R; Contributors. NIA-AA Research Framework: **Toward a biological definition of Alzheimer's disease.** Alzheimers Dement. 2018 Apr;14(4):535-562.

Operto G, Cacciaglia R, Grau O, Falcón C, Brugulat-Serrat A, Ródenas P, Ramos R, Morán S, Esteller M, Bargalló N, Molinuevo JL, Gispert JD. **White matter microstructure is altered in cognitively normal middle-aged APOE-ε4 homozygotes.** Alzheimers Res Ther. 2018 May 24;10(1):248.

Cacciaglia R, Molinuevo JL, Falcón C, Brugulat A, Sánchez-Benavides G, Gramunt N, Esteller M, Morán S, Minguillon C, Fauria K, Gispert JD. **Effects of APOE-ε4 allele load on brain morphology in a cohort of middle-aged healthy individuals with enriched genetic risk for Alzheimer's disease.** Alzheimers Dement. 2018 Jul;14(7):902-912.

Sánchez-Benavides G, Grau-Rivera O, Cacciaglia R, Suárez-Calvet M, Falcon C, Minguillón C, Gramunt N, Gispert JD, Molinuevo JL. **Distinct Cognitive and Brain Morphological Features in Healthy Subjects Unaware of Informant-Reported Cognitive Decline.** J Alzheimers Dis. 2018 Aug;65(1):181-191.

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### NEW STUDY ON CEREBRAL STRUCTURE ALTERATIONS

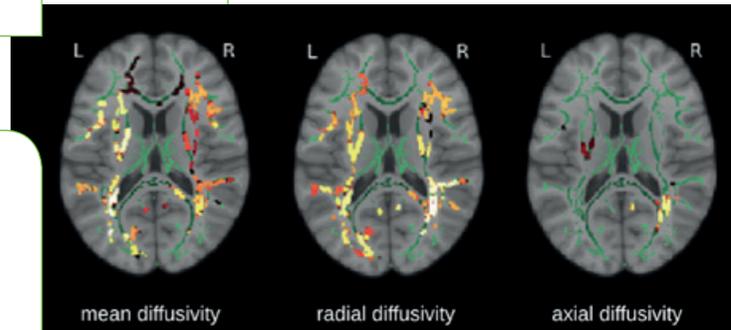
In March 2018 we announced that, thanks to the Alfa Study, we have been able to detect morphological alterations in the cerebral gray matter of people without cognitive alteration carrying the variant of the gene that confers the greatest genetic risk of developing Alzheimer's, the *APOE-ε4*. It is the study with the largest number of carriers of this variant in the world who did an MRI.

### NEW RESEARCH ON MICROSTRUCTURAL CHANGES IN THE BRAIN

In June 2018, we published another study on *APOE-ε4*, in which we revealed that participants with this gene presented microstructural changes in the cerebral white matter, independent of the changes related to age.

### PIONEERING STUDY ON THE ROLE OF THE CLOSEST RELATIVES

In September 2018 we discovered that the closest relatives of people at risk of being in the preclinical phase of Alzheimer's disease, during which there are no symptoms, can perceive changes that may be relevant and go unnoticed by the affected person. The research was conducted on 2,640 participants of the Alfa Study.



