

# Funds for Health Research Laureates 2022

In 2022, 60 Funds have granted more than  
6,6 million euros to researchers



## FUND SUZANNE DUCHESNE

Ada Nowosad	KU Leuven	Dissecting the cellular and molecular interaction networks that promote melanoma stemness at the perivascular niche
Myrthe Mampay	VUB	MyeCellTherapy: A novel cell-based therapy for glioblastoma, using enhanced stem cell-derived macrophage cells
Lien Lippens	UGent	Direct, rapid and sensitive sensing in body fluids to enable a fine-grained biomarker view on extracellular vesicle

## FUNDS SUZANNE DUCHESNE, SERGE ROUSSEAU AND DR JEAN GÉRARD

Sibusiso Maseko	ULiège	Identification and validation of protein-protein interactions inhibitors targeting human T-cell leukemia virus
Marc Hennequart	UCLouvain	Investigation of the tryptophan dependent metabolic interplay between cancer cells and immune cells
Morgane Thibaut	UCLouvain	Targeting bile acid-activated receptors and gut microbiota to tackle muscle atrophy and hepatic inflammation in cancer cachexia
Chloé Maurizy	ULiège	tRNA modifications and their targets: Role of LEPRE-1, a collagen hydroxylase, in epithelial cancers
Grégoire De Streeel	UCLouvain	Exploratory in-depth analyses of tumor biopsies collected in a first-in-human clinical trial testing cancer immunotherapy with anti-GARP:TGF- 1 antibodies

## FUNDS FOR RESEARCH ON DEMENTIA (A.B., LOUIS & DENISE BRUYNINCKX-HERNAUT, CAMILLE CLAES, LUCETTE DESCAMPS, PIERRE MASURE AND STELDUST)

Ira Espuny-Camacho	ULiège	MICROGLIA: Study which role microglia play in the forming of early Alzheimer and how this can eventually lead to strategies to prevent the disease
Nikolaos Louros	KU Leuven	AMYLOID SEEDING: This study is aiming to detect very small particles known to play a role in the forming of Alzheimer disease, so that a method can be established to detect these particles in plasma or CVS in the earliest stages of Alzheimer
Joni Gilissen	VUB	CARE ECO: Using Care takers to guide patients with Alzheimer and their family

## FUNDS FRANCINE & HENRI PLISNIER AND DR & MS CHARLES TOURNAY-DUBUISSON

Fabienne Dobbels	KU Leuven	Developing and implementing a person-centered integrated care model in co-creation with and for patients with idiopathic pulmonary fibrosis: The PICCOLO-project
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## FUND SOPHIA

Henry Houlden	University College London	Identifying genetic modifiers of disease in MSA to facilitate clinical intervention
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## FUND 101 GENOME

Bart Loeys	UZ Antwerpen	Genome-wide Epistasis for cardiovascular severity in Marfan Study
Paul Coucke	UZ Gent	

## FUND GENERET

Rosa Rademakers	UAntwerpen	Fighting FTLD-FUS through Multi-omic Approaches, Global Partnerships and Collaboration
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## BELGIAN HEART FUND

Aernout Luttun	KU Leuven	Study of the cellular and molecular mechanisms underlying cardiomyopathy caused by transcription factor PR domain containing 16 (Prdm16) deficiency in cardiomyocytes and non-cardiomyocyte cell types
Jan De Pooter	UZ Gent	Conduction system pacing: a bench and bedside study. Insights in cardiac conduction disease translated to novel pacing strategies.
Lucas Van Aelst	KU Leuven	Preclinical and clinical assessment of the beneficial effects of hepcidin, a pivotal endogenous regulator of iron metabolism, on anthracycline-induced cardiotoxicity.
Wendy Hens	UZ Antwerpen	Eccentric overload training in addition to a traditional cardiac rehabilitation programme: randomized controlled trial to evaluate effectiveness and feasibility in heart failure patients with reduced ejection fraction.
Guido Claessen	KU Leuven	Prospective evaluation of cardiac remodeling in young competitive athletes – Identification of genetic and environmental determinants (PRO@HEART)

## FUND DIABETES LIGA ONDERZOEK

Erika Vanhauwaert	UC Leuven Limburg	MyDIABPal. Co-creating and testing an illustrated self-management support package (DSMSP) for person-centred diabetes care in interdisciplinary primary care services
Johan Bilsen	VUB	Enhancing the approach of healthcare professionals in dealing with psychosocial needs of chronically ill patients.

