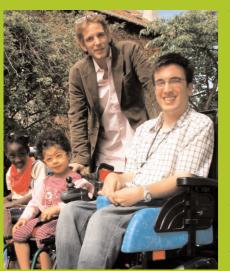
JOIN THEM TO HELP LA FONDATION MOTRICE: THE NEEDS ARE IMMENSE!



Thanks to my friend Matthieu, I have ns. I wanted to see for myself the eds of children suffering from cereal palsy and their courage and to obilize my friends and my contacts in ny place where I can speak for then nvite all of you who can dedicat me of your time or donate to join us the adventure of La Fondation otrice: there is so much to be done hank you for your commitment i wour of these children!

ndrea CASIRAGHI, sponsor of La ondation Motrice.

IF YOU WISH TO **HELP US**

please contact **Marie Perin at** Friends of La **Fondation Motrice Association**

by phone +33 1 45 54 03 03

by email at secretariat @lafondationmotrice.org



Myriam, Lucie and their team at the start of the 2011 Heroes Race

Finding a physio, a place in the neighbourhood school, informing the teachers about cerebral palsy, making something. a choice between a regular or a special needs school: we are often left alone to face the choices that our alone to face the choices that our child's condition require, and we Our daughter Camille will soon must devote a lot of energy to find be eighteen and suffers from ceresolutions. It took me six years before bral palsy: our family is therefore I could set up a complete care envi- affected by this handicap. ronment for Lucie. Today, we still Board member of The Friends of have to answer her questions: "When La Fondation Motrice Associawill my feet be straight? Why do my tion, I launched four years ago Les legs hurt?" That is why we are inte- Dîners de la Parfumerie (Fragrance rested in research on brain treatment Industry Dinners) for La Fondation but also on pain and on sleep pro- Motrice, taking advantage of my blems that have had such an impact professional network within the peron our life. Studies on screening are fume and cosmetics industry. These also essential as there are more and vearly dinners welcome about 200 more very premature babies like our actors from this sector, under the daughter. For all these reasons, I suppatronage of Andrea Casiraghi. port La Fondation Motrice projects.

After I retired, I wanted to give some of my time to other people. Through La Fondation Motrice, I discovered cerebral palsy and I said ves" to the idea of acting for a noble and useful cause: that today CP affects one newborn

woman, mother and grandmother, I worth taking on! want to understand, prevent and do



For this, money is the key as no research is possible without funds. That is why I am today one of the foundation's Ambassadors. Our goal is to promote La Fondation Motrice and raise funds with companies and individuals. It

out of 450 is unacceptable! As a is a real challenge but one that is

Mireille Cayreyre

I wish that people from other industheir help! Myriam, Lucie's mum. tries help us promote and extend this idea and organize Bank/ Insurance, Pharmaceutical Industry,



the arrival of the 2011 Heroes Race.

Media, High-tech Dinners, etc.: research on cerebral palsy needs

Daniel Chastenet de Géry

supported





2M€ allocated

OVERCOMING THE CAUSES AND CONSEQUENCES OF CEREBRAL PALSY.

THE MOST FREQUENT MOTOR HANDICAP IN CHILDREN 1 OUT OF EVERY 450 NEWBORN IS AFFECTED.



La Fondation Motrice goals:

- promoting and supporting research and innovation in any field likely to help prevent cerebral palsy and improve the quality of life of those affected by this condition;
- improving the quality of care, promoting good practices and developing our knowledge of cerebral palsy.

Right from its inception, La Fondation Motrice has worked in the medical field, through calls for research projects subject to the assessment of its Scientific Committee. La Fondation Motrice also organizes Information and Study Days.

Furthermore, La Fondation Motrice has conducted in 2008-2009 a prospective study to gain a better understanding of the needs and expectations of both the patients and their families to be able to guide the strategic orientation of the research effort. This study, supported by the CNSA, relied mostly on multidisciplinary workshops in which participated patients and members of their families, researchers, health professionals and carers.

Based on the study results, La Fondation Motrice has prioritized the following fields of action:

- Pain, as it is a major problem for CP patients (cf. inside pages);
- A holistic view of the individual and its complexity, taking into account the role of environment. This is where PACE plays a part, an innovative program implemented with the support of SODIAAL (cf. inside pages). Research on patient's life as they grow up, and particularly when they reach adulthood, is underway within this program;
- Prevention of brain damage.