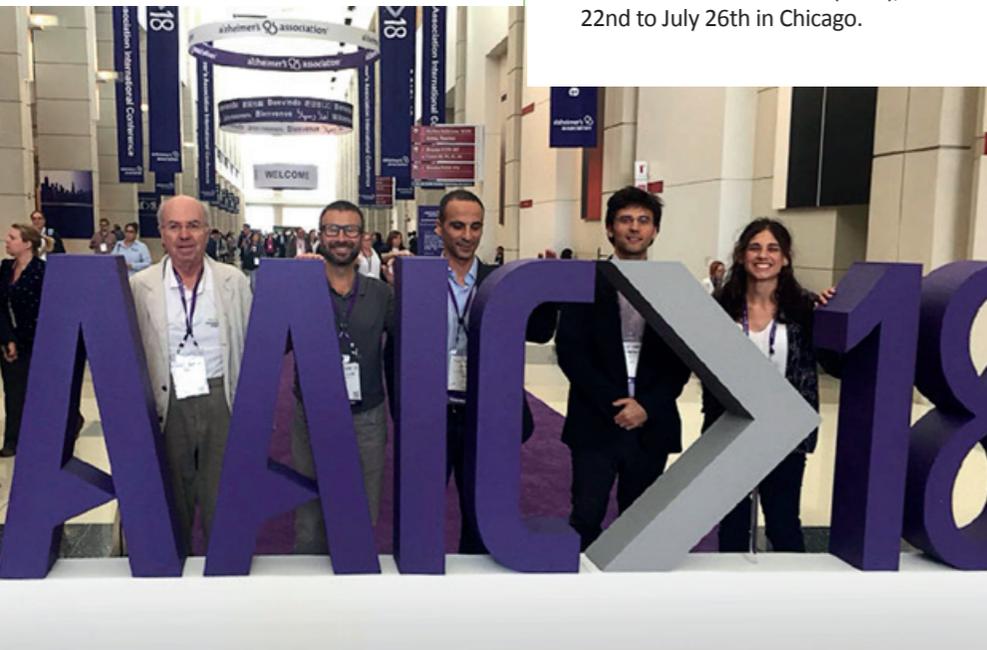
## CONFERENCES AND TALKS

Throughout the year our research staff has been participating in conferences and research congresses.

### PARTICIPATION OF THE BBRC IN THE CONGRESS OF THE ALZHEIMER'S ASSOCIATION

The BBRC researchers presented the latest developments of the Alfa Study and the Clinical Research Unit in the Prevention of Dementia in the world's most important conference in the field of Alzheimer's research, the Alzheimer's Association International Conference (AAIC), held on 22nd to July 26th in Chicago.

BBRC'S team at the  
International Congress of  
Alzheimer's Association.



### OTHER PRINCIPAL CONFERENCES

January 19th, Miami (United States). Participation of Gemma Salvadó in the **Human Amyloid Imaging congress**.

March 16th, Turin (Italy). Participation of Dr. José Luis Molinuevo in the Advances in **Alzheimer's and Parkinson's Therapies: an AAT-AD / PD Focus Meeting**.

April 17th, Buenos Aires (Argentina). Participation of Dr. José Luis Molinuevo in a satellite conference of the **Alzheimer's Association**.

May 25th, Barcelona. Participation of Dr. Gonzalo Sánchez in the **XI Barcelona-Pittsburgh Biennial Conference**.

June 13th, Las Palmas de Gran Canaria. Participation of Dr. Sandra Poudevida in the **National Congress of the Spanish Society of Geriatrics and Gerontology**.

July 2nd, Kyoto (Japan). Participation of Dr. José Luis Molinuevo in the **World Congress of Basic and Clinical Pharmacology**.

July 7th, Toulouse (France). Participation of Dr. Stavros Skouras in a satellite event of the **Euroscience Open Forum**.

September 20th, Barcelona. Participation of Dr. Nina Gramunt in the **X Patient congress**.

September 21st, Barcelona. Participation of Drs. Nina Gramunt and Gema Huesa at the **Barcelona Olfaction Congress**.

October 24th, Hamburg (Germany). Participation of Drs. Karine Fauria and Nina Gramunt at the Transnational Conference on **Integrated Community Care**.

October 24th, Barcelona. Participation of the BBRC team in the Clinical Trials of **Alzheimer's Disease (CTAD) congress**.

October 25th, Lisbon (Portugal). Participation of Dr. Sandra Poudevida in the **1st International Congress of Inclusive Social Responses**.

December 18th, Bangalore (India). Participation of Dr. José Luis Molinuevo in a satellite conference of the **Alzheimer's Association**.



### JOSÉ LUIS MOLINUEVO GIVES THE INAUGURAL CONFERENCE OF THE CONGRESS OF ALZHEIMER EUROPE

The scientific director of the Alzheimer's Prevention Program of the BBRC, Dr. José Luis Molinuevo, gave the inaugural lecture of the Alzheimer Europe Conference, on October 29 in Barcelona. In the presentation "Will we be able to prevent Alzheimer's?" he addressed the challenges and opportunities related to the prevention of the disease.

Dr José Luis Molinuevo giving  
his lecture at the Alzheimer  
Europe Conference.

# Social area: therapeutic groups



The program of therapeutic groups promoted in the year 2018 the creation of 16 new groups in which 162 caregivers of people affected by Alzheimer's participated.

These groups received the support of the Generalitat of Catalonia, the Provincial Council of Girona and the Provincial Council of Barcelona, and four of them were financed by the subsidy granted by the Ministry of Health, Social Services and Equality, charged to the tax assignment of the personal income tax. The different groups were carried out in Barcelona, Girona, Cornellà de Llobregat, Galicia, Tenerife, Madrid and Andalusia.

The results of the Cuidamos study, promoted by the Pasqual Maragall Foundation with the support of "la Caixa" and the collaboration of the Spanish Alzheimer's Confederation (CEAFA), were presented at the 59th Congress of the Spanish Society of Geriatrics and Gerontology in June.

