



# Our research grants 2018

**PARKINSON'S<sup>UK</sup>**  
**CHANGE ATTITUDES.**  
**FIND A CURE.**  
**JOIN US.**

Since the start of our strategic period in 2015, we've invested £16million in research. We've set up initiatives that aim to speed up the delivery of new and better treatments. In addition to projects aimed at developing a cure, our research grants support those seeking to improve life for people with Parkinson's.

Our research projects exist at different stages of the research pipeline. Some are in the early scientific discovery stage, while others are already being tested in clinical trials. You can find out more about the terms used in this document in the key below:



### What do we mean by a 'cure'?

Projects and programmes that work towards treatments and strategies to have the potential to slow, stop, reverse or prevent Parkinson's. This includes developing new treatments and improving diagnosis and monitoring of the condition.



### What do we mean by 'life'?

Projects and programmes that will deliver treatments and strategies to improve the symptoms and quality of life of people with Parkinson's. This includes better therapies and management for issues such as falls, anxiety and thinking and memory problems.

## What happens in the different stages of the pipeline?

- **Scientific discoveries** – researchers attempt to find out what goes wrong in Parkinson's and come up with ideas for how to fix it.
- **Developing treatments** – dedicated teams turn the most promising scientific discoveries into potential new treatments.
- **Clinical trials** – new treatments that have been proven safe and effective by all other methods are carefully tested in people.



## Our active research grants

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| <b>1</b>   | <b>Project name</b>       | <b>Tracking Parkinson's (PROBAND) (J-1101)</b> |
|  | <b>Lead researcher</b>    | Professor Donald Grosset                       |
|  | <b>Start and end date</b> | Oct 2011–May 2022                              |
|  | <b>Location</b>           | University of Glasgow                          |
|  | <b>Cost</b>               | £3,411,807                                     |
|  | <b>Type: Cure</b>         | <b>Stage: Scientific discovery</b>             |
| <p>The ambitious Tracking Parkinson's study launched in early 2012 with the aim of studying how people with the condition differ in their symptoms, respond to drug therapies and progress over time. Ultimately, understanding these differences will help us develop better and more targeted treatments that we can use in particular types of Parkinson's.</p> |                           |  |

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| <b>2</b>  | <b>Project name</b>       | <b>Understanding VPS35 in Parkinson's (H-1702)</b> |
|   | <b>Lead researcher</b>    | Dr Eva Kevei                                       |
|   | <b>Start and end date</b> | Oct 2018–Oct 2021                                  |
|   | <b>Location</b>           | University of Reading                              |
|   | <b>Cost</b>               | £93,375  |
|   | <b>Type: Cure</b>         | <b>Stage: Scientific discovery</b>                 |
| <p>Researchers have recently discovered that changes in a gene called VPS35 can cause Parkinson's, but we don't yet know how. While this genetic form of Parkinson's is very rare, understanding why changes in this gene lead to Parkinson's could give us the vital insight needed to develop new and better treatments. In this project, the team hopes to use a worm model of Parkinson's to better understand how the VPS35 is linked to the loss of precious brain cells.</p> |                           |  |

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| <b>3</b>   | <b>Project name</b>       | <b>Targeting GBA in Parkinson's (G-1704)</b> |
|  | <b>Lead researcher</b>    | Professor Anthony Schapira                   |
|  | <b>Start and end date</b> | Jul 2018–Jul 2021                            |
|  | <b>Location</b>           | Institute of Neurology, UCL                  |
|  | <b>Cost</b>               | £319,000                                     |
|  | <b>Type: Cure</b>         | <b>Stage: Developing treatments</b>          |
| <p>Changes in the GBA gene are an important risk factor for Parkinson's and can significantly increase the risk of developing Parkinson's. Anthony's previous research has shown that these mutations lead to alpha-synuclein building up in brain cells. He also discovered that a drug called ambroxol may be able to help. Now Anthony and his team plan to investigate whether ambroxol can slow the spread of the alpha-synuclein protein in a mouse model of the condition. This information could help researchers design future clinical trials.</p> |                           |  |

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| <b>4</b>  | <b>Project name</b> | <b>Predict Parkinson's (G-1606)</b> |
| <b>Lead researcher</b>  |                     | Professor Anette-Eleonore Schrag    |
| <b>Start and end date</b>   |                     | May 2017-May 2021                   |
| <b>Location</b>   |                     | University College London           |
| <b>Cost</b>   |                     | £603,271                            |
| <b>Type: Cure</b>   |                     | <b>Stage:</b> Scientific discovery  |
| <p>Finding people at risk of Parkinson's could aid future clinical trials. Research teams worldwide have been trying to do this by concentrating on specific risk factors, such as sense of smell or having abnormal genes, but there are other factors as well. At the end of the project, the team hope to be able to accurately calculate risk based on a number of factors and be able to predict people who will develop Parkinson's in the future..</p> |                     |                                     |

