

## 1. Report on Research Projects and Clinical Trials of last five years

### 1. A) Relevant clinical trials of last 5 years

#### Universitätsklinikum Tübingen

Title	Objective	Multi- or monosite	Sponsor
- A phase I/II, multicenter, open-label, controlled dose escalation study of HGT-1110 administered intrathecally in children with metachromatic Leukodystrophy	To determine the safety of ascending doses of HGT-1110 administered by intrathecal (IT) injection for 40 weeks in children with metachromatic leukodystrophy (MLD). <ul style="list-style-type: none"> <li>To evaluate the clinical activity of IT administration of HGT-1110 on gross motor function</li> <li>To assess single and repeated-dose pharmacokinetics of HGT-1110 in serum</li> <li>To assess concentrations of HGT-1110 in cerebrospinal fluid (CSF)</li> </ul>	Multisite	Shire 2013-2016
Dysport RU	Evaluation of Efficacy and Safety of Dysport and Dysport RU to Placebo of Subjects with CD	Multisite	IPSEN GROUP
TOWER	Evaluation of Efficacy and Safety of Xeomin for treatment of spasticity	Multisite	MERZ
CD-NIS-longterm	Evaluation of the treatment effect of Dysport in CD after two cycles in naïve and pre-treated patients	Multisite	IPSEN GROUP
Interest in CD 2	Evaluation of longterm response to Botulinumtoxin type A in subjects suffering from idiopathic CD-Pharmaco-economic impact	Multisite	IPSEN GROUP
Botox Prophylaxis in Chronic Migraine	Observational Study in selected European Countries	Multisite	ALLERGAN
AS-NIS early BIRD	Investigation of Effectiveness of Botulinumtoxin A (Dysport) Injections In Patients suffering from Post-stroke arm s with respect to early, medium or late start of treatment	Multisite	IPSEN GROUP
BoTN for quality of life in different dystonia syndromes	Quality of life in different dystonia syndromes and post-stroke spasticity before and after botulinumtoxin treatment	Multisite	MERZ
Multisyn	Multimodal imaging of rare Synucleinopathies	Multi	EU & Affiris
Mito-PD	Evaluation der mitochondrialen endo-Phänotypen der Parkinson-Krankheit	Multi	BMBF
Promesa	Study to investigate the effect of EGCG supplementantation on disease	Multi	LMU München

	progression of patients with Multiple System Atrophy (MSA)		
MIGAP	Markers in GBA-associated PD. Verlaufsuntersuchung des DZNE zur Detektion von Biomarkern, welche Unterschiede zwischen Parkinson Patienten mit und ohne GBA-Mutation, sowie asymptomatischen Gesunden mit und ohne GBA-Mutation aufzeigen soll.	Multi	DZNE
RIVA	Exelon at dementing syndrome of patients with supranuclear palsy	Mono	Novartis GmbH & Uniklinik Tübingen
PSP-Noscira	Study to evaluate the safety, tolerability and efficacy of two different oral doses of NP031112, a GSKInhibitor, versus placebo in the Treatment of patients with mild to moderate progressive supranuclear palsy	Multi	Noscira
MSA-RAS 202	Clinical Trial to Assess the Efficacy, Safety, and Tolerability of Rasagiline Mesylate 1 mg in Patients with Multiple System Atrophy of the Parkinsonian Subtype (MSA-P)	Multi	TEVA
EPI589-15-002	Safety and Biomarker Study of EPI-589 in Mitochondrial Subtype and Idiopathic Parkinson's Disease Subjects	Multi	Edison

### Medizinische Universität Innsbruck

Title	Objective	Multi- or monosite	Sponsor
Safety and Tolerability of Carbamylated Erythropoietin in Friedreich's Ataxia	Safety and tolerability of CEPO in FRDA (Phase II)	Multi-center, CRT	Lundbeck
Randomisierte, placebokontrollierte Doppelblindstudie der Phase III zur Wirksamkeit, Sicherheit und Verträglichkeit von Idebenone bei der Behandlung von Patienten mit Friedreich-Ataxie. (MICONOS)	Wirksamkeit, Sicherheit und Verträglichkeit von Idebenone bei der Behandlung von Patienten mit Friedreich-Ataxie (Phase III).	Multi-center	Santhera
Eine offene Verlängerungsstudie der Phase-III zur Erhebung von Langzeitdaten zur Sicherheit und Verträglichkeit von Idebenone bei der Behandlung von Patienten mit Friedreich-Ataxie (FRDA)	Langzeitdaten zur Sicherheit und Verträglichkeit von Idebenone bei der Behandlung von Patienten mit Friedreich-Ataxie (FRDA)	Multi-center	Santhera

### Charles University Prague

Title	Objective	Multi- or monosite	Sponsor
A Multicenter, Multinational, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group Study to Evaluate the Efficacy and Safety of Laquinimod (0.5, 1.0 and 1.5 mg/day) as Treatment in Patients with Huntington's Disease	Phase II (2015-)	multisite	Teva
An intranational observational Study on long term response to BTX injections in subjects suffering from idiopathic cervical dystonia	Phase III (2014 -)	Intranational Multisite	IPSEN PHARMA

### University Hospital Bordeaux

Title	Objective	Multi- or monosite	Sponsor
BIOAMS	Fluid biomarker development	Monosite	University Hospital Bordeaux
BIOPARK	Fluid biomarker development	Multisite	French Health Ministry
COGAMS	Assessment of cognition	Monosite	University Hospital Bordeaux
DOPS-AMS	Treatment trial	Multisite	French Health Ministry
AZD3241	Treatment trial	Multisite	Astra Zeneca
SYMPATH	Treatment trial	Multisite	FP-7
MULTIPAMS	Imaging biomarker development	Monosite	INSERM (Institut National de la Santé et de la Recherche Médicale) – DGOS (French Health Ministry)
MSA-FLUOXETINE	Treatment trial	Multisite	French Health Ministry
MSA-DOUL	Pathophysiology of pain in MSA	Monosite	Fondation de France
UROPAKTENS	Treatment trial	Multisite	French Health Ministry
SEROTAMS	Imaging of serotonin system	Multisite	French Health Ministry
HYPOSOMPARK	Pathophysiology of postprandial OH	Multisite	French Health Ministry
MSA rasagiline	Treatment trial	Multisite	TEVA Pharma

### Reference Centre for Rare Diseases 'Neurogenetics', Pitié-Salpêtrière Hospital

Title	Objective	Multi- or monosite	Sponsor
Evolution of albumin on AOA1 patients supplemented with Coenzyme Q10_ AOA1	To compare the evolution of 12-months CoQ10 supplementation with that of placebo on AOA1 patients' albumin level	Multi -site	AP-HP
Therapeutic Metabolic	To study the efficacy of three candidate	Monosite	COSSEC,