In 2018 was also launched the **Course of conducting therapeutic groups and counseling for family caregivers**

**of people with illness**, an online training program for therapists, whose development began in 2017 together with "la Caixa" and the Institute of Continuous Training of the University of Barcelona.

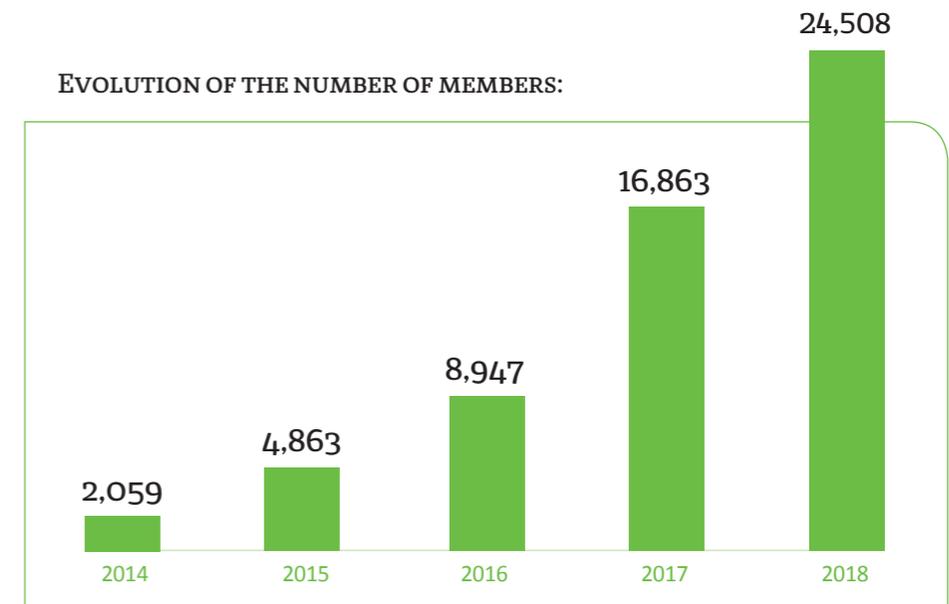
The training, which has the characteristics of an online university extension, is certified with 3 ECTS credits and is structured in 67 hours online self-learning and 8 contact hours.

With the support of



# Fundraising and social support

EVOLUTION OF THE NUMBER OF MEMBERS:



## Network of partners and donors

In 2018 the network of partners grew by **7,645 new associates**, who contributed €650,706. With this increase, **24,508 members** were reached, representing a total annual contribution of **€2,940,540**. As for the donors, **1,362 donations** were received, which meant an income of **€135,476**.

**Claß.** It currently consists of **65 members** who contribute an annual contribution of **€78,782**. The Claß offers its members the opportunity to learn first-hand about the Alzheimer's prevention projects we develop. With this objective, on July 25 a private

presentation of the Clinical Research Unit in the Prevention of Dementia was made in the facilities of the research center.

**Giving Tuesday.** In 2018 the Pasqual Maragall Foundation has once again joined #GivingTuesday, the global solidarity movement that celebrates the importance of giving.

**International Day of the Solidarity Legacy.** On the occasion of the International Solidarity Legacy Day, on September 13th the Foundation joined the campaign promoted by Solidarity Legacy under the slogan #CambiaLosTitularesDelFuturo, focused on informing the society about the possibility of donating in a will to a charitable cause.

## Solidarity actions

During 2018 there were numerous actions, events and solidarity activities promoted by entities and individuals with the aim of raising funds to advance

the research on Alzheimer's promoted by the Pasqual Maragall Foundation. These actions, a total of 113 initiatives, meant an income of **€147,577**, €21,000 from a donation from the Atrevia communication agency and nearly €2,000 from other support actions.



### SOLIDARITY FUNDRAISING CAMPAIGN "CÉNTIMO A CÉNTIMO, HACEMOS MEMORIA", IN VIENA RESTAURANTS

The initiative, the result of a collaboration agreement between the Catalan start-up Worldcoo and the Viena catering establishments, was launched in November 2018 to raise funds in favor of research into Alzheimer's disease. With the rounding-up of all the amount of orders paid by card, Viena has raised more than €200,000 as we publish this edition. All the money raised in this collaboration with Viena will be allocated, entirely, to the new Clinical Research Unit in the Prevention of Dementia, promoted by the Barcelonaβeta Brain Research Center, the research center of the Pasqual Maragall Foundation.

