Dextrain reports the creation of its Scientific Committee

Paris – June 17th 2021 – Chaired by Pável Lindberg, the scientific committee will operate as a ‘think-tank’ with a focus on dexterity and will help Dextrain to meet the clinical needs in neurology, neurorehabilitation, psychiatry and geriatrics. The committee will also provide scientific expertise on latest technological developments in the field of neurological measurement and give clinical feedback on tools from many specialities and clinics.

Faïza ARNAUD-BOUATOU is a Physical Medicine and Réhabilitation physician specialized in neurorehabilitation, working in West Paris Hospital network. She has many years of clinical experience (public and private centres) in France and Switzerland. She graduated PMR physician in 2011. Faiza has developed and supervised outpatient rehabilitation clinics with a focus on neurorehabilitation and home care services with a neuro-environmental and integrative medicine approach. She has extensive experience of treating sensorimotor but also cognitive impairments. Together with the neurology department at the André Mignot hospital and with professor PICO she developed stroke patient care pathways for geriatrics and cognitive impairment. She has also acquired knowledge in patient therapeutic education from Sorbonne Université (2018) and works as medical consultant for Patient therapeutic Education.

Joël Belmin is professor and head of the geriatric department of a French hospital located near Paris and is responsible for geriatrics and gerontology teaching at the Sorbonne Université. He has a particular interest in drug use, infectious diseases, cognition disorders and cardiovascular diseases in the elderly. He is the author of more than 200 scientific publications and is the editor of Gériatrie pour le praticien, the main French textbook of geriatrics (Masson/Elsevier Publisher, 2018). Prof Belmin is a member of the editorial boards of Drugs and Aging, Gerontology, La Presse Médicale, the Journal of Nutrition Health and Aging, and Diagnostics.

Friedhelm Hummel is professor at the Centre for Neuroprosthetics (CNP) and the Brain Mind Institute (BMI) at the Swiss Institute of Technology in Lausanne (EPFL), Switzerland, and associate professor at Clinical Neuroscience at the University Medical School of Geneva. He directs the Defitech Chair for Clinical Neuroengineering. His main research interests is stroke recovery with a focus on multimodal imaging, the development of interventional neurotechnology based on non-invasive brain stimulation and personalization to enhance functional recovery and the understanding of underlying mechanisms.

Marie-Odile Krebs is a professor in psychiatry at the GHU Psychiatry and Neuroscience hospital in Paris. She runs the Pôle PEPIT, a clinic specialized in early evaluation, prevention and therapy innovation for young adults with neurodevelopmental psychiatric disorders. Marie-Odile leads a research team “Pathophysiology of psychiatric disorders” at the Institute of Psychiatry and Neuroscience of Paris (Inserm U122, Université de Paris). Her research is translational neuroscience, from basic science to clinical trials, and she has over 300 scientific publications with many collaborative partners and has received a number of scientific prizes and distinctions. She presently leads a French ANR-RHU funded multicentre consortium addressing early personalized intervention in psychosis (the PsyCare project).
Pävel Lindberg will chair the scientific committee. He is a researcher at the Institute of Psychiatry and Neuroscience of Paris (Inserm U1266, Université de Paris) in the stroke research team of Pr Jean-Louis Mas. He obtained a PhD in 2007 on hand motor recovery after stroke (Uppsala University/Karolinska Institute, Stockholm). He leads research on the development and validation of quantitative tools for measurement and rehabilitation of manual dexterity in stroke (from spasticity to independent finger movements). He also studies post-stroke recovery mechanisms using MRI and transcranial magnetic stimulation, and studies sensorimotor impairments in schizophrenia. A main aim is to translate advances in biomechanics and neuroscience to clinically useful technology.

Susanne Palmcrantz is a physiotherapist, specialized in neurology, working as a manager and researcher at the University Department of Rehabilitation Medicine, Danderyd Hospital in Stockholm, Sweden. She obtained a PhD in 2012 on mapping long term effects of stroke among younger persons living in the community in Sweden and now coordinates a research group with a focus on development and testing of new medical technology for prediction and rehabilitation of sensorimotor impairments after stroke.

Charlotte Rosso is a professor in stroke neurology working in the stroke unit at the Pitié-Salpêtrière hospital in Paris, and a clinical scientist working at the Brain institute. She completed her PhD in 2009 with Sylvain Baillet on diffusion MRI biomarkers in stroke patients’ outcome prediction. During her post-doc, she developed her skills with functional MRI and non-invasive brain stimulation techniques (Supervisors: S. Meunier and S. Lehéricy) to study brain plasticity after stroke, and in order to apply individualized treatments to patients. Since 2015 she performs research in the MOV’IT group (normal and abnormal movement: pathophysiology and experimental therapeutics; heads: Prs M. Vidailhet and S. Lehéricy). She already completed several research programs as PI devoted to the study of stroke severity and prognosis using neuroimaging and the neural correlates of stroke severity and recovery (using resting state fMRI, and DTI).

Yves Vandermeeren is professor in stroke neurology at Godinne University hospital in Namur, Belgium. He leads the clinical Stroke Unit of the CHU UCL Namur (Mont-Godinne, Belgium) and directs the Stroke Recovery Lab (UCLouvain, Institute of NeuroScience (IoNS) / Louvain Bionics consortium). His main research topics are motor control and motor learning in the human being (healthy individuals and stroke patients), the plasticity of the motor system studied with structural and functional magnetic resonance imaging (MRI), and developing new neurorehabilitation approaches such as robotics to enhance recovery of motor function after a stroke.

About Dextrain
Created in February 2021, the Dextrain company is specialized in the development and commercialization of innovative medical devices and digital solutions for the assessment and rehabilitation of manual dexterity. Its mission is to transform neuro-rehabilitation, by exploiting the latest advances in neuroscience, to provide a new generation of solutions in all pathologies impacting manual dexterity. The ambition is to improve the independence and quality of life of as many people as possible.

For more information: www.dextrain.com

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