# Development of Biomaterial-based Delivery Systems for Parkinson’s disease – an Integrated Pan-European Approach

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**Name of Fellow**
**Institution**
**Funder**

European Commission Horizon 2020

**Contact information of fellow**
**Country**

EC

**Title of project/programme**

Development of Biomaterial-based Delivery Systems for Parkinson’s disease - an Integrated Pan-European Approach

**Source of funding information**

European Commission Horizon 2020

**Total sum awarded (Euro)**

€ 3,995,083

**Start date of award**

01/01/16

**Total duration of award in years**

4.0

**The project/programme is most relevant to:**

Parkinson's disease & PD-related disorders

**Keywords**

Functionalised biomaterials | tissue engineering | scaffolds.

**Research Abstract**
BrainMatTrain focuses on a comprehensive understanding of Parkinson’s disease (PD), from

basics to translation, fully supported by 8 full partners partner organisation (4 research institutions, 2 hospitals, 2 SMEs) and one partner organisation (SME specialist in device design). This ETN will educate and train 15 Earlty Stage Researchers (ESRs) in functioanlised biomaterials, materials science, functionlisation strategies, molecular biology, stem cell biology, in vitro model systems, in vivo neuroimaging, animal models and prototype design. Recruited ESRs will receive compulsory discipline-specific, generic and complementary transferable skills training. BrainMatTrain will develop multi-modal collagen reservoir scaffolds incorporating moieties targetitng the neuroinflammatoiry and neuroprotective phases of the underlying pathology of Parkinson’s disease. The researchers will undertake cross-disciplinary and intersectorial research projects, which when married together will deliver a novel, biomaterial-based, therapeutic device for the treatment of Parkinson’s disease. The research training programme is designed to ensure high-calibre graduates, best placed to secure employment in the private or public sector. Fellows will experience both private and public sector research and development environments through a considered secondment plan.

**Types:**
Fellowships

**Member States:**
European Commission

**Diseases:**
Parkinson's disease & PD-related disorders

**Years:**
2016

**Database Categories:**
N/A

**Database Tags:**
N/A