### CAMPAIGN "HEALING SMILES"

On November 22nd, 2018, Mútua de Granollers presented the 4th edition of the campaign "Healing Smiles", which allocates all funds raised to the research of Alzheimer's disease of the Pasqual Maragall Foundation. Throughout 2018 and 2019, the entity has organized several actions to raise funds, such as the sale of lottery of the entity and solidarity bracelets, talks on the disease, handball matches, etc., as well as a "row zero" in the Mútua party so that companies and associates could make a donation to the Foundation.

### SMS TO 28058

Thanks to the collaboration of Movistar, Vodafone, Orange, Yoigo and Euskaltel, through our SMS numbers 28058 (€1.2) and 38058 (€6) in 2018 we received an income of €5,321

### 2ND EDITION OF SOLIDARITY XMAS TREE

Promoted by the Paseo de Gracia Commerce Association, the initiative raised more than €100,000 for the different research projects of the Pasqual Maragall Foundation and the Pequeño Deseo Foundation. The collection was the result of the auction of 13 Christmas trees created by the luxury brands Alfons & Damian, Brunello Cucinelli, Cartier, Castañer, Christian Louboutin, Ermenegildo Zegna, ETRO, Loewe, Luzio, Lydia Delgado, Natura Bissé, Rabat and Santa Eulalia. The auction took place during a charity gala held at the Majestic Hotel & Spa in Barcelona, which brought together representatives of Catalan civil society and business life in Barcelona.

## Solidarity entities

### ESPAI GIRONÈS PROMOTES AN INNOVATIVE CAMPAIGN AGAINST ALZHEIMER'S

"Message to space. For a future that everyone remembers" is the name of the campaign that Espai Gironès carried out from December 1st, 2018 to January 5th, 2019 for the benefit of the Pasqual Maragall Foundation. Sponsored by the musician Pep Poblet and the actor, director and theatrical author Martí Peraferrer, the campaign launched different actions with which it was possible to raise €10,000 for the research against Alzheimer's.

### THE TRAM TEAM MAKES A SOLIDARITY VIDEO AT CHRISTMAS

Almost 40 TRAM workers participated dancing in a solidarity video in benefit of the Pasqual Maragall Foundation. The initiative, which achieved more than 200,000 views, raised €10,000 for the entity.

### SOLIDARITY INSURANCE AWARD

MetLife, a leading company in life and accident insurance worldwide, gave the Pasqual Maragall Foundation one of the solidarity awards organized by INESE. The award, with a value of €4,500, will go to the Alfa project.





## Solidarity entities

### SOLIDARITY OPENING OF THE YURBBAN PASSAGE HOTEL

Yurbban Hotels joined the fight against Alzheimer's due to the opening of its new Yurbban Passage hotel in Barcelona. With this initiative, it raised €4,000 for the benefit of the Pasqual Maragall Foundation, specifically 1% of the profits obtained from all its direct sales between April and December 2018.

### REMEMBER ME: FASHION FOR A FUTURE WITHOUT ALZHEIMER'S

The solidarity and sustainable fashion brand Uttopy launched the new collection "Remember me", designed with the collaboration of the ELISAVA design school. T-shirts and accessories for men, women and children to sensitize younger generations, through

"fashion with cause", on the importance of research against Alzheimer's to overcome the disease.

### SOLIDARITY FOOTBALL 7 TOURNAMENT

San Cristóbal de Entreviñas (Zamora) hosted the IV Football 7 Tournament "For a Future without Alzheimer's", organized by Obra Social CGB, the City Council and "Amigos Quintos del 66".

### 1,000 PEOPLE PARTICIPATE IN THE VI SOLIDARITY GALA "WE ARE ONE"

On June 7th, the Espanyol stadium hosted the solidarity gala "We are one", which was presented again by the actor Santi Millán. The gala, as well as the football tournament held the previous day and the solidarity paddle tennis tournament held on June 14th, were organized for the benefit of the Pasqual Maragall Foundation, Aura, the Social Work of the Hospital Sant Joan de Déu and the Damm Foundation.



## Challenges and solidarity sports

### THE PASQUAL MARAGALL FOUNDATION ALREADY HAS A FLAG ON KILIMANJARO

The adventurer from Puerto Llano (Ciudad Real) Laura Parrilla raised the double challenge of raising funds for Alzheimer's research and reaching the top of Kilimanjaro. All this for his grandfather Paco. The result: top crowned and more than €3,000 raised for the benefit of the Pasqual Maragall Foundation.