Intervention in Patients With Spastic Paraplegia SPG5_SPA-M	molecules in order to decrease the production of oxysterols by reducing the synthesis of cholesterol and/or regulate the production of bile acids and/or enabling neuroprotective action within the motor neuron.		Carnot, ASL
Phase II Open Label Study Using Triheptanoin in Patients With Glucose Type 1 Transporter Deficiency_GLUTHEP	To study the efficacy of triheptanoin oil in patients with GLUT1 deficiency syndrome.	Monosite	Ultragenyx
Triheptanoin Treatment Trial for Patients With Adult Polyglucosan Body Disease_GLUCOHEP	To determine if triheptanoin is an effective treatment for the symptoms of Adult Polyglucosan Body Disease.	Multisite	Ultragenyx
SPIDY 3 Pallidal and additional target (thalamus or sub-thalamic nucleus) in dystonia	To determine the effect of additional target in Complement with "classical " pallidal DBS (deep brain stimulation) in dystonia	Multisite	PHRC
<a href="#">A randomized, controlled, double-blind, crossover trial of zonisamide in myoclonus-dystonia.</a> (EPSILON-ZETA)	To determine the beneficial effect of zonisamide On myoclonus and dystonia in myoclonus-dystonia Double blind randomized placebo controlled, Cross over pharmacological study	Monosite	PHRC

#### National Reference Center For Huntington's Disease

Title	Objective	Multi- or monosite	Sponsor
Multicentre trial of treatment of Huntington's disease by cysteamine ( CYST HD)	neuroprotection	Multisite	DRC ANGERS
Extension of the multicentric intracerebral grafting trial in HD	Long lasting flow-up of transplanted patients using fetal cells	Multisite	APHP
NEURO HD	Comparison of neuroleptics	Multisite	APHP
PRIDE HD	Pridopidine efficacy	Multisite	TEVA
A multi-centre, multi-national prospective observational imaging biomarker study in early stage Huntington's disease (HD) patients to assess imaging techniques and parameters able to support efficacy studies with SEN0014196 in HD patients during Phase II and III studies	neuroprotection	Multisite	FP7

#### Universitätsklinikum Bonn

Title	Objective	Multi- or monosite	Sponsor
A phase III double-blind, randomised, placebo-controlled study of the efficacy, safety and	see title	multicentre	Santhera

tolerability of idebenone in the treatment of FRDA (MICONOS)			
Randomised, double-blind, placebo-controlled study of Lu AA24493 (CEPO) in patients with FRDA	see title	multicentre	Lundbeck
Effects of acetyl-DL-leucine on cerebellar ataxia - a multinational, multicenter, randomized, double-blind, placebo-controlled, 2-way crossover phase III trial (ALCAT)	see title	multicentre	University of Munich

### Institute of Neurogenetics, University of Lübeck

Title	Objective	Multi- or monosite	Sponsor
Medivation Dimebon Extension Studie	treatment of Huntington disease	multi	Medivation
Double blind, randomised, prospective placebo controlled parallel group phase III study to investigate the effect of EGCG supplementation on disease progression of patients with multiple system atrophy (PROMESA)	treatment of MSA	multi	Investigator initiated
A phase 2, randomized, placebo controlled double blind proof-of-concept study of the efficacy and safety of PF-02545920 in subjects with Huntington's disease	treatment of Huntington disease	multi	Pfizer
A dose escalating, proof-of-concept, phase IIa study to investigate the safety and tolerability, the pharmacokinetic and the pharmacodynamic of BN82451B, administered twice daily over 4 weeks, in male patients with Huntington's disease	treatment of Huntington disease	multi	Ipsen
Mito-PD: An omics-based strategy using coenzyme Q10 in patients with Parkinson's disease: Concept evaluation in a double-blind randomized placebo-controlled parallel group trial	Treatment of PD	multi	BMBF

Title	Objective	Multi-/monosite	Sponsor
A Two-arm Efficacy and Safety Study of Deferiprone in Patients With Pantothenate Kinase-associated Neurodegeneration (PKAN)	To test the efficacy of deferiprone to lower brain iron and to improve the clinical phenotype in PKAN (results in early 2017)	multicentric (as Principal Investigator)	EU-FP7
Long-term Deferiprone Treatment in Patients With Pantothenate Kinase-Associated Neurodegeneration (TIRCON-EXT)	Extension study of the above	multicentric (as Principal Investigator)	ApoPharma
ALCAT	(results in 2017)	multicentric (as Investigator)	BMBF
Safety and tolerability of carbamylated erythropoietin in Friedreich's ataxia	published (Boesch et al, 2014)	multicentric (as Investigator)	H. Lundbeck A/S
A randomized trial of 4-aminopyridine in EA2 and related familial episodic ataxias	published (Strupp et al, 2011)	monocentric (as Investigator)	

### University Hospitals Leuven

Title	Objective	Multi- or monosite	Sponsor
A Randomized, Double-Blind, Placebo-Controlled, Dose-Escalating, Phase 2a Safety, Tolerability, and Pharmacodynamic Study of Two Doses of an Histone Deacetylase Inhibitor (FRM-0334) in Subjects with Prodromal to Moderate Frontotemporal Dementia with Granulin Mutation Eudract 2014-001489-85	Evaluate the safety and tolerability of 2 fixed doses of FRM-0334 (300 and 500 mg daily in 2 sequential periods) over 28 days in subjects with prodromal to moderate FTD-GRN  • Assess the PD effects of FRM-0334 on the change from baseline in plasma concentrations of PGRN after 28 days	Multisite	Forum Pharmaceuticals
<sup>18</sup> F-THK5351 tau PET imaging in Alzheimer's disease, frontotemporal degeneration and healthy older adults EudraCT Number: 2014-002976-10	To investigate the novel tau PET ligand <sup>18</sup> F-THK5351. To determine the brain imaging metrics of the novel tau PET ligand in clinically probable AD and age-matched controls and its capacity to differentiate between AD and healthy controls and between different subtypes of primary progressive aphasia. To interpret the in vivo results in the light of ex vivo binding characteristics of THK5351 for tau aggregates in AD and FTLN subtypes postmortem	Monocentric	KU Leuven
Randomized comparison of integrated versus consecutive	To evaluate the effectiveness and safety of integrated	Multisite	Jacques and Gloria Gossweiler

dual task practice in Parkinson's disease: the DUALITY trial. Clinicaltrials.gov <a href="https://clinicaltrials.gov/ct2/show/study/NCT01375413">NCT01375413</a> .	versus consecutive task training in patients with Parkinson's disease		Foundation
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### Semmelweis University Budapest

Title	Objective	Multi- or monosite	Sponsor
A Multinational Multicentre Randomized Double-Blind Placebo- Controlled Parallel Group Study to Assess the Efficacy Tolerability and Safety of Talampanel in Subjects with Amyotrophic Lateral Sclerosis ALS.	ALS	Multicentre	TEVA
Efficacy and safety of a normal human immunoglobulin product for intravenous administration in the treatment of polymyositis and dermatomyositis prospective, randomised, double blind, placebo controlled study	Polymyositis, dermatomyositis	Multicentre	Orfagen
Comparison of QUTENZA and pregabalin in painful peripheral neuropathy (ELEVATE)	Painful peripheral neuropathy	Multicentre	Astellas Pharma
Multicenter, double-blind placebo controlled trial to analyze the effectivity and tolerability of BAF312 (CL2-78989-010 and CBAF312X2206)	Polymyositis	Multicentre	Novartis Pharma
Randomized double-blind proof-of-concept effectivity study with subcutaneous gevokizumab in polymyositis or dermatomyositis	Polymyositis/Dermatomyositis	Multicentre	Servier