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| <b>5</b>  | <b>Project name</b> | <b>Understanding Fbxo7 gene in Parkinson's (G-1701)</b> |
| <b>Lead researcher</b>  |                     | Dr Heike Laman  |
| <b>Start and end date</b>   |                     | Apr 2018-Apr 2021                                       |
| <b>Location</b>   |                     | University of Cambridge                                 |
| <b>Cost</b>   |                     | £200,634  |
| <b>Type: Cure</b>   |                     | <b>Stage:</b> Scientific discovery                      |
| <p>Current treatments only target the symptoms of Parkinson's – they do not slow the loss of dopamine-producing cells. But Dr Heike believes we now have the tools and opportunity to change this. She has experience studying a gene that we now know plays a fundamental role in brain cell health – Fbxo7. Understanding how this gene protects brain cells could give rise to future therapies that can slow or reverse the progression of the condition.</p> |                     |   |

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| <b>6</b>  | <b>Project name</b> | <b>Understanding the impact of Lewy bodies (G-1702)</b> |
| <b>Lead researcher</b>  |                     | Professor Peter Magill                                  |
| <b>Start and end date</b>   |                     | Apr 2018-Apr 2021                                       |
| <b>Location</b>   |                     | University of Oxford                                    |
| <b>Cost</b>   |                     | £216,824  |
| <b>Type: Cure</b>   |                     | <b>Stage:</b> Scientific discovery                      |
| <p>Lewy bodies are abnormal clusters of protein that form inside the brain cells lost in Parkinson's. While they are found in these cells, researchers do not know how Lewy bodies affect them. Peter and his team hope to use a mouse model of Parkinson's to discover the impact Lewy bodies have on the function of dopamine-producing brain cells. Ultimately their research could shed new light on how to slow or stop the condition.</p> |                     |   |

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| <b>7</b>  | <b>Project name</b>                 | <b>Finding drugs that combat alpha-synuclein (G-1703)</b> |
| <b>Lead researcher</b>  | Professor Maria Grazia Spillantini  |   |
| <b>Start and end date</b>   | Mar 2018–Mar 2021                   |   |
| <b>Location</b>   | University of Cambridge             |   |
| <b>Cost</b>   | £364,620                            |   |
| <b>Type: Cure</b>   | <b>Stage: Developing treatments</b> |   |
| <p>The protein alpha-synuclein is the main component of Lewy bodies, and is believed to play a key role in the loss of precious brain cells and spread of Parkinson's. Anle138b is a potential drug that Maria and her team have shown reduces the ability of alpha-synuclein to form Lewy bodies in mouse models of the condition. In this project, the team hopes to find the optimal dose of this compound, and discover more about its effects, to progress it towards clinical trials.</p> |                                     |   |

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| <b>8</b>  | <b>Project name</b>                | <b>Understanding gut bacteria to deliver better treatments (G-1705)</b> |
| <b>Lead researcher</b>  | Dr Maria Doitsidou                 |   |
| <b>Start and end date</b>   | Jan 2018–Jan 2021                  |   |
| <b>Location</b>   | University of Edinburgh            |   |
| <b>Cost</b>   | £243,128                           |   |
| <b>Type: Cure</b>   | <b>Stage: Scientific discovery</b> |   |
| <p>Recent research has highlighted the importance of gut-brain interactions in Parkinson's. We know microorganisms that live in our gut can affect our brain, and there is evidence that, for some, Parkinson's may start in the gut. The team is using a worm model of Parkinson's to investigate how the different types of bacteria in our gut can influence symptoms of Parkinson's, and how gut bacteria communicate with our brain. This could help to predict how Parkinson's will affect an individual in the future and help to develop better treatments.</p> |                                    |   |

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| <b>9</b>   | <b>Project name</b>                 | <b>Stem cell therapies: targeting the non-motor symptoms (F-1502)</b> |
| <b>Lead researcher</b>   | Dr Mariah Lelos                     |   |
| <b>Start and end date</b>  | Nov 2015–Oct 2020                   |   |
| <b>Location</b>  | Cardiff University                  |   |
| <b>Cost</b>  | £250,000                            |   |
| <b>Type: Cure</b>  | <b>Stage: Developing treatments</b> |   |
| <p>Cell transplants have the potential to reverse the damage that occurs inside the brain in Parkinson's. The team is transplanting new dopamine-producing cells into the brains of rats with of Parkinson's-like symptoms to see if they can improve movement symptoms, and non-motor symptoms including problems with thinking, memory, anxiety, and smell. The team will use dopamine-producing brain cells made from different types of stem cells, and investigate how they work by using viruses to turn the cells on and off.</p> |                                     |   |