### SOLIDARITY CHALLENGE: ULTRATRAIL OF CAPPADOCIA

The researcher Francisco Câmara raised more than €4,000 and successfully completed the ultratrail of Cappadocia. All for his mother, affected by Alzheimer's, and in favor of the research carried out by the Pasqual Maragall Foundation.

### CHARITY SPINNING MASTERCLASS

Estefanía Ruiz got 100 people to pedal in favor of the Pasqual Maragall Foundation at the DreamFit in Madrid.

## Solidarity celebrations

### AROUND FIFTY BRIDES AND GROOMS OPT FOR A "MEMORY AGAINST OBLIVION" IN 2018

Thanks to all the couples who decided to give personalized postcards of the Foundation, more than €10,000 were collected, which will be used entirely for research to prevent Alzheimer's disease.

### TWO BIRTHDAY GIFTS TO REMEMBER

Michael Goldenberg and Miriam Tarre asked as a gift in their respective anniversaries a donation in favor of the Pasqual Maragall Foundation. Initiatives that raised more than €8,000 to continue researching the prevention of Alzheimer's.

### A VERY SPECIAL COMMUNION GIFT

Daniel, aged nine, asked that his communion gifts be a donation to the Pasqual Maragall Foundation and research to prevent this disease, which his grandmother suffers.



## Solidary schools

- The **Capitol School of L'Hospitalet de Llobregat** dedicated its Christmas gala to the Pasqual Maragall Foundation.
- On December 14th, the **Patufet Children's School** organized the 5th edition of the Ruzafa Solidarity Tour of Valencia, this year in favor of the Pasqual Maragall Foundation.
- The fifth grade pupils of the **Canigó Public School of Sant Just Desvern** organized a solidarity market for Alzheimer's research.

# Dissemination



## THE BLOG "LET'S TALK ABOUT ALZHEIMER'S" IS LAUNCHED

The Pasqual Maragall Foundation launched the blog "Let's talk about Alzheimer's", a tool endorsed by scientists, experts and professionals of the Barcelonaβeta Brain Research Center, the Foundation's research center, to collect specialized information about this disease. Its objective is to be a tool at the service of affected people, relatives and caregivers, and also of those who seek proven and quality information on Alzheimer's.

## CAMPAIGN "STREETS IN WHITE"

During four days, from September 19th to 22nd, and in the framework of the World Alzheimer's Day that is celebrated every year on September 21st, the plaques of 10 streets and a square in the Ópera neighborhood of Madrid were covered to make pedestrians put themselves in the skin of a person with Alzheimer's and experience one of their symptoms: disorientation.

This campaign sponsored by "la Caixa", which was already carried out in Barcelona in 2017, also consisted of a video and activity on social networks under the hashtags #CarrersEnBlanc and #CallesEnBlanco, in order to generate greater dissemination and raise awareness among the population about the disease and the need to boost research.



## 1ST EDITION OF THE BRAIN FILM FEST AND DELIVERY OF THE 8TH SOLÉ TURA PRIZE

From March 15th to 18th, the 1st edition of the Brain Film Fest was held, of which the Pasqual Maragall Foundation is a promoter and co-organizer. It is a new international film festival dedicated to show and promote the creation and diffusion of short films about any aspect of the brain, its incredible capabilities or also its diseases. In addition, on March 18th, within the framework of the festival itself, the VIII Solé Tura Prize was awarded, to which 220 works from all over the world were presented.

The initiative brought together more than 2,000 people who could enjoy all the activities programmed in the Brain Film Fest: three feature films out of competition, 28 short films to compete, the activity framed in the CCCB Alzheimer Program, a debate, two workshops and two talks as parallel activities.

## SIGNATURE CAMPAIGN "SIGNING FOR A FUTURE WITHOUT ALZHEIMER'S"

More than 105,000 people joined in 2018 to the signature campaign launched by the Pasqual Maragall Foundation in April 2017. This initiative, which aims

to involve the population and raise awareness among the competent bodies on the need to provide more resources for Alzheimer's research, reached in 2018 a cumulative total of 160,462 signatures.

## 4TH EDITION OF "PUT THE HEART TO TAKE CARE OF THE BRAIN"

Once again, in the framework of World Day of the Elderly, the Foundation organized, in collaboration with "la Caixa" and the DiR Clubs, the "Put the heart to take care of the brain" day. This event, in which 200 people participated, aims to promote physical exercise and healthy lifestyle habits.

## BRAIN WEEK

For the second consecutive year, the Pasqual Maragall Foundation and the Barcelonaβeta Brain Research Center have joined the activities organized in Barcelona for the World Brain Week, which took place from March 12th to 16th. In the framework of the Week, **Dr. Nina Gramunt**, scientific coordinator of the Social Intervention Area, gave the talk "Put the heart to take care of the brain", on March 12th and 14th, at the Joan Coromines Institute in Hostafrancs.