### Istituto Neurologico Carlo Besta, Milan

Title	Objective	Multi- or monosite	Sponsor
Randomized, Double-Blind, Placebo Controlled, Parallel-Group Study to Evaluate the Safety and Clinical Effect of Laquinimod (0.5, 1.0 and 1.5 mg/day) as Treatment in Patients with Huntington's Disease	Evaluate the Safety and Clinical Effect	Multicenter, Multinational	TEVA
A Phase IIa Study in Huntington's Disease Patients to Determine the Safety and Tolerability of SEN0014196 (EudraCT 2011-	Determine the Safety and Tolerability	Multicenter, Multinational	SIENA-BIOTECH

001131-23)			
Randomised, double blind, placebo controlled study of LuAA24493 in patients with Friedreich's Ataxia to evaluate safety and tolerability and to explore efficacy. (EudraCT No. 2008-003662-2)	Evaluate safety and tolerability and to explore efficacy	Multicenter, Multinational	LUNDBECK
A Double-Blind, Placebo-Controlled, Randomized, Parallel Group, 12-Month Safety and Efficacy Trial of Leuco-methylthioninium bis (hydromethanesulfonate) in Subjects with Behavioral Variant Frontotemporal Dementia (bvFTD) STUDY CODE: TRx-237-007	Evaluate safety and tolerability and to explore efficacy	Multicenter, International	TauRx Therapeutics LTD, Singapore (2014-2015)
A Multi-Center, Open-Label Study Evaluating the Safety, Tolerability, and Efficacy of Pridopidine in Patients with Huntington's Disease (Open PRIDE-HD)	Evaluate the Clinical Effect and safety	Multicenter, Multinational	TEVA
A randomized, double-blind, placebo-controlled trial of deferiprone in patients with pantothenate kinase-associated neurodegeneration (PKAN)	To explore efficacy	Multicenter, International (4 countries)	ApoPharma EudraCT number: 2012-000845-11
Long-term safety and efficacy study of deferiprone in patients with pantothenate kinase-associated neurodegeneration (PKAN) 4 countries	Evaluate safety and tolerability	Multicenter, International (4 countries)	ApoPharma EudraCT No.2014-001427-79

#### Bambino Gesù Children's Research, Rome

Title	Objective	Multi- or monosite	Sponsor
Iron-related MRI images in patients with pantothenate kinase-associated neurodegeneration (PKAN) treated with deferiprone: results of a phase II pilot trial	Reduction of iron detected by MRI in patients treated by deferiprone	Multi (2 sites)	No profit

#### University Medical Center Groningen

Title	Objective	Multi- or monosite	Sponsor
Ketogenic diet in GOSR2 mutations	To study effectiveness ketoenic diet in progressive myoclonus ataxia	mono	Internal grant
Citalopram trial in dystonia	To study the effect of SSRI on dystonia	multi	Internal grant University
Physiotherapy trial in dystonia	To study the effect of physiotherapy in dystonia	multi	Jacques and Gloria Gossweiler Foundation & Fonds Nuts-Ohra & Stichting wetenschapsfonds dystonie



			vereniging
<u>T</u> reating <u>I</u> ron <u>R</u> elated <u>C</u> hildhood <u>O</u> nset <u>N</u> euro-degeneration	<u>T</u> reating <u>I</u> ron <u>R</u> elated <u>C</u> hildhood <u>O</u> nset <u>N</u> eurodegeneration	Multi TIRCON	EU KP7 Health
Registry / Enroll	To study prospectively the clinical progression of Huntington's disease	Multi	European Huntington's Disease Network (EHDN)

#### Radboud University Medical Center, Nijmegen, The Netherlands

Title	Objective	Multi- or monosite	Sponsor
ALCAT	Effect of leucine in ataxia	Multisite	Univ. München
Dystonia	Effect of physiotherapy in cervical dystonia	Multisite	School of Amsterdam, Dutch Dystonia Society, Prinses Beatrix Fonds
Functional effects of botulinum toxin in the calf muscles of hereditary spastic paraplegia (Feboch-I)	Understanding the effects of botulinum toxin injections on calf muscle strength, spasticity, dynamic balance and gait, with emphasis on the sagittal plane.	Monosite	Ipsen
Functional effects of botulinum toxin in the hip adductors of hereditary spastic paraplegia (Feboch-II)	Understanding the effects of botulinum toxin injections on hip adductor strength, spasticity, dynamic balance and gait, with emphasis on the frontal plane.	Monosite	Merz
Sjogren-Larsson Syndrome: effects of Zileuton	Effects of Zileuton in SLS	Monosite	Radboudumc / Metakids

#### Pitié-Salpêtrière hospital, Paris, France, Reference center for rare dementias

Title	Objective	Multi- or monosite	Sponsor
<b>PIVOINE FRM-0334-002</b>	Treatment of FTD patients carrying PGRN mutations	International, multisite	Industrial (FORUM)
<b>STIM-LANG</b>	Evaluation of TMS in patients with FTD, PSP and PPA	Monosite	<i>eye-brain</i>

#### Vall Hebron University Hospital

Title	Objective	Multi- or monosite	Sponsor
Multicentric, open, expanded access study for the use of RAD001, in patients with subependymal giant-cell astrocitoma (SEGA) associated with tuberous sclerosis complex (TSC). (CRAD001-mic02)	To evaluate safety of RAD001 in patients with TSC and associated SEGA	Multisite	Novartis Pharma
A disease international registry to collect data on manifestations, interventions and	To learn about natural history and	Multisite	Novartis Pharma

outcome in patients with TSC –TOSCA study (CRAD001-mic03)	Intervention outcomed in a TSC cohort		
Intravenous immunoglobulin for preparing myasthenia gravis patients for thymectomy and other surgical procedures preventing myasthenic crisis. (MG2012PREP) EudraCT # 2012-001544-21. PI: J.Gámez	IGIV for preparing myasthenia gravis patients for thymectomy and other surgical procedures preventing myasthenic crisis.	Multisite	CSL Behring LLC
Multicentric, double blind, randomised, placebo-controlled study of the efficacy and safety of Dexpramipexol in ALS subjects. EMPOWER study.	To evaluate the efficacy, compared to placebo, of a 12-month oral administration of dexpramipexol 150mg (twice a day) in patients with ALS	Multisite	Biogen Idec Inc.
Estudio de extensión, multicéntrico y abierto, para evaluar la seguridad y la eficacia a largo plazo de dexpramipexol (BIIB050) en sujetos con esclerosis lateral amiotrófica. Estudio ENVISION.	Evaluar el perfil de seguridad a largo plazo del dexpramipexol en 850 pacientes con ELA que han finalizado el estudio CL211 o el estudio 223AS302.	Multisite	Biogen Idec Research Ltd
Estudio prospectivo, Fase II, multicéntrico, randomizado, doble ciego, controlado con placebo, de grupos paralelos para comparar la eficacia y seguridad de masitinib versus placebo en el tratamiento de pacientes con esclerosis lateral amiotrófica (ELA).	Evaluar la eficacia de masitinib en pacientes de 18-80 años con ELA en tratamiento con riluzol.	Multisite	AB SCIENCE
Estudio de fase II/III, aleatorizado, doble ciego y controlado con placebo para evaluar la eficacia y la seguridad de ISIS 420915 en pacientes con polineuropatía amiloide familiar (Familial Amyloid Polyneuropathy, FAP)	Evaluar la eficacia de ISIS 420915 en pacientes con FAP en fase 1-2 que pueden haber recibido tratamiento con tafamidis	Multisite	Ionis Pharmaceuticals, Inc
Estudio de extensión abierto y multicéntrico para evaluar la seguridad y eficacia a largo plazo de IgPro20 como tratamiento de mantenimiento de la polineuropatía desmielinizante inflamatoria crónica (CIDP), en pacientes que hayan completado el estudio IgPro20_3003.	Evaluar la seguridad de IgPro20 en pacientes con PDIC que han participado en el ensayo IgPro20_30 03 (el 44/2012 en nuestro centro).	Multisite	CSL Behring GmbH
Estudio de SOM0226 en pacientes con polineuropatía amiloide familiar (FAP) y portadores asintomáticos para evaluar la estabilización de la proteína TTR.	Evaluar la eficacia de SOM0226 en pacientes con FAP y V30M  TTR mutado asintomáticos o en estadio 1-2 y en voluntarios sanos con TTR	Monosite	SOM Innovation Biotech SL (SOM Biotech)