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| <b>10</b>  | <b>Project name</b>       | <b>Understanding and predicting Parkinson's progression (H-1703)</b> |
|  | <b>Lead researcher</b>    | Professor Huw Morris   |
|  | <b>Start and end date</b> | Nov 2017-Nov 2020  |
|  | <b>Location</b>           | University College London  |
|  | <b>Cost</b>               | £99,169  |
|  | <b>Type: Cure</b>         | <b>Stage: Scientific discovery</b>                                   |
| <p>Huw's team is interested in finding out how people's genetic makeup may influence the progression of Parkinson's. They will combine clinical and genetic data from several large Parkinson's research studies to create the largest dataset of Parkinson's progression to date. They also aim to predict Parkinson's progression on an individual level, using both clinical and genetic factors.</p> |                           |  |

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| <b>11</b>   | <b>Project name</b>       | <b>Can we protect neurons against mitochondrial dysfunction? (F-1401)</b> |
|   | <b>Lead researcher</b>    | Dr Amy Reeve  |
|   | <b>Start and end date</b> | Jul 2014-Jun 2020   |
|   | <b>Location</b>           | Newcastle University  |
|   | <b>Cost</b>               | £413,745  |
|   | <b>Type: Cure</b>         | <b>Stage: Developing treatments</b>                                       |
| <p>Understanding how changes in mitochondria affect energy production, and contribute to brain cell death, may be the key to treatments that protect against energy loss and help cells survive into old age. Using brain tissue, brain cells grown in the lab and mice with Parkinson's-like symptoms, Amy is testing a range of drugs known to interact with mitochondria. This could tell her if the drugs can protect brain cells against the problems caused by faulty mitochondria and alpha-synuclein.</p> |                           |   |

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| <b>12</b>   | <b>Project name</b>       | <b>Finding new ways to treat anxiety (G-1601)</b> |
|   | <b>Lead researcher</b>    | Dr Jerome Swinny                                  |
|   | <b>Start and end date</b> | May 2017-May 2020                                 |
|   | <b>Location</b>           | University of Portsmouth                          |
|   | <b>Cost</b>               | £224,978  |
|   | <b>Type: Life</b>         | <b>Stage: Scientific discovery</b>                |
| <p>Around half of people with Parkinson's have trouble with anxiety, with 'stress and anxiety' rated the second-highest priority area of research for improving quality of life. The locus coeruleus, located in the brainstem, is important for responding to stress. So the researchers want to look specifically at changes to the cells in this part of the brain that may be linked to anxiety. They will then look for drugs that can reverse these changes in the brain and reduce anxiety-like behaviour in mice.</p> |                           |   |

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| <b>13</b>  | <b>Project name</b> | <b>Astrocytes: a support cell in the Parkinson's brain? (G-1402)</b> |
| <b>Lead researcher</b>   |                     | Professor Maeve Caldwell   |
| <b>Start and end date</b>  |                     | Nov 2015-April 2020  |
| <b>Location</b>  |                     | University of Bristol  |
| <b>Cost</b>  |                     | £210,457   |
| <b>Type: Cure</b>  |                     | <b>Stage:</b> Scientific discovery                                   |
| <p>This project will help us understand the role of astrocytes – the most abundant cell type in the human brain – in the loss of dopamine-producing nerve cells in Parkinson's. Maeve and her team are using induced pluripotent stem (iPS) cells to study how astrocytes support and protect the dopamine-producing brain cells that are lost in Parkinson's.</p> |                     |  |

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| <b>14</b>  | <b>Project name</b> | <b>GDNF-7: a combined therapy for Parkinson's (G-1603)</b> |
| <b>Lead researcher</b>   |                     | Dr Oscar Cordero Llana                                     |
| <b>Start and end date</b>  |                     | Apr 2017-Apr 2020  |
| <b>Location</b>  |                     | University of Bristol                                      |
| <b>Cost</b>  |                     | £224,941   |
| <b>Type: Cure</b>  |                     | <b>Stage:</b> Developing treatments                        |
| <p>This research project will explore a combined therapy using GDNF alongside a microRNA – called miR-7 – that helps keep alpha-synuclein levels under control. It may have the potential to not only stop but reverse the development of the condition. If successful, the approach could lead to the development of a treatment for Parkinson's that can be tested in clinical trials.</p> |                     |  |