## FUND ALINE

Katrien Remaut	UGent	In vivo evaluation of the expression kinetics and immunogenicity of lipid nanoparticle mediated messenger RNA and self-amplifying messenger RNA delivery to the retina.
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## FUND MAURANGE

Anabelle Decottignies	Institut de Duve	Premature ageing diseases of dysfunctional telomeres: improving diagnostic tools and identifying new causative mutations
Mélina Vaurs	Institut de Duve	Role of oxidative stress in activating the ALternative mechanism of telomere maintenance
Béatrice Scholtes	Université de Liège	Promoting shared-decision making: Patient resources to reduce initial benzodiazepine prescription using the stepped-care model.
Amber Damiaens	KU Leuven	RESPECT: RESident's Participation in the Evaluation and Customisation of Therapy

## FUND HENRI BENEDICTUS

Baziel Taghon	Belgian American Educational Foundation	Master in Biomedical Engineering at Columbia University, USA
Médéric Loyez	Belgian American Educational Foundation	post-doctoral research on biomedical sensors based on optical fibres, at Washington University in St Louis, USA

## FUND FOR SCIENTIFIC RESEARCH ON AIDS

Linus Vandekerckhove	BREACH	In-depth characterization of the dynamics of the functional latent reservoir in long-term cART-treated people living with HIV-1 from Belgium
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## FUND IRIS-RESEARCH

François Willermain	ULB	Aquaporin-1 as a novel potential therapeutic target in proliferative vitreoretinal diseases
Salvatore Campanella	ULB	Development of a battery of event-related potentials (ERPs) as an add-on tool to identify multiple cognitive impairments
Joëlle Nortier	CHU Brugmann	Patient partnerships implementation in nephrology : Multicentric evaluation of the benefits for chronic kidney disease patients and dedicated healthcare teams
Anna Amoruso	HUDERF	Physiologically Based Cord Clamping To Improve Neonatal Outcomes After Moderate or Late Preterm Birth
Ernestina Carla Repetto	CHU St Pierre	Blood-stream infection due to Gram negative bacteria and impact on time to optimal treatment and adequate transmission based precautions of rapid diagnostic test to detect ESBL pattern of resistance: experience from 3 public hospitals in Brussels.
Alec Aeby	HUDERF	Investigation of brain connectivity associated with learning difficulties in self-limited focal epilepsy.

## FUNDS MARIE-THÉRÈSE DE LAVA AND ROBERT SCHNEIDER

Stany Perkisas	ZNA Sint-Elisabeth	Ultrasonographic assessment of muscle: early screening for sarcopenia to prevent functional decline in older people and improve their quality of life.
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## FUND BENEVERMEDEX

Colin Cordemans		The pathogenesis of long covid from a biopsychosocial perspective : a narrative review
Tom Geens	Liantis	Towards a better understanding of the occurrence and prevention of (serious) occupational accidents in Belgium

## FUND A.B.

Linus Vandekerckhove	UGent	Functional analysis of T cells infiltrating the lungs of severely ill COVID-19 patients.
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## FUNDS DRUWÉ-EERDEKENS AND VAN AEL

David Crosiers	UZ Antwerpen	Is isolated REM-Sleep-without-Atonia (iRSWA) a very early biomarker of Parkinson's disease?
Patrick Santens	UGent	A Novel Training Method to Reduce Fall Risk in People with Parkinson's Disease: The Role of the Balance Organ

## FUNDS CLAIRE FAUCONNIER, GINETTE KRYKSZTEIN & JOSÉ AND MARIE PHILIPPART-HOFFELT

Serena Borrelli	CHU Brugmann	Implementation of biomarkers in multiple sclerosis: what can help clinicians to predict clinico-pathological phenotypes
Daphné Kos	National MS Center Melsbroek	Cognitive fatigability in daily life of people with multiple sclerosis: physiological responses and proof-of-concept of biofeedback-based intervention to improve quality of life

## FUND JEANNE AND ALICE VAN DE VOORDE

Kris Baetens	VUB	Neural correlates of inhibitory control in adolescents with clinically disordered eating
Marie Delhaye	ULB	The role of short-chain fatty acids ' supplementation on anorexia nervosa in an adolescent and young adult population

## FUNDS JOHN W. MOUTON PRO RETINA AND CAMILLE LIÉNAERT

Elfride De Baere	UGent	3D-RET: unlocking 3D genome architecture in human retina, a novel target for intervention
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## FUND ELLA STAPPERS

**Els Ortibus** KU Leuven A multifaceted approach for the early diagnosis of visual perceptual impairments in high-risk infants – a longitudinal study.