**“FROM BUBBLE - BARCELONA FOR ALZHEIMER’S”**

The Pasqual Maragall Foundation joined in 2018 the initiative “From Bubble - Barcelona for Alzheimer’s”, an awareness project about the disease articulated through the work of contemporary art From Bubble, by the artist Daniel Bagnon, and that filled the streets of the city with more than 4,000 bubbles, to symbolize the progressive loss of neuronal connections that Alzheimer’s causes. With its participation in different activities, the Foundation became one of the five entities that integrated the initiative, in collaboration with the City Council.

**OPEN DAY**

On December 2nd, the Pasqual Maragall Foundation and the Barcelonaβeta Brain

Research Center opened their doors. A total of 30 volunteers from their teams showed the approximately 200 attendees the facilities where the research is carried out, as well as the rest of the spaces from which they work tirelessly in the prevention and dissemination for a future without Alzheimer’s.

**TV3 BROADCASTS THE LIFE SOUNDTRACK PROJECT WITHIN THE SENSE FICCIÓ PROGRAM**

On May 8th, the TV3 Sense Ficcio program aired a documentary about the Life Soundtrack project with the title “Music is life”. A team of journalists followed for months the different stages of the initiative and collected testimonies from students, participants and professionals to show the revitalizing effect of music on people affected by dementia.

**SOCIAL NETWORKS IN 2018**

 <p><b>42,685</b> Followers</p> <p>27,845 Likes</p> <p>950 Comments</p> <p>9,382 Shares</p>	 <p><b>5,525</b> Followers</p> <p>5,314 Retweets</p> <p>9,457 Likes</p> <p>2,697 Mentions</p>
 <p><b>523</b> Followers</p> <p>46,351 Views</p>	

**CONFERENCES AND TALKS**

*January 17th.* Informative talk in the PRBB by Dr. Nina Gramunt.

*January 23rd.* Talk by Dr. Nina Gramunt on the prevention of Alzheimer’s at the Avan center in Sabadell.

*January 30th.* 1st session of the Humanistic Dialogues of the UPF: “Is there healthy aging?”, By Dr. Jordi Camí and Dr. Nina Gramunt.

*February 8th.* Participation of Dr. Carles Falcon and Sabrina Segundo in the project “Interview to a scientist” in the PRBB.

*February 17th.* Talk about Alzheimer’s in the Barcelona FC supporters club of Torroella de Montgrí, by Glòria Mas.

*February 21st.* Talk “Music and action against Alzheimer’s”, by Dr. Nina Gramunt, at Penyafort-Montserrat College.

*March 1st.* Magisterial talk of the 30th anniversary of El Saliente, in Almeria.

*March 7th.* Inaugural lecture by Dr. Jordi Camí and Dr. Nina Gramunt of a postgraduate course at the Universitat Pompeu Fabra, in Barcelona.

*March 10th.* Masterclass in Santander, by Glòria Oliver, as part of the STEM Talent Girl program.

*March 12th.* Participation of Dr. Nina Gramunt in the Brain Week.

*March 22nd.* Workshop about the overload of the caregiver in the framework of the

monographic training program “Cuídate para cuidado”, by Dr. Sandra Poudevida, at CAP Larrard.

*April 9th.* Participation of Dr. Nina Gramunt in the round table “Aging, services, housing, energy poverty”, in the framework of the TransJus Conference “Aging, city and rights”, at the University of Barcelona.

*April 10th.* Talk by Cristina Maragall on Alzheimer’s and the work of the Foundation, as part of the program “University Accessible” of the Martín el Humano University Foundation.

*May 17th.* Talk “Prevention of Alzheimer’s, a new scientific challenge”, by Dr. Jordi Camí, in the Pabellón de los Distinguidos of the Institut Pere Mata in Reus.

*May 24th.* Talk about Alzheimer’s by Dr. Nina Gramunt within the framework of the Continuous Training Program of Pharmacy Assistants.

*May 25th.* Participation of Dr. Gonzalo Sánchez in the XI Barcelona Biennial Conference, held at CosmoCaixa.

*June 9th and 10th.* Participation in the Barcelona Science Festival of Dr. Luis Martínez and Dr. Oriol Grau.

*June 25th.* Talk “The care of the Alzheimer’s patient caregiver, the hidden sick”, by Glòria Mas, in Mataró.

*September 5th.* Participation of Cristina Maragall and Dr. Nina Gramunt in the 40th Conference of the Association

for Contemporary Iberian Studies, at the Faculty of Law of the University of Barcelona.