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| <b>15</b>  | <b>Project name</b> | <b>The Monument Discovery Award (J-1403)</b>              |
| <b>Lead researcher</b>   |                     | Professor Richard Wade-Martins                            |
| <b>Start and end date</b>  |                     | Feb 2015-Feb 2020   |
| <b>Location</b>  |                     | University of Oxford                                      |
| <b>Cost</b>  |                     | £5,857,058  |
| <b>Type: Cure</b>  |                     | <b>Stage:</b> Scientific discovery, developing treatments |
| <p>The Oxford Parkinson's Disease Centre is a unique, collaborative initiative that brings together the best scientific minds to speed up the search for better treatments and a cure. The researchers are looking at Parkinson's from every angle – including studying stem cells and animal models of the condition – to attempt to answer some of the biggest questions facing the field.</p> |                     |   |

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| <b>16</b>   | <b>Project name</b>                | <b>Studying early brain changes in Parkinson's (K-1703)</b> |
| <b>Lead researcher</b>  | Professor Nicola Pavese            |   |
| <b>Start and end date</b>   | Jan 2018–Jan 2020                  |   |
| <b>Location</b>   | Newcastle University               |   |
| <b>Cost</b>   | £36,049                            |   |
| <b>Type:</b> Cure   | <b>Stage:</b> Scientific discovery |   |
| <p>Using special brain scans, we are now able to observe changes in the brain that happen in Parkinson's. However, by the time of diagnosis, many people will have had symptoms for at least several months, so we still don't know what changes happen in the earliest stages of the condition. The team is studying people with REM sleep behaviour disorder, who are at high risk of developing Parkinson's, to identify areas of the brain affected early on.</p> |                                    |   |

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| <b>17</b>  | <b>Project name</b>                | <b>Understanding LRRK2 in fruit flies (K-1704)</b> |
| <b>Lead researcher</b>   | Dr Christopher Elliott             |  |
| <b>Start and end date</b>  | Jan 2018–Jan 2020                  |  |
| <b>Location</b>  | University of York                 |  |
| <b>Cost</b>  | £49,441                            |  |
| <b>Type:</b> Cure  | <b>Stage:</b> Scientific discovery |  |
| <p>Changes in the gene that makes the LRRK2 protein are emerging to be a key player in the development of Parkinson's. Recent evidence suggests LRRK2 interacts with another important protein called Rab10, which is involved in many crucial processes including brain cell growth. The team will investigate how mutations in LRRK2 affect its interaction with Rab10, information that may help in the development of better treatments.</p> |                                    |  |

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| <b>18</b>   | <b>Project name</b>                 | <b>Reducing anxiety in Parkinson's (K-1705)</b> |
| <b>Lead researcher</b>  | Professor Richard Brown             |   |
| <b>Start and end date</b>   | May 2018–Nov 2019                   |   |
| <b>Location</b>   | King's College London               |   |
| <b>Cost</b>   | £44,196                             |   |
| <b>Type:</b> Life   | <b>Stage:</b> Developing treatments |   |
| <p>Anxiety is a common symptom in Parkinson's and can have a severe impact on quality of life. Richard believes that when a person is anxious they see the world in a more negative and threatening way, even when there is no danger. In this project, the team hopes to test if this is the reason behind anxiety in Parkinson's. They also plan to test a technique to reduce anxiety using simple online exercises.</p> |                                     |   |

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| <b>19</b>  | <b>Project name</b>       | <b>A blood test to measure LRRK2 (K-1706)</b> |
|  | <b>Lead researcher</b>    | Dr Esther Sammler                             |
|  | <b>Start and end date</b> | Nov 2017–Nov 2019                             |
|  | <b>Location</b>           | University of Dundee                          |
|  | <b>Cost</b>               | £49,270.00                                    |
|  | <b>Type:</b> Cure         | <b>Stage:</b> Scientific discovery            |
| <p>Changes in the LRRK2 gene are one of the most common genetic risk factors for Parkinson's and can change the way cells behave. Esther hopes that a simple blood test may be able to directly measure the activity of the LRRK2 pathway in blood samples from those with Parkinson's. Demonstrating that the test works could aid future research to test new treatments that target this pathway.</p> |                           |   |

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| <b>20</b>   | <b>Project name</b>       | <b>The largest-ever study of pain in Parkinson's (K-1301)</b> |
|   | <b>Lead researcher</b>    | Dr Monty Silverdale   |
|   | <b>Start and end date</b> | Sept 2013–Sept 2019   |
|   | <b>Location</b>           | Salford Royal NHS Foundation Trust                            |
|   | <b>Cost</b>               | £16,060   |
|   | <b>Type:</b> Life         | <b>Stage:</b> Scientific discovery                            |
| <p>More than half of all people with Parkinson's experience chronic pain. By building on the Parkinson's UK funded 'Tracking Parkinson's' study, Monty and his colleagues are performing the world's largest, most detailed assessment of pain in Parkinson's. They will use surveys alongside an eye examination to look at the small nerves in the surface of the eye for any signs of damage. This project will help us understand more about why pain occurs in Parkinson's and how to spot those at risk of developing it.</p> |                           |   |