La Fondation Motrice is supported by FFAIMC, the French federation of cerebral palsy associations. → FOUNDERS **APETREIMC** CDI PASSER'AILE APETREIMC **SESEP**



LA FONDATION MOTRICE, research into Cerebral Palsy

67 rue Vergniaud 75013 PARIS - tel : + 33 1 45 54 03 03 secretariat@lafondationmotrice.org - www.lafondationmotrice.org Fondation Reconnue d'Utilité Publique par décret du 4 juillet 2006 LA FONDATION Président : Dr Alain Chatelin - Vice-Présidenté : Dr Lucie Hertz-Pannier MOTRICE Conseil Scientifique : Pr A.-L. Benabid, Dr C. Bérard, Dr C. Cans, Pr G. Cioni, Dr P. Gressens, Pr P. Huppi, M. E. Jacotot, Pr I. Krägeloh-Mann, M. M. Le Métayer, Pr G. Pons, Dr B. Zalc





















Dear friends.

La Fondation Motrice for research into Cerebral Palsy is focused on the from cerebral palsy.

contributed to make cerebral palsy a major subject for dedicated teams of researchers.

Europe have been financially supported through La Fondation Motrice. About 60 articles have been publinals to demonstrate how to reach a results! better understanding of brain Today, we are looking to the future. damage, promote early treatment, Preventing brain damages, relieving reduce abnormal movements or deve- the pain, improving motor and coglop technical aids.

THE FUTURE IS **IN YOUR HANDS**

voungsters, their families and their helpers have been able to talk with researchers to highlight the most urgent expectations. We have learned, through this dialogue, what it means to give everyone a place and to most frequent motor handicap in see in each individual what he or she children as 1 child out of 450 suffers is able to do instead of what he or she cannot do.

All of you who support our action In 5 years, La Fondation Motrice has can be proud of what has been accomplished.

This anniversary is also an opportu-Thanks to your help, 45 projects in nity to thank those who joined and in this beautiful adventure and to supported us in this adventure.

We are deeply grateful for your wonderful contribution: you have Thank you. shed in international scientific jour- all greatly contributed to our

nitive autonomy, and facilitating

daily life: those are our goals, but until when will we have the means to attain them?

The resources contributed by our founding members to set up La Fondation Motrice have all been

For the first time, also, handicapped Donors and friends, today, the key to our future is in your hands. Your donations, your commitment will determine our success: what La Fondation Motrice will be able to do depends on you. Each of you can relay this message and each of you will respond as you will see fit.

> La Fondation Motrice brings together handicapped persons, researchers and donors around shared goals. Everyone has a place in this project and everyone is part of our future: we invite you to participate share its success!

Alain Chatelin, President





BRAIN DAMAGE IN NEWBORNS

PREVENTION OF BRAIN DAMAGE

Research on brain cells and molecules involved in brain

Vincent DEGOS, Pierre GRESSENS. U676, Physiopathology and neuroprotection against brain damage during pregnancy. INSERM, Université Paris Diderot - Robert Debré Hospital, Paris.

vering new treatments.

and molecules play an important part brain damage in newborns. in brain damage, to be able to target mechanisms that would allow to block off the damage process.

This research, supported by La Fondation Motrice in 2005 and 2006, has in particular identified inflammatory mechanisms playing an important part in newborn brain damage and has put in evidence the neuroprotection provided by some glutamate receptors blockage.

Our laboratory's principal activity is Another research axis is dedicated not focusing on brain illnesses and diseato preventing but to treating damages ses in children, with a view to disco- when prevention is too late and they have already occurred. In this case, The most important illnesses are the question is whether it is possible those occurring at birth and concern to replace the missing brain cells We mainly premature babies. To this day, therefore also work as well on cell no treatment exists for these illnesses. therapies based in particular on stem We are trying to identify which cells cells to be able, in the future, to repair





Research is making progress!

Based on studies of animals, in particular in Pierre Gressens's laboratory, a clinical test to assess neuprotecting effects of melatonin in premature newborn has begun in London, in collaboration with this laboratory.





IN BABIES

EARLY CARE THROUGH SCREENING

Timplementation of assessment tools for cognitive and perception problems: PACE program (Perception Action Cognition Environment).

into account all interactions with to select and set up appropriate and his/her environment, such is the efficient solutions to treat diagnosed challenge of PACE program, that problems and provide the parents considers motor, cognition and per- with reliable information to help ception problems as closely related them deal with the situation. and reviews their connexion to cerebral palsy.

Within this framework, several studies aim to implement assessment and screening tools for these problems in children and in particular in babies. The first year after birth requires a lot of vigilance as it is

To see a person as a whole, taking during this period that it is possible

PACE is built on a network of European experts created by La Fondation Motrice and coordinated by Pr. Giovanni Cioni.

The program is supported by SODIAAL, the French leader in dairy products.

5 YEARS of research **45** PROJECTS supported extracts

PAIN IN CHILDREN

UNDERSTANDING AND HANDLING THE PAIN IN ORDER TO IMPROVE THE QUALITY OF LIFE, NOW AND IN THE FUTURE.

Creation of a pain observatory in children and

Professor Olivier REMY-NERIS, in charge of Physical and Rehabilitation Medicine, CHU Brest (France)

The phenomena of pain in children quency of spontaneous pain; and teenagers are often unrecognized - analyse the link between pain and and in France we do not have enough severity level of CP; studies regarding this issue.