	no mutado.		
Ensayo de extensión, abierto, de fase III de ECU-MG-301 para evaluar la seguridad y la eficacia de Eculizumab en sujetos con miastenia gravis generalizada (MGg) resistente al tratamiento.	Evaluar la seguridad de eculizumab en pacientes con miastenia gravis resistente al tratamiento que participaron en el ensayo previo que se trataba de un ensayo clínico enmascarado a doble ciego y controlado con placebo	Multisite	Alexion Pharma EMEA GmbH
Estudio de extensión abierto para evaluar la seguridad y eficacia a largo plazo de ISIS 420915 en pacientes con polineuropatía amiloide familiar (PAF).	To evaluate.....	Multisite	Isis Pharmaceuticals, Inc.
A double-blind, randomised, placebo controlled study, with three treatment arms, on the efficacy and safety of two everolimus trough level ranges as a coadjuvant treatment in TSC patients suffering partial-onset refractory seizures (CRAD001m2304).	To evaluate everolimus efficacy as coadjuvant in patients with TSC with partial-onset refractory seizures and receiving AEDs	Multisite	Novartis Pharma
Nº EudrCT: 2010-018283-16 A Randomized, Double-Blind, Placebo-Controlled Phase 3 Study to Investigate the Efficacy and Safety of Progesterone in Patients with Severe Traumatic Brain Injury	Study to Investigate the Efficacy and Safety of Progesterone in Patients with Severe Traumatic Brain Injury	Multisite	Pharmaceutical Research Associates España SAU
Nº EudrCT: 2009-012338-56 An exploratory phase I study to assess safety, tolerability, pharmacodynamics and pharmacokinetics of VAS203 in patients with moderate and severe traumatic brain	Study to assess safety, tolerability, pharmacodynamics and pharmacokinetics of VAS203 in patients with moderate and severe traumatic brain injury	Multisite	Vasopharm GmbH
Nº EudrCT: 2007-005802-38 Efficacy and Safety of AP12009 in adults patients with Recurrent or refractory Anaplastic Astrocytoma (WHO grade III) as compared to standard treatment with Temozolamide or BCNU: A Randomized, Activelycontrolled, open label clinical phase III study	Efficacy and Safety of AP12009 in adults patients with Recurrent or refractory Anaplastic Astrocytoma (WHO grade III) as compared to standard treatment with Temozolamide or BCNU	Multisite	Antisense Pharma GmbH

## 1. B) Relevant research projects of last 5 years (title, funding source)

### Universitätsklinikum Tübingen

Title	Funding source
- LeukoTreat WP1 Characterizing leukodystrophies for therapies	EU funds Call identifier FP7-HEALTH-2009-single-stage
- Increasing diagnostic accuracy for Niemann Pick C by combining biochemical, genetic and imaging biomarkers	Actelion 2013-2016
COST Action: European Network for the Study of Dystonia	EC
Whole exome sequencing in patients with myoclonus dystonia	DMRF
Genetic basis of dystonia in Turkey	DFG
Genetic research in Turkish families with dystonia	MWK
Mefopa: Mendelian Forms of Parkinson's Disease	EU
MultiSyn: Multimodal Imaging of rare Synucleinopathies	EU
MitoPD: Mitochondrial endophenotypes of Parkinson's Disease	BMBF
MIGAP: Markers in GBA-associated PD (MIGAP) - early detection, progression, mechanisms, protection	DZNE
STN+SNr multicenter Trial: „Combined stimulation of the subthalamic nucleus and the substantia nigra pars reticulata for the treatment of freezing of gait. A phase IIb trial. Tübingen University; Active ( <a href="#">recruiting</a> ).	Investigator-initiated (third-party funding by Medtronic)
Early Stim: European Multicenter study on “The Effect of Deep Brain Stimulation of the Subthalamic Nucleus (STN-DBS) on Quality of Life in Comparison to Best Medical Treatment in Patients with Complicated Parkinson's Disease and Preserved Psychosocial Competence”; Completed. Published in the New England Journal of Medicine.	Investigator-initiated (third-party funding by Medtronic)
Early Stim Post Study Follow-up	Investigator-initiated (third-party funding by Medtronic)
Duodopa Study 187.3.001: A randomized, double blind, double-dummy, efficacy, safety and tolerability study of levodopa-carbidopa intestinal gel in levodopa responsive Parkinson's disease subjects. Receiving optimized treatments with Parkinson medicinal products who continue to experience persistent motor fluctuations. Published in Lancet Neurology.	Abbvie
03/2014 Combined interleaved stimulation of STN and SNr for mobility impairment related to freezing of gait: design of a randomized controlled phase IIb clinical trial, 03/2014	EKUT is coordinating center, investigator initiated trial (third-party funding by Medtronic)

### Charles University Prague

Title	Funding source
Biomarkers of progression and treatment response in neurodegenerative disorders	Ministry of Health of the Czech republic (grant nr. 15-25602A) (2015-2020)
REM sleep behavior disorder: predicting the of neurodegeneration	GAČR, 16-07879S, (2016-2018)