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| <b>21</b>   | <b>Project name</b>       | <b>Helping cells get rid of toxic waste in Parkinson's (H-1502)</b> |
|   | <b>Lead researcher</b>    | Professor Sylvie Urbe   |
|   | <b>Start and end date</b> | Sept 2016–Sept 2019   |
|   | <b>Location</b>           | University of Liverpool   |
|   | <b>Cost</b>               | £92,339   |
|   | <b>Type:</b> Cure         | <b>Stage:</b> Scientific discovery                                  |
| <p>Changes in the Parkin gene are one of the most common known causes of early onset Parkinson's. The Parkin protein has a role in removing mitochondria when they are broken, which is needed to keep cells healthy, but proteins called DUBs slow this process down. The team is studying which DUBs are putting the brakes on, then testing compounds that target them to see if they can improve the removal of damaged mitochondria.</p> |                           |   |

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| <b>22</b>   | <b>Project name</b>       | <b>Parkinson's UK Brain Bank (J-1402)</b> |
|   | <b>Lead researcher</b>    | Professor Steve Gentleman                 |
|   | <b>Start and end date</b> | July 2014-July 2019                       |
|   | <b>Location</b>           | Imperial College London                   |
|   | <b>Cost</b>               | £1,263,580                                |
|   | <b>Type: Cure</b>         | <b>Stage: Scientific discovery</b>        |
| <p>The Parkinson's UK Brain Bank is the world's only brain bank solely dedicated to Parkinson's research. The team collects the brain, spinal cord and a sample of cerebrospinal fluid from people with and without the condition for vital research. These tissues are supplied free of charge to researchers studying Parkinson's all over the world.</p> |                           |   |

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| <b>23</b>   | <b>Project name</b>       | <b>Looking for DNA modifications in Parkinson's (G-1502)</b> |
|   | <b>Lead researcher</b>    | Professor Nigel Williams                                     |
|   | <b>Start and end date</b> | July 2016-July 2019  |
|   | <b>Location</b>           | Cardiff University   |
|   | <b>Cost</b>               | £232,404   |
|   | <b>Type: Cure</b>         | <b>Stage: Scientific discovery</b>                           |
| <p>Nigel and his team are studying high-quality brain tissue samples donated to the Parkinson's UK Brain Bank. Using state-of-the-art technology, they're looking for DNA modifications in the areas of the brain that are commonly affected in Parkinson's compared to areas that are not. They're interested in histone modifications, as drugs that can enter the brain and reverse histone modification have already been identified and could hold potential in Parkinson's.</p> |                           |  |

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| <b>24</b>  | <b>Project name</b>       | <b>Better drug screening: finding new uses for old drugs (F-1301)</b> |
|  | <b>Lead researcher</b>    | Dr Heather Mortiboys  |
|  | <b>Start and end date</b> | Sept 2013-Jun 2019  |
|  | <b>Location</b>           | University of Sheffield   |
|  | <b>Cost</b>               | £419,312  |
|  | <b>Type: Cure</b>         | <b>Stage: Developing treatments</b>                                   |
| <p>Heather's project focuses on identifying drugs with untapped potential for Parkinson's that are already used in other conditions. She is looking to see if they can improve the function of mitochondria and lysosomes, and therefore slow or stop the loss of brain cells. If Heather finds strong evidence that any of these drugs have promise, she plans to take them forward to be tested in clinical trials as quickly as possible.</p> |                           |   |

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| <b>25</b>  | <b>Project name</b> | <b>Using brain scans to study cell transplants in Parkinson's (H-1503)</b> |
| <b>Lead researcher</b>   |                     | Professor Paola Piccini  |
| <b>Start and end date</b>  |                     | May 2016-May 2019  |
| <b>Location</b>  |                     | Imperial College London  |
| <b>Cost</b>  |                     | £76,893  |
| <b>Type: Cure</b>  |                     | <b>Stage:</b> Scientific discovery   |
| <p>The researchers aim to identify biological markers linked to successful cell transplantation surgeries as part of the TRANSEURO clinical trial. Ultimately, the findings could help us better understand how cell transplants work for Parkinson's, and accelerate progress towards making this type of treatment a reality for people living with the condition.</p> |                     |  |