*September 25th.* Talk by Dr. Sandra Poudevida on the importance of psychological care to caregivers of people with Alzheimer’s, at the Sanitas Sarrià day center in Barcelona.

*September 29th.* Participation of Dr. Marc Suárez-Calvet in the European Night of the Researchers, in Barcelona.

*October 9th.* Inaugural lesson of the academic year 2018-2019 of the Pompeu Fabra University by Dr. Jordi Camí.

*October 24th.* Participation of Dr. Nina Gramunt in the “Aging, vulnerability and abuse situations” day, at the University of Barcelona.

*November 20th.* Talk about caregivers by Glòria Mas in Barberà del Vallès with Accent Social.

*November 28th.* Participation of Cristina Maragall as the main guest at the Mirada Plural breakfast, held in Madrid and organized by the agency Atrevia.

*November 30th.* Workshop on Alzheimer’s, given by Dr. Nina Gramunt at the International Winter Academy and organized by EIT Health and the University of Barcelona at CosmoCaixa.

*December 11th and 18th.* Talks by Glòria Mas on Alzheimer’s prevention and awareness in the Espai Gironès Shopping Center on the occasion of the campaign “Message to space. For a future that everyone remembers.”

**AWARDS AND DISTINCTIONS**

**Recognition of the best work co-financed by FEDER**

The construction of the new building of the Pasqual Maragall Foundation has won the second prize for the best project financed by FEDER in Spain. The Pasqual Maragall Foundation was the beneficiary of a 2016 FEDER grant managed by the Secretariat of Universities and Research of the Department of Economy and Knowledge of the Generalitat of Catalonia for an amount of 2.5 million euros in the framework of the call to select unique projects of construction of buildings for R & D infrastructures.

**Solidarity Insurance Awards**

In the 18th edition of the Solidarity Insurance Awards organized by INESE, MetLife Spain awarded the Pasqual Maragall Foundation with one of the solidarity prizes in recognition of its Alfa Study research project for the prevention of Alzheimer’s.