Effect of specific rehabilitation on gait stability in Huntingtons disease	GAUK 1888214, (2014-2016)
Speech disorders and analysis of their mechanisms in Parkinson's disease and other movement disorders.	AZV, 15-28038A, (2015-2019)
Analysis of movement disorders for the study of extrapyramidal diseases mechanisms using motion capture camera systems	AZV, 16-28119A, (2016-2019)
Diagnostic neurophysiological and laboratory markers and pathophysiological mechanisms of functional movement disorders	AZV, 16-29651A, (2016-2019)
REM sleep behavior disorder – clinical presentation, disease course and its implications	AZV, 16-28914A, , (2016-2019)
Neuropsychiatric aspects of neurodegenerative diseases	MŠMT, VZ MSM0021620849 (2007-2013)
Diagnostic markers and pathophysiological mechanisms of atypical parkinsonian syndromes	IGA MZ ČR, NT 12288-5/2011, (2011-2015)
Pathophysiology of neuropsychiatric disorders and clinical applications	MŠMT, VZ 6206094/21620816, (2005-2001)
European Network of Reference for Rare Pediatric Neurological Diseases	EU PHEA, nEUroped, (2008-2011)
Gait and balance disorders in Parkinson´s disease and atypical parkinsonism - analysis of mechanism and risk factors of falls and development of preventive neurorehabilitation programme	IGA MZ ČR, NS10336-3/2009, (2009-2011)
Pathophysiological mechanisms of neuromodulation therapy in dystonia	IGA MZ ČR, NT 12282-5/2011, /2011-2015)
Multidisciplinary approach in the diagnosis of frontotemporal lobar degenerations and tauopathies: new insights into pathogenetic mechanisms	GA MZ ČR, NT12094-5/2011, (2011-2014)
European Network and Registry for Homocystinurias and Methylation Defects	EAHC
The International Niemann-Pick Disease Registry	EAHC
Biochemistry and Cell Biology of Human Acetyl-Coenzyme A: Alpha-Glucosaminide N-Acetyltransferase – Basis for Future Therapeutic Applications in Mucopolysaccharidosis type IIIC	NS10342
Identification of the genetic and molecular basis of rare genetic disorders using novel genomic methods	NT13116
Niemann-Pick disease type C : clinical, molecular genetic, biochemical and morphological study. Development of new diagnostic and predictive algorithms	NT12239
Characterization of the first mouse model of mucopolysaccharidosis type IIIC	NT13122
Phenotype-genotype relations in lysosomal storage diseases related to beta-galactosidase deficiency	MEB060904
Progress in methods of laboratory diagnostics of inherited lysosomal neurodegenerative disorders	NT14015
Regulation of the gene expression and new approaches to the molecular diagnostics of the ornithine transcarbamylase deficiency	NR9364
New screening system of genetic defects of the de novo purines synthesis and its application in differential diagnosis of patients with psychomotor retardation of unknown etiology	LH11031
Hydrogen sulfide metabolism in homocystinurias	LD14082
Optimization of Laboratory Newborn Screening of Inherited Metabolic Disorders	NT12213

Plasma activities of intracellular enzymes in selected inborn errors of metabolism - suitability for diagnosis and for predicting responsiveness to therapy	NT14159
European Network and Registry for Homocystinurias and Methylation Defects	EAHC
The International Niemann-Pick Disease Registry	EAHC
Biochemistry and Cell Biology of Human Acetyl-Coenzyme A: Alpha-Glucosaminide N-Acetyltransferase – Basis for Future Therapeutic Applications in Mucopolysaccharidosis type IIIC	NS10342
Identification of the genetic and molecular basis of rare genetic disorders using novel genomic methods	NT13116

#### Centre of Hereditary Ataxias, Motol University Hospital, Prague, Czech Republic

Title	Funding source
Grant TA03011175 (2013-2016, TA0/TA) - Development of rehabilitation and neurology diagnostic tools for using 3D motion analysis	TAO - Technology Agency of the Czech Republic (TACR)
Grant MZCR NT 13120-4/2012 (2012-2015). Disease caused by mutations in the MECP2 gene in the Czech Republic and the influence of other genetic determinants of their phenotypic manifestations.	Ministry of Healthy CR
Developmental Program of fields of science at Charles University (PRVOUK) - P38; 2012-2015. Biological aspects of human exploration of movement.	Charles University
IGA MZ ČR: NS/100005-4 2008 – 2011 Hereditary spinocerebellar ataxia - extending molecular genetic analysis of continuous longitudinal multidisciplinary studies of patients' families	Ministry of Healthy CR
Part of the research project University Hospital Motol (2012- 2017): Neurogenetic problems spinocerebellar and neurodegenerative diseases	Ministry of Healthy CR

#### French reference Center for MSA (Toulouse and Bordeaux site)

Title	Funding source
BIOAMS	University Hospital Bordeaux
BIOPARK	French Health Ministry
COGAMS	University Hospital Bordeaux
DOPS-AMS	French Health Ministry
AZD3241	Astra Zeneca
SYMPATH	FP-7
MULTIPAMS	INSERM (Institut National de la Santé et de la Recherche Médicale) – DGOS (French Health Ministry)
MSA-FLOUXETINE	French Health Ministry
MSA-DOUL	Fondation de France
UROPARKTENS	French Health Ministry
SEROTAMS	French Health Ministry
HYPOSOMPARK	French Health Ministry
MSA rasagiline	TEVA Pharma

### Reference Centre for Rare Diseases 'Neurogenetics', Pitié-Salpêtrière Hospital

Title	Funding source
Prospective study of individuals at risk for spinocerebellar ataxia type 1, type 2, type 3 and type 6 (SCA1, SCA2, SCA3, SCA6)_ RISCA	Erare
European Friedreich's Ataxia Consortium for Translational Studies_EFACTS	FP7
Biomarkers in Autosomal Dominant Cerebellar Ataxia_ BIOSCA	PHRC
Integrated European Project on Omics Research of Rare Neuromuscular and Neurodegenerative Diseases_NEUROMICS	FP7
Polyglutamin diseases, cancers and cardiovascular diseases_MEPKA	Institut Curie
Identification of genetic, epigenetic and environmental modifiers in hereditary spastic paraplegia_MODIFSPA	VERUM
Longitudinal analysis of oral communication in Friedreich's ataxia_ORFA	AFAF
SPIDY 3 Pallidal and additional target (thalamus or sub-thalamic nucleus) in dystonia	PHRC
<a href="#">A randomized, controlled, double-blind, crossover trial of zonisamide in myoclonus-dystonia.</a>	PHRC
Consolidation of motor memory in writer's cramp patients	AMADYS
CERDYS : cerebellar control of cortical plasticity in writer's cramp	AMADYS
Gamma: implication of the cerebellum in sensori-motor adaptation in dystonia: gamma activity	AREVA
CERTRE Intrinsic signature of essential tremor in the cerebello-frontal network	APTES
Experimental therapeutics and pathophysiology in orthostatic tremor: effect of cerebellar repetitive TMS in primary orthostatic tremor: clinical, electrophysiological and MRI study	APTES
European project and mendelian forms of Parkinson disease_MEFOPA	FP7

### National Reference Center For Huntington's Disease

Title	Funding source
Neuro HD : Huntington's disease and neuroleptics - Comparisons of olanzapine , tetrabenazine and tiapride . A controlled multicenter , randomized, study	APHP, PHRC P060211
A multi-centre, multi-national prospective observational imaging biomarker study in early stage Huntington's disease (HD) patients to assess imaging techniques and parameters able to support efficacy studies with SEN0014196 in HD patients during Phase II and III studies	FP7
REGISTRY An observational study of the European Huntington Disease	EHDN
Multicentre trial of treatment of Huntington's disease by cysteamine ( CYST HD)	PHRC2004- 03bis, DRC Angers .
Imalang : language processing in HD	ANR
Extension of the multicentric intracerebral grafting trial in HD : Post-MIG-HD	PHRC
Repair HD : toward stem cell transplantation in HD	FP7
Radico cohort	French investement for the future
EcogHD ; e-cohort in Huntington's disease	AO CRC DRCD
Mettre les projets de la Salpêtrière	