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| <b>26</b>  | <b>Project name</b> | <b>Solution for swallowing problems in Parkinson's (G-1401)</b> |
| <b>Lead researcher</b>   |                     | Professor Shaheen Hamdy   |
| <b>Start and end date</b>  |                     | Dec 2014-Apr 2019   |
| <b>Location</b>  |                     | University of Manchester  |
| <b>Cost</b>  |                     | £185,443  |
| <b>Type: Life</b>  |                     | <b>Stage:</b> Clinical trials                                   |
| <p>Difficulties in swallowing can lead to serious complications, from problems with breathing to not getting enough nutrition, dehydration and potentially developing conditions such as pneumonia. Shaheen is looking at three different techniques for treating swallowing problems. This research project will give us an insight into new approaches to tackle swallowing problems in Parkinson's, and identify the most effective approach for further testing.</p> |                     |   |

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| <b>27</b>   | <b>Project name</b> | <b>Engineering beetroot to combat Parkinson's in Africa (G-1505)</b> |
| <b>Lead researcher</b>  |                     | Professor Cathie Martin  |
| <b>Start and end date</b>   |                     | Apr 2016-Apr 2019  |
| <b>Location</b>   |                     | John Innes Centre  |
| <b>Cost</b>   |                     | £16,834  |
| <b>Type: Life</b>   |                     | <b>Stage:</b> Developing treatments                                  |
| <p>Natural sources of levodopa are often used as alternative treatments for Parkinson's where drugs are not available. However, these do not always provide an accurate dose of levodopa and can contain high levels of toxic chemicals. If successful, the researchers hope a modified beetroot could provide a natural source of levodopa that could be extracted and turned into medication. This would improve access to Parkinson's drugs in the developing world.</p> |                     |  |

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| <b>28</b>  | <b>Project name</b> | <b>Predicting dementia in people with Parkinson's (G-1507)</b> |
| <b>Lead researcher</b>   |                     | Professor David Burn   |
| <b>Start and end date</b>  |                     | Dec 2015-Apr 2019  |
| <b>Location</b>  |                     | Newcastle University   |
| <b>Cost</b>  |                     | £357,068   |
| <b>Type: Life</b>  |                     | <b>Stage:</b> Scientific discovery                             |
| <p>The main goal is to better understand the early signs of dementia in people with Parkinson's. The team aims to follow people with Parkinson's to find out if specific symptoms, genes or tests, such as brain scans, can predict who will go on to develop dementia. Identifying people at high risk of developing Parkinson's dementia is important for making decisions about managing the condition, future planning and using medication such as anti-dementia drugs.</p> |                     |  |

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| <b>29</b>  | <b>Project name</b> | <b>Understanding the causes of pain in Parkinson's (H-1404)</b> |
| <b>Lead researcher</b>   |                     | Dr Monty Silverdale   |
| <b>Start and end date</b>  |                     | Oct 2015-April 2019   |
| <b>Location</b>  |                     | University of Manchester  |
| <b>Cost</b>  |                     | £88,090   |
| <b>Type: Life</b>  |                     | <b>Stage:</b> Scientific discovery                              |
| <p>Monty and his PhD student are measuring brainwaves in response to pain to find out whether the area of the brain responding to pain is overactive in people with Parkinson's. They are also interested in how expectation and levels of brain chemicals, including dopamine and serotonin, can change this response. If the team proves that the area of the brain responding to pain is overactive, it may be possible to use new treatments, such as meditation training, to manage pain.</p> |                     |   |

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| <b>30</b>   | <b>Project name</b> | <b>Looking beyond dopamine for better therapies (G-1504)</b> |
| <b>Lead researcher</b>  |                     | Professor Stephanie Cragg                                    |
| <b>Start and end date</b>   |                     | Sept 2016-Mar 2019   |
| <b>Location</b>   |                     | University of Oxford   |
| <b>Cost</b>   |                     | £297,158   |
| <b>Type: Cure</b>   |                     | <b>Stage:</b> Scientific discovery                           |
| <p>Scientists have recently shown that dopamine cells simultaneously release another chemical messenger called GABA. Drugs that mimic the effects of GABA are already available and used to treat other disorders such as insomnia. If Stephanie's project provides strong evidence that GABA-based drugs could work for Parkinson's, it could lead to these drugs being repurposed to treat Parkinson's.</p> |                     |  |

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| <b>31</b>   | <b>Project name</b> | <b>Exploring anxiety in Parkinson's (G-1503)</b> |
| <b>Lead researcher</b>  |                     | Professor Richard Brown                          |
| <b>Start and end date</b>   |                     | June 2016-Feb 2019                               |
| <b>Location</b>   |                     | King's College London                            |
| <b>Cost</b>   |                     | £140,616   |
| <b>Type: Life</b>   |                     | <b>Stage:</b> Developing treatment               |
| <p>Around half of people with Parkinson's have trouble with anxiety, and for 1 in 4 it is severe enough to require treatment. Without treatment, anxiety can last for years. The team will first investigate if anxiety in Parkinson's is due to extra alertness to danger signals. If so, the team will test a single 30-minute session of a very simple computer training task. This will help the researchers assess the potential of this new and accessible treatment.</p> |                     |  |