**Trifermed Prize 2018**

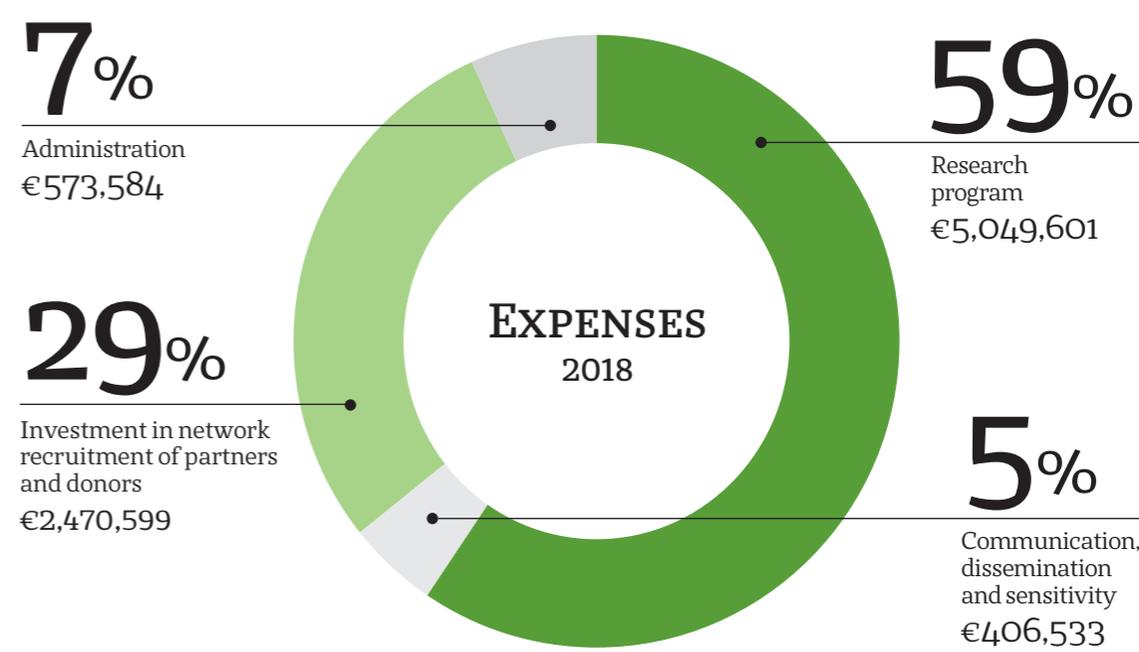
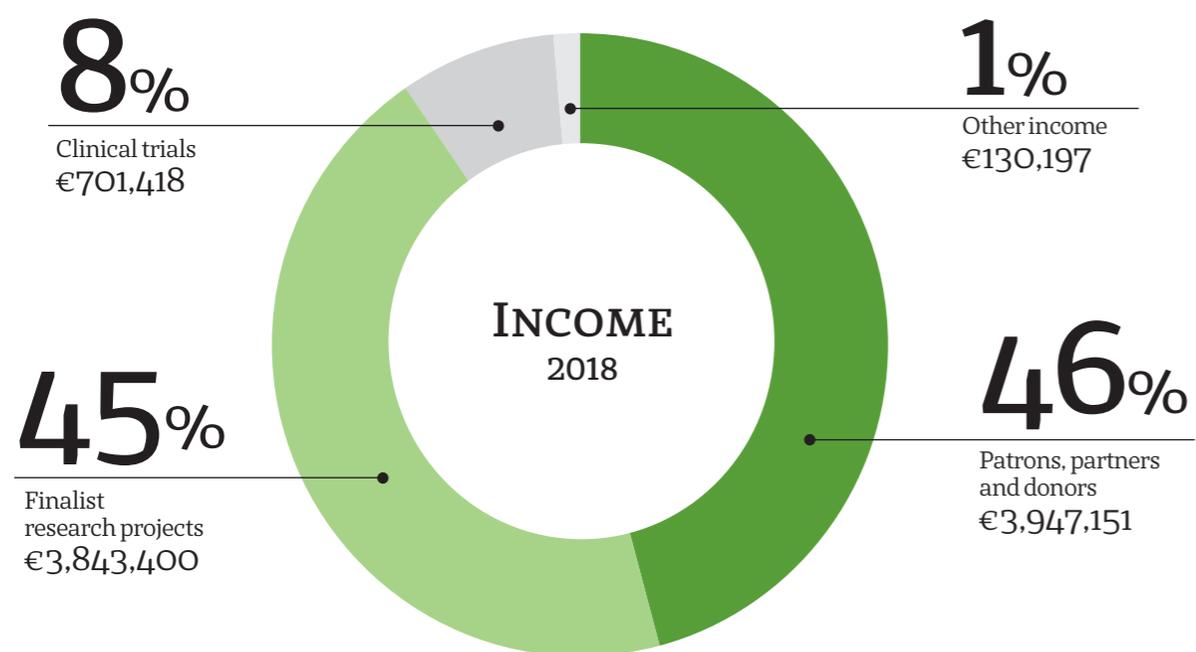
Trifermed, a consulting company specializing in business development for pharmaceutical companies, biotechnology and entities in the biomedical sector, awarded the Trifermed 2018 prize in the category of foundations to the Pasqual Maragall Foundation.

# Origin and destination of resources

ADDED DATA OF THE PASQUAL MARAGALL FOUNDATION AND ITS RESEARCH CENTER, THE BARCELONA BETA BRAIN RESEARCH CENTER

## Provisional closure of 2018. Data submitted to an annual audit of accounts.

At the Pasqual Maragall Foundation we work to achieve a future without Alzheimer's through biomedical research. To achieve this, we invest most of the resources obtained in research programs and communication and dissemination actions to increase social support for our cause. We also allocate part of the resources to attract new funds to guarantee the long-term sustainability of the ongoing scientific programs.



<b>€8,491,969</b>	<b>Current income</b>
€3,947,151	Patrons, partners and donors
€3,843,400	Finalist research projects
€701,418	Clinical trials
<b>€130,197</b>	<b>Other income</b>
€126,119	Adjustments for capital subsidies *
€4,078	Financial income *

<b>€8,500,277</b>	<b>Current expenses</b>
€5,049,601	Research program
€406,533	Communication, dissemination and sensitivity
€2,470,559	Investment in network recruitment of partners and donors
€573,584	Administration
<b>€76,119</b>	<b>Financial expenses *</b>

**€8,622,166** TOTAL REVENUES

**€8,576,397** TOTAL EXPENDITURES

\* Not included in the graphic.

\* Not included in the graphic.

# Collaborators

Our most sincere thanks to the network of **partners and donors**, as well as institutions, companies and professionals who have supported our research through contributions and collaborations. Our thanks also to all the volunteers who devote their time and help us in organizing actions and events.

## COLLABORATORS 2018: COMPANIES, ORGANIZATIONS AND PROFESSIONALS

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that this disease  
is invincible.”

**Pasqual Maragall**  
October 2007

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