PRIDE HD	TEVA
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### Universitätsklinikum Bonn

Title	Funding source
Langzeitbeobachtung dementieller Symptome und cognitiver Parameter sowie Anwendbarkeit neuer prognostischer Marker bei der Parkinson-Erkrankung (LANDSCAPE)	BMBF
Biomarkers for Alzheimer´s disease and Parkinson´s disease (BIOMARKAPD)	JPND
Integrated European Project on Omics Research of Rare Neuromuscular and Neurodegenerative Diseases (Neuromics)	FP7
Patienten ohne Diagnose: Aufbau einer Interdisziplinären Kompetenzeinheit zur Erkennung Seltener chronischer Erkrankungen	Robert-Bosch-Stiftung
IDSEM-Verbundprojekt. Integrative Datensemantik für Neurodegenerative Forschung, Teilprojekt C	BMBF
European Spinocerebellar Ataxia Type 3/Machado-Joseph Disease Initiative (ESMI)	JPND

### Institute of Neurogenetics, University of Lübeck

Title	Funding source
Project C5 "Connectivity and plasticity in cortical motor networks in Parkin gene associated parkinsonism and dopa responsive dystonia" as part of the SFB 936 "Multi-Site Communication in the Brain"	DFG, SFB 936
Dystract consortium – translational research of dystonia	BMBF
Project C5 "Modulation of the action selection and error processing networks in genetic parkinsonism using rTMS and DBS" as part of the SFB 936 (second funding period)	DFG, SFB 936
Project grant "New diagnostic approach to patients with rare diseases „Characterization of endophenotypes in focal task-specific dystonia"	UKSH Förderstiftung Dystonia Coalition, NIH
„Transcranial ultrasonographic evaluation of the basal ganglia in DYT1, DYT11 and DYT12 dystonia"	The Bachmann-Strauss Dystonia & Parkinson Foundation
„The role of endogenous Parkin and PINK1 mutations in human dopaminergic neurons"; KL1134/11-1	Deutsche Forschungsgemeinschaft
„StemBANCC; IMI Project on human induced pluripotent stem cells"	EC (FP7)
"Comprehensive Unbiased Risk factor Assessment for Genetics and Environment in Parkinson´s Disease"	BMBF
„MitoPD Mitochondrial endophenotypes of PD" 031A430B	BMBF
„Molekulare Charakterisierung von TUBB4-Mutationen"; KL1134/13-1	DFG
„Genetic risk factors of musician´s dystonia"; LO 1555/4-1	DFG
„Elucidation of the genetic cause of dystonia 4 using exome sequencing";	Bachmann Strauss Dystonia & Parkinson Foundation
„Medizinische Genetik – Von seltenen Varianten zur Krankheitsentstehung";	University of Lübeck
„Identification of targets and interactors of the DYT6-related transcription factor THAP1"; LO 1555/3-2	DFG
"Unraveling novel genetic cause in alcohol-responsive dystonia by exome sequencing" (NS065701)	Dystonia Coalition (NIH-funded)
„Identifizierung neuer Dystonie-Gene bei konsanguinen Familien"; LO 1555/8-1	DFG
Systems Medicine of Mitochondrial Parkinson's Disease	European Union's Horizon



SYSMED-PD ( <a href="http://sysmedpd.eu/">http://sysmedpd.eu/</a> )	2020 research and innovation programme under grant agreement No 668738.
mineRARE - Semantic text-mining methods to screen for rare disorders / Semantisches Textmining zur Identifikation seltener Erkrankungen (mineRARE)	In collaboration with the Friedrich-Baur-Institute, LMU München, external funding

#### Klinikum der Ludwig- Maximilians-Universität München

Title	Funding source
TIRCON (Treat Iron-Related Childhood-Onset Neurodegeneration) (as Coordinator)	EU-FP7
EFACTS (European Friedreich's Ataxia Consortium for Translational Studies) (as Co-Investigator)	EU-FP7
DESCRIBE (DZNE – Clinical Register Study of Neurodegenerative Disorders) (as Co-Investigator)	BMBF-DZNE
EOA (Early Onset Ataxias) (as Co-Investigator)	BMBF-DZNE
HSP-Net (Vernetzungsprojekt Hereditäre Spastische Spinalparalyse) (as Co-Investigator)	BMBF-DZNE
ALCAT (Effects of acetyl-DL-leucine on cerebellar ataxia trial: a multicenter, multinational, randomized, double-blind, placebo-controlled, 2-way, crossover phase III trial) (as Co-Inv.)	BMBF

#### University Hospitals Leuven

Title	Funding source
'The contribution of the medial temporal system in humans to semantic processing of words and pictures' (G092515N), PI (280,000 Euro) (PI)	Flemish Research Foundation (FWO)
May 1, 2014 - April 30, 2018: Vlaamse Impulsfinanciering voor Netwerken voor Dementie-onderzoek (2.5 million Euro, KU Leuven coordinator Rik Vandenberghe)	Agency for Research and Innovation (IWT)
Jan 2013 - Dec 2017: Strategisch Basisonderzoek agentschap voor Innovatie door Wetenschap en Technologie 'Biomarker based adaptive development in Alzheimer Disease (BioAdaptAD)' (120835), projectleider module 2 (totaal 979.720,17 Euro)	Agency for Research and Innovation (IWT)
2012-2014: Partner Hercules Large-scale Research Infrastructure 'An integrated multimodal platform for brain mapping at high spatiotemporal resolution: 3 Tesla MRI infrastructure'	Hercules Foundation
October 1, 2012 - September 30, 2016: Bijzondere Onderzoekstoelage OT/12/097: Functional segregation and integration in the cortical circuits for language and selective attention and the effects of focal lesions and cortical neurodegenerative disease. Principal Investigator (total of 450,000 Euro).	KU Leuven
January 1, 2013 – December 15, 2015: Towards an integrated drug discovery platform for tau pathogenesis	IWT
January 1, 2009 - December 31, 2012: FWO G.0660.09N Het bihemisferisch netwerk voor taal en semantisch geheugen in de intacte hersenen, bij corticale neurodegeneratie en bij corticale ischemie, Promotor Rik Vandenberghe (total of 218,315 Euro)	FWO
18F-THK5351 tau PET imaging in Alzheimer's disease, frontotemporal degeneration and healthy older adults (150,000 Euro)	Stichting Alzheimer Onderzoek
2012 – 2016: 'PET imaging of Phosphodiesterase 10A (PDE10A) in Huntington's disease, Progressive supranuclear palsy and Parkinson's disease'. Co-investigator	KU Leuven