## FUNDS THIERRY MARICQ AND VÉRONIQUE DETOURNAY

**Aurore Liénard** Institut Jules Bordet Children facing parental cancer: a new randomized controlled study assessing the efficacy of a personalized intervention remote psychological intervention to support parenting

## FUNDS SIMON BAUVIN, ROBERT BRANCART, CHRISTIAN LISPET, ROSA MEYNEN, DENISE RAES AND ALBERTE DELFERIÈRE

**Bénédictte Brichard** Cliniques universitaires Saint-Luc International Euro Ewing (iEuroEwing) trial for treatment optimisation in patients with Ewing sarcoma

**Anne Uyttebroeck** UZ Leuven International cooperative prospective study for children and adolescents with standard risk ALK-positive ALCL estimating the efficacy of Vinblastine

**Bram De Wilde** UZ Gent Individualized Therapy For Relapsed Malignancies in Childhood

## FUND AZ GROENINGE

**Philip Lerut** AZ Groeninge Research on lungcancer

**Philip Debruyne** AZ Groeninge A prospective, multicentric, phase IV trial of the safety and tolerability of the first-line combinations of a PD-1 inhibitor with a CTLA-4 or tyrosine kinase inhibitor (TKI) in older patients with stage IV kidney cancer

## FUNDS CATHARINA WEEKERS AND RAYMOND WUYTS

**Yannick De Vlaeminck** VUB A new adoptive T-cell therapy targeting B7-H3 and HMGB1: towards a cure for multiple myeloma

**Alexandra Bacquelaïne** KU Leuven Oncogene cooperation enhancing TLX1 positive leukemia development

**Jolien De Bie** UZ Leuven Opportunities of Optical Genome Mapping to detect novel structural and numerical variants in hematologic cancers

## FUNDS ALBERT & ANNIJ, JOHANNA DAMMAN, CARLOS DANNEELS, MONIQUE DECLERCK AND HERMAN & PAULA MEURISSE

**Emma Verheye** VUB Personalized tumor-derived dendritic cell therapy to overcome residual disease in multiple myeloma

## FUND BRIGITTE HUIJTS-HEIDUG

**Hans Wildiers** KU Leuven Building a large blood biobank of patients with new breast cancer diagnosis for future research

## FUND DÉSIÉRE AND SIMONE DRIEGHE MILLER

**Jean-Luc Van Laethem** Erasmee - ULB UCLouvain STEREO-PAC: a clinical trial combining high-dose stereotactic body radiation therapy and chemotherapy before surgery of borderline resectable pancreatic cancer

## FUND ANDRÉ DANERS

**Pierre Close** ULiège Importance of wobble tRNA editing in lung cancer

## FUND FOR SCIENTIFIC RESEARCH ON RHEUMATOLOGY

**Filip Van den Bosch** UZ Gent The prevalence of spondyloarthritis-like structural lesions of the sacroiliac joints on MRI in postpartum women.

**Patrick Verschuere** KU Leuven What is the optimal tapering strategy for rituximab in patients with Rheumatoid Arthritis: comparison of interval prolongation with disease activity guided dose reduction

**Patrick Vandormael** UHasselt Anti-UH-RA antibody reactivity for prediction of response to first-line therapy in rheumatoid arthritis: validation in the independent CAP48 cohort

**Lennart Jans** UGent Artificial intelligence for early detection of spondyloarthritis in medical imaging: development and validation of novel CT and MRI use cases for clinical practice.

**Emilie Dumas** UGent PRIOR-M: Predicting treatment Response In spondyloarthritis using gut Microbiome

**Barbara Neerinckx** UZ Leuven Clinical field tests as predictors of cardiorespiratory fitness and cardiometabolic risk in Psoriatic Arthritis.

**Patrick Durez** Cliniques universitaires Saint-Luc Transcriptome study of individual cells isolated from synovial biopsies: can it help in the therapeutic management of early rheumatoid arthritis ?

## FUND DOCTOR J.P. NAETS

**Renaud Beauwens** ULB The role of the ubiquitin-protein ligase Nedd4-2 on the electrogenic Na<sup>+</sup>/HCO<sub>3</sub><sup>-</sup> cotransporter, NBCe1-B and Pendrin in the thyroid

**Alain Boom**

**Antonina Khoruzenko**

**Carine Maenhaut** ULB Functional characterization of miR-204-5p, miR-204-3p and miR-1179 in papillary thyroid cancer tumorigenesis

**Cindy Van Branteghem**