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| <b>32</b>  | <b>Project name</b> | <b>Improving motivation in people with Parkinson's (K-1702)</b> |
| <b>Lead researcher</b>   |                     | Dr Claire O'Callaghan   |
| <b>Start and end date</b>  |                     | Aug 2017-Feb 2019   |
| <b>Location</b>  |                     | University of Cambridge   |
| <b>Cost</b>  |                     | £49,677   |
| <b>Type: Life</b>  |                     | <b>Stage:</b> Clinical trials                                   |
| <p>Poor motivation, or apathy, can impact on the quality of life of people with Parkinson's and their families and carers. It is reported in a third of newly diagnosed people. Claire is testing a drug called atomoxetine, which increases the levels of a brain chemical called noradrenaline. She wants to establish if it could be used as a treatment to address poor motivation on a day-to-day basis in people with Parkinson's.</p> |                     |   |

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| <b>33</b>  | <b>Project name</b> | <b>Investigating the waste disposal system in Parkinson's (H-1501)</b> |
| <b>Lead researcher</b>   |                     | Professor Frances Platt  |
| <b>Start and end date</b>  |                     | Jan 2016-Jan 2019  |
| <b>Location</b>  |                     | University of Oxford   |
| <b>Cost</b>  |                     | £100,674   |
| <b>Type: Cure</b>  |                     | <b>Stage:</b> Scientific discovery                                     |
| <p>Fatty molecules called lipids play an important role in keeping the brain working properly. But when lipids are not broken down properly they start to accumulate and cause cells to die. If changes can be made in the amount of different types of lipids in the brain, researchers may be able to use this to help diagnose Parkinson's.</p> |                     |  |

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| <b>34</b>  | <b>Project name</b>       | <b>A trial of melatonin for nocturia in Parkinson's (K-1303)</b> |
|  | <b>Lead researcher</b>    | Dr Jalesh Panicker   |
|  | <b>Start and end date</b> | Mar 2014-Dec 2018  |
|  | <b>Location</b>           | University College London  |
|  | <b>Cost</b>               | £29,798  |
|  | <b>Type:</b> Life         | <b>Stage:</b> Clinical trials                                    |
| <p>Waking up more than once at night to pass urine, called 'nocturia', is a common problem for many people with Parkinson's. Melatonin is already available in the UK as a treatment for sleeplessness. A small study in men with prostate troubles showed that melatonin helped with nocturia. In this study, Jalesh and his colleagues are exploring whether using melatonin may be helpful in managing nocturia in people with Parkinson's.</p> |                           |  |

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| <b>35</b>  | <b>Project name</b>       | <b>A rapid diagnostic test for Parkinson's (G-1501)</b>             |
|  | <b>Lead researcher</b>    | Professor Roger Barker and Professor Hossam Haick                   |
|  | <b>Start and end date</b> | Nov 2015-Nov 2018   |
|  | <b>Location</b>           | University of Cambridge and Technion Israel Institute of Technology |
|  | <b>Cost</b>               | £200,000  |
|  | <b>Type:</b> Cure         | <b>Stage:</b> Scientific discovery                                  |
| <p>The team aims to find out if a breath test can be used to diagnose and monitor the progression of Parkinson's over time, and identify different subtypes of the condition. If successful, they hope to develop a reliable and simple test. This research could also shed new light on the different molecules that play a role in the development of Parkinson's.</p> |                           |   |

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| <b>36</b>  | <b>Project name</b>       | <b>Stopping axon loss in Parkinson's (G-1602)</b> |
|  | <b>Lead researcher</b>    | Professor Michael Coleman                         |
|  | <b>Start and end date</b> | Nov 2016-Nov 2018                                 |
|  | <b>Location</b>           | University of Cambridge                           |
|  | <b>Cost</b>               | £155,934  |
|  | <b>Type:</b> Cure         | <b>Stage:</b> Scientific discovery                |
| <p>The branched ends of brain cells, called axons, are damaged and lost early on in Parkinson's. This project will help us understand the role of axon loss and how it leads to cell death. Michael and his team aim to develop methods to protect axons in Parkinson's. They are using zebrafish to develop a rapid drug screening method that could be used to identify drug-like chemicals with the potential to protect axons.</p> |                           |   |