Wim Vandenberghe.	
2013-2016: 'Mitochondrial imaging in live neurons from Parkinson's disease patients' (G.0A44.13). Co-investigator Wim Vandenberghe.	Flemish Research Foundation (FWO)
2012-2017: 'Parkinson's disease: the mitochondrial connection' (Geconcerteerde Onderzoeksactie GOA/13/017). Principal investigator Wim Vandenberghe (total amount: 900.000 €)	KU Leuven
2012-2015: 'The role of deubiquitinases in Parkin-mediated mitophagy and Parkinson's disease' (G.0583.12N). Principal investigator Wim Vandenberghe (total amount: 296.000 €)	Flemish Research Foundation (FWO)
2011-2013: 'Motor learning in Parkinson's disease: A randomized comparison of dual and single task gait practice'. Co-investigator Wim Vandenberghe.	Jacques and Gloria Gossweiler Foundation
2011 - 2014: 'Neuroplasticity in Parkinson's Disease: consolidation of motor learning and its related brain activity changes' (G.0906.11). Co-investigator Wim Vandenberghe.	Flemish Research Foundation (FWO)
2010-2013: 'In vivo study of the functional role for type 1 and 2 cannabinoid receptors in neurodegeneration' (G.0493.10N). Co-investigator Wim Vandenberghe.	Flemish Research Foundation (FWO)
2008-2011: 'Analysis of the composition and function of the parkin complex' (G.0607.08). Principal investigator Wim Vandenberghe (total amount: 84.000 €).	Flemish Research Foundation (FWO)
2015-2017: "Parkinson's Disease: Mechanisms, Biomarkers and Therapeutics". Principal investigator Wim Vandenberghe (total amount; 200.000 €).	Campaign Opening the Future (KU Leuven)

#### Istituto Neurologico Carlo Besta, Milan

Title	Funding source
Monitoring disease progression and phenotypic heterogeneity in hereditary ataxias: clinical, cognitive, neuroimaging, and neurophysiological study to identify early markers of cerebellar dysfunction in patients and presymptomatic carriers (	Italian Ministry of Health, Grant RF-2011-02347420 (CM)
An Italian study on intermediate-length polyQ-tract expansions: frequency, clinical variability, and brain morphometry of subjects at risk for late-onset neurodegenerative diseases	Italian Ministry of Health, Grant GR-2013-02357821
FP7 European Union Project "Leuko-Treat"	European Community-HEALTH-F2-2010-241622
TIRCON: Treat Iron Related Childhood Onset Neurodegeneration	European Community-(FP7/2007-2013, HEALTH-F2-2011, grant no. <a href="#">277984</a> )
GENetic Frontotemporal dementia Initiative (GENFI I)	Centres of Excellence in Neurodegeneration Grant (2012-2014)
GENetic Frontotemporal dementia Initiative (GENFI II)	Centres of Excellence in Neurodegeneration Grant (2015-ongoing)
Joint Programming Neurodegenerative Diseases: Searching for therapeutic interventions in frontotemporal dementia with C9orf72 repeat expansions in the presymptomatic stage	2015-ongoing
Phenotypic characterization of parkinsonian syndromes associated with glucocerebrosidase mutations (GR-2009-1607326)	Italian Ministry of Health, Grant GR-2009-1607326
DBS tourette Subthalamic Nucleus deep brain stimulation in Tourette's syndrome (GR-2009-1594645)	Italian Ministry of Health, Grant GR-

	2009-1594645
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### Bambino Gesù Children's Research, Rome

Title	Funding source
DRUG REPOSITIONING IN RHO-LINKED COGNITIVE IMPAIRMENT: FASUDIL AND OTHER ROCK INHIBITORS AS POTENTIAL TREATMENTS IN OPHN1 SYNDROME	Mariani Foundation
Identification of genes involved in hypomyelinating white matter disorders 2011	ELA Foundation

### VU University Medical Center, Amsterdam

Title	Funding source
Metachromatic leukodystrophy: Gallbladder abnormalities and their clinical relevance	Private gifts
Genetic causes of leukodystrophies	ZonMw TOP
Metachromatic leukodystrophies: Quantitative MRI approaches	Metakids
Vanishing white matter: natural history	

### University Medical Center Groningen

Actelion research foundation: Screening for Nieman Pieck type C among patients with dystonia; a systems diagnostics approach. 2016 €50,000 (de Koning)
Metabolic power foundation: "Unraveling psychiatric co-morbidity in dopa-responsive dystonia: is serotonin the common pathway?" 2016 €19,389 (de Koning)
Phelps Stichting: Moving forward in early onset dystonia 2015 100.000 euro (de Koning-Tijssen)
<b>Jacques and Gloria Gossweiler Foundation &amp; Fonds Nuts-Ohra:</b> Effectiveness of a standardized physical therapy program in Cervical Dystonia; a single blind randomized controlled trial. 2014 200.000 euro (de Koning-Tijssen)
ZonMW Netherlands organisation for Scientific Research, program Doelmatigheidsonderzoek Farmacotherapie Review dure geneesmiddelen. Botulinum toxintreatment in focal dystonia. 2010-2011 48.000 euro (de Koning-Tijssen)
PBF Prinses Beatrix Fonds & Stichting wetenschapsfonds dystonie vereniging DystonieNet : development of botulinum toxin evidence based guideline for cervical dystonia. 2010 120.000 euro (de Koning-Tijssen)
STW Technology society, program: Perspective - NeuroSIPE 2009. One of principal investigators project: Torticollis: Identification of cortical and spinal motor contributions in cervical dystonia 2010 1.000.000 euro (de Koning-Tijssen)
PBF Prinses Beatrix Fonds 'Genetic associations in dystonia' 2010 240.000 euro (de Koning-Tijssen)
Metakids research grant:

Movement disorders in children with inborn errors of metabolism. 2013 75.000 euro (de Koning)
EHDN Enroll funding (huntington's disease) 2014 60.000 euro (Kremer)
Prinses Beatrix Fonds The spinocerebellar ataxias: from gene identification to protein function 2011 € 250.000 (Verbeek)
Hersenstichting Nederland (Netherlands brain foundation) Functional characterization of non-classified variations in spinocerebellar ataxia type 13 2011 € 35,000 (Verbeek)
NutsOhra Fund Whole exome sequencing: the route to maximal diagnostics for ataxia patients 2011 € 42,500 (Verbeek)
eRARE young investigator grant Towards the Understanding of Pathological Protein Processing and Toxicity in Machado-Joseph Disease 2013 €139,500 (Verbeek)
EU KP7 Health <u>T</u> reating <u>I</u> ron <u>R</u> elated <u>C</u> hildhood <u>O</u> nset <u>N</u> eurodegeneration (TIRCON) 2011 € 5,200,000 (Sibon, full partner and workpackage leader)
EU E-rare project European multidisciplinary initiative on neuroacanthocytosis (EMINA) 600.000 euro 2010(Sibon, full partner)
EU KP7 Health <u>T</u> reating <u>I</u> ron <u>R</u> elated <u>C</u> hildhood <u>O</u> nset <u>N</u> eurodegeneration (TIRCON) 2011 € 5,200,000(Sibon, full partner and workpackage leader)