Observatory, our main goal is to and parents' reaction when their assess the frequency (i.e. the number child is in pain. of affected persons) of pain within The Observatory, which will rely on this population of children and teen- pain assessment by the children, their

Fondation Motrice has called on a ding of pain and therefore give us group of experts from various fields some directions to mitigate it. specialising in Physical and Rehabilitation Medicine, pain, neuropediatricians, psychologists and physiotherapists.

In particular, we aim to

- assess pain frequency during daily life movements as well as the fre-

- describe how pain is treated With the creation of a Pain through remedies or other means,
- parents and health professionals, will To implement this project, La provide us with a better understan-









ince I had the operation on

educed and I take fewer reme

ies. Before the operation, my

knee was very painful at the end

of the day, or after I had a sport

parents were with me. That was

Researching pain linked to orthopaedic complications.

Dr. Isabelle POIROT-HODGKINSON, specialist in functional rehabilitation for children, Escale hospital, Lyon (France)

not yet fully recognized.

term study covering a wide field: during influence their hip problems.

Children with cerebral palsy and in par- 10 years, we will follow 385 children This study should provide us with a ticular those who are able to walk have between the age of 4 to 1 (160 were better understanding of the different a high risk of hip dislocation and sco- already registered on the 1st of factors occurring during this period liosis likely to cause a lot of pain. The November 2011) and observe the evo- that may cause pain and it will give us causes and mechanisms of such pain are lution of pain, posture, hip deformameans to improve therapeutic treat-Therefore we have launched a long mented and every factor likely to rehabilitation) as well as prevention.

tion, rehabilitation programmes implement (through remedies, surgery or

IN TEENAGERS

TO ACCOMPANY THE PASSAGE TO ADULTHOOD.

A study on social support and the quality of life of teenagers suffering from cerebral

Dr. Catherine ARNAUD, UMR Inserm U1027, Paul Sabatier University, Toulouse

We still have a very limited know- wider and better autonomy. ledge of how teenagers affected by Our study aims to assess the part goal is to describe subjective expe-CP live with their handicap and face played by social support, be it from riences as well as the objective health the difficulties they encounter in family members or friends, to of this population that is not well their social interactions, their life at improve CP teenagers' quality of life known. Measuring the importance school and the kind of jobs open to and to determine the extent to which of social support, in particular from

Early studies show that at that age, reflects their capacity to adapt and well-being would be useful to health and wellbeing seem to be be autonomous. We focus in particu- accompany teenagers with CP and more dependent on social and envi- lar on support from the family and thus improve the quality of their ronmental factors than on medical the kind of help supplied by siblings, lives. care. It also seems that social support as the case may be. helps reduce the perceived stress and To this end, we observe a group of brings about a global improvement 60 teenagers aged 13 to 17 and we of physical and mental health and a conduct interviews with the

they require such support, as it the family, as a factor of perceived

families of at least half of them. Our



IN ADULTS

IMPROVING LIFE AND AUTONOMY BY **REDUCING RELATED PROBLEMS AND** SUPPLYING TECHNICAL AIDS.

A study on deep brain stimulation impact on abnormal movements in some forms of CP.

Pr. Marie VIDAILHET. CRICM UMPC/INSERM UMR S975 CNRS UMR7225, Neurolygy and Care, La Pitié-Salpêtrière Hospital, Paris

Preliminary research has shown that extent the life of patients. To this deep brain stimulation at high fre- day, the treatment of these problems quencies in particular of the inner was not very effective. pallidum, one of the ganglia at the In this pilot study, we have been able

that can induce joints and bone term. deformations and hinder to a large

base of the brain, helped to reduce to demonstrate that stimulating the limbs' abnormal movements without inner pallidum can also be used undesired side effects, in distonic effectively on patients with cerebral palsy to improve their quality of live Cerebral palsy resulting from brain by reducing their handicap and pain. damage often causes distonic move- This new approach will need validaments of the limbs, body and face tion on a larger scale and longer



'he way to a better life is to event the "CP Way of Life": o feel good as a handicapped erson, discover one's ithout "imitating" at all cost

luals. This implies a positive accompaniment, a supportive and reassuring social and medical environment as well as constant care to reduce the pains.

Assessment of aids to communication.

Philippe BOISSIERE, Institut de Recherche en Informatique (Institute of IT Research), Toulouse.

Several systems to facilitate communication have been developed recently, based on different techniques or interfaces, but they have not been subjected to comparative assessments.

Measuring the quality of this kind of aids in relation with specific needs of CP patients unable to speak would open the way to the development of more efficient software solutions.

This project is continuing today with PALLIACOM program, financed by Agence Nationale pour la Recherche (National Agency for Research).