### Radoud University Medical Center, Nijmegen, The Netherlands

Title	Funding source
Cerebellar dysfunction and its compensation in presymptomatic carriers of dominant ataxia genes: heading towards therapeutic neuromodulatory interventions in ataxias.	Gossweiler Foundation
Physiotherapy in ataxia: effectiveness and usage	KNGF
Cerebral compensatory mechanism in spinocerebellar ataxias	Radoudumc
Systematic Modeling of Autosomal Recessive Cerebellar Ataxias in <i>Drosophila</i> - novel avenues towards better understanding and future treatment	Radoudumc
Phenotypic enrichment of the Nijmegen Parkinson's disease genetic database	BBMRI-NL
The effect of cerebellar cTBS on writer's cramp	Dutch Dystonia Society
European Spinocerebellar Ataxia Type 3/Machado-Joseph Disease Initiative	EU/ZonMW
Preparing for therapies in autosomal recessive ataxias	EU/ZonMW
Understanding balance problems through studying startle reactions in hereditary spastic paraplegia	Radoudumc
Sjogren-Larsson Syndrome: clinical studies	Radoudumc
GLUT1 deficiency syndrome: clinical aspects, treatment, genetics, and biomarkers	ZonMW
Ataxia telangiectasia: genetics in relation to clinical aspects	Stichting AT
Ataxia telangiectasia: movement disorders; prognosis; consequences of carriership	Stichting AT

	Twan Foundation
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### University Medical Centre Ljubljana

Title	Funding source
Identification of new disease mechanisms with next generation sequencing (B. Peterlin)	ARRS
Integrative genomics in neurodegenerative diseases (B. Peterlin)	ARRS
Early detection and rational therapy of dementia: role of biomarkers (Z. Pirtosek)	ARRS
Targeting new receptors in dystonia: electrophysiological and neuroimaging correlates of the effect of zolpidem, a selective agonist of benzodiazepine subtype receptor alfa-1, in different forms of primary focal dystonia (M. Kojovic)	ARRS
Cardio-respiratory responses during hypoxic exercise in individuals born prematurely (D. Osredkar)	ARRS

### Pitié-Salpêtrière hospital, Paris, France

#### Selected projects among 25 projects (period 2011-2016)

Title	Funding source
<b>FTDGenes.</b> Constitution d'une cohorte clinico-génétique nationale de patients pour identifier de nouveaux gènes impliqués dans les formes monogéniques de DLFT'. 2008-2011.	ANR (programm MRARES 2008) 300 000 €
<b>Predict-PGRN.</b> Caractérisation multimodale des individus porteurs de mutation du gène PGRN à un stade symptomatique ou présymptomatique de la maladie. 2010-2019	Programme Hospitalier de Recherche Clinique & Fondation Plan Alzheimer 500 000 €
Modélisation du phénotype et de la réversion de la DFT liée à la progranuline. 2010-2013	Fondation-plan Alzheimer. AAP Animal models 350 000 €
<b>Typage-APP/CAPP.</b> Caractérisation linguistique, anatomique/métabolique et biologique des différentes formes d'aphasie primaires progressives: vers un rationnel pour des rééducations ciblées et des essais pharmacologiques. 2010-2016	Programme Hospitalier de Recherche Clinique (PHRC) national 2010 740 000 €
<b>RiMOD –</b> 2013-2016	JPND 300 000 €
<b>FTLD-exome</b> 2015-2019	Programme Hospitalier de Recherche Clinique (PHRC) national 700 000 €
<b>NeurOmics</b> Integrated European Project on Omics Research of Rare Neuromuscular and Neurodegenerative Diseases –	FP7-Seventh Framework Programme for Research and

2013-2017	<b>Technological Development</b> 300 000 €
<b>PrevDemAIs</b> Predict to prevent FTD and ALS 2015-2019	<b>ANR –PRTS</b> 1 700 000 €
<b>InCure</b> <a href="#">Innate Immune Activation in Neurodegenerative Disease.</a> 2014-2017	<b>JPND</b> 200 000 €

### Vall Hebron University Hospital

Title	Funding source
Diagnostic exome, research exome and whole genome: maximising NGS performance in early infantile epileptic encephalopathies (PI15/ 01791) PI: A.Macaya	Instituto de Salud Carlos III (Spanish health Ministry)
Whole Exome Sequencing for the molecular analysis of early infantile epileptic encephalopathies (PI12/1005) PI: A. Macaya	Instituto de Salud Carlos III (Spanish health Ministry)
Exome sequencing of early epileptic encephalopathies: data analysis (2010 BP_A2 00025) PI: A.Macaya	AGAUR –Beatriu de Pinos grant
Eurohead Pain. Genetics work package. PIs (Barcelona node): A.Macaya/P.Pozo	European Union FP 7th Framework programme
Genes and migraine: Positional cloning in familial migraine and expression in experimental cortical spreading depression. (SAF2009-13182-C03-03) PI: A.Macaya	MICINN (Science & Innovation Spanish Ministry)
Investigation of the of HLA-DRB1/DQB1 polymorphisms as susceptibility genetic factors in sporadic and familial forms of autoimmune myasthenia gravis in a Spanish population. PI: J.Gámez	Instituto de Salud Carlos III (Spanish health Ministry)
DESATA: a project for development of a drug for treating transthyretin amyloidosis. PI: J.Gámez	Spanish Economy and Competitivity Ministry
Structural lesions and neuropsychological repercussions in mild traumatic brain injury (PI13/02397)	Fondo Investigación Sanitaria, (Instituto de Salud Carlos III) co-financed by the European Regional Development Fund
Molecular mechanisms involved in the genesis of the glioma and study of the tumoral stem cells. Identification of new therapeutic targets and markers for the stratification in patients and response to drugs (AECC-GE2010-07)	Asociación Española contra el Cancer
Neuropsychological impairment and brain lesions in mild traumatic brain injury (MAPFRE 2012-04)	Fundación Mapfre
Analysis of the temporal profile of the neuroinflammatory response mediators in the brain extracellular space by high-resolution microdialysis after severe traumatic brain injury (FMM-2010-10)	Fundación Mútua Madrileña
Applications of high-resolution microdialysis to define the molecular profile of post-traumatic and ischemic brain edema and the contribution of non-selective SUR1-regulated NCCa-ATP channels to its formation. (PI10/00302)	Fondo Investigación Sanitaria, (Instituto de Salud Carlos III) co-financed by the European Regional Development Fund
Analysis of the metabolic and inflammatory effects of cortical spreading depression (CSD) and CSD-like phenomena in acute brain lesions (PI080480)	Fondo Investigación Sanitaria, (Instituto de Salud

	Carlos III) co-financed by the European Regional Development Fund
Analysis of the temporal profile of the neuroinflammatory response mediators in the brain extracellular space by high-resolution microdialysis after severe traumatic brain injury (MAPFRE 2009/01)	Fundación Mapfre Medicina
Advanced Arterial Hypotension Adverse Event prediction through a Novel Bayesian Neural Network (AVERT-IT) (FP7-217049)	European Commission. Seventh Framework Programme
Role of the neuropeptides hypocretin-1, melatonin and cortistatin in sleep-wake cycle alterations in patients with normal pressure hydrocephalus (PI070681)	Fondo Investigación Sanitaria, (Instituto de Salud Carlos III) co-financed by the European Regional Development Fund