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| <b>37</b>  | <b>Project name</b>       | <b>Hunting for protective genes in Parkinson's (F-1501)</b> |
|  | <b>Lead researcher</b>    | Dr Emmanouil Metzakopian                                    |
|  | <b>Start and end date</b> | Nov 2015–Nov 2018   |
|  | <b>Location</b>           | Sanger Institute  |
|  | <b>Cost</b>               | £217,062  |
|  | <b>Type: Cure</b>         | <b>Stage: Scientific discovery</b>                          |
| <p>Understanding more about why some people get Parkinson's while others don't, and finding the protective genes responsible, can help scientists develop new protective treatments. Using cells grown in the lab, the team will individually change a single, different gene in each brain cell, using specially designed viruses. The genetically altered brain cells will then be stressed with chemicals that will cause most of the cells to die, helping the researchers find the cells with protective genes.</p> |                           |   |

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| <b>38</b>  | <b>Project name</b>       | <b>Identifying delirium in people with Parkinson's (DETERMINE-PD) (K-1701)</b> |
|  | <b>Lead researcher</b>    | Dr Louise Allan  |
|  | <b>Start and end date</b> | Sept 2017–Nov 2018   |
|  | <b>Location</b>           | Newcastle University   |
|  | <b>Cost</b>               | £29,927  |
|  | <b>Type: Life</b>         | <b>Stage: Scientific discovery</b>   |
| <p>Delirium is difficult to diagnose in people with Parkinson's. This is because it has similar symptoms to Parkinson's and dementia – such as confusion, hallucinations and sleep disturbances. But people will often make a full recovery from delirium if it is recognised and treated early enough. The findings from this study will be used to help develop and evaluate a new tool to identify delirium in people with Parkinson's, so that it can be treated better.</p> |                           |  |

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| <b>39</b>   | <b>Project name</b>       | <b>Towards precision drugs for Parkinson's (G-1508)</b> |
|   | <b>Lead researcher</b>    | Dr Alfonso De Simone                                    |
|   | <b>Start and end date</b> | Oct 2016–Oct 2018                                       |
|   | <b>Location</b>           | Imperial College London                                 |
|   | <b>Cost</b>               | £152,511  |
|   | <b>Type: Cure</b>         | <b>Stage: Developing treatments</b>                     |
| <p>Alfonso and his team are studying alpha-synuclein with the ultimate aim of developing new drugs that can specifically target the sticky toxic form of the protein. The team is using cutting-edge techniques to study how small natural molecules prevent alpha-synuclein from becoming toxic. This could provide the knowledge we need to develop new drugs that can target the toxic form of alpha-synuclein while preserving its normal function.</p> |                           |   |

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| <b>40</b>   | <b>Project name</b> | <b>Improving motor learning and retention in Parkinson's disease through reward (H-1402)</b> |
| <b>Lead researcher</b>  |                     | Dr Ned Jenkinson   |
| <b>Start and end date</b>   |                     | Oct 2015–Oct 2018  |
| <b>Location</b>   |                     | University of Birmingham   |
| <b>Cost</b>   |                     | £83,919  |
| <b>Type: Life</b>   |                     | <b>Stage:</b> Developing treatment   |
| <p>Intervention – such as physiotherapy or speech and language therapy – can be very helpful for people with Parkinson’s. But the benefits of these therapies may be short-lived as research suggests people with Parkinson’s can find it hard to remember newly learnt skills. Ned is studying how people with Parkinson’s learn and remember new movements. He also wants to see if rewards or techniques, such as brain stimulation, can make it easier for people with the condition.</p> |                     |  |

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| <b>41</b>   | <b>Project name</b> | <b>Could SUMO proteins be the key to better treatments? (G-1605)</b> |
| <b>Lead researcher</b>  |                     | Professor Jeremy Henley and Dr Kevin Wilkinson                       |
| <b>Start and end date</b>   |                     | Sept 2017–Sept 2018  |
| <b>Location</b>   |                     | University of Bristol  |
| <b>Cost</b>   |                     | £64,711  |
| <b>Type: Cure</b>   |                     | <b>Stage:</b> Scientific discovery                                   |
| <p>Jeremy and Kevin believe a process called SUMOylation may play a pivotal role in Parkinson’s. SUMO is a tag the cell sticks on to proteins to change their function. The team is using brain tissue donated to research, and brain cells grown in the lab, to reveal vital clues. These will be about how SUMOylation may be able to slow down, prevent or even reverse the damage to mitochondria that leads to brain cell death.</p> |                     |  |

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| <b>42</b>   | <b>Project name</b> | <b>Understanding PINK1 in Parkinson’s (H-1403)</b> |
| <b>Lead researcher</b>  |                     | Dr Miratul Muqit                                   |
| <b>Start and end date</b>   |                     | Sept 2015–Sept 2018                                |
| <b>Location</b>   |                     | University of Dundee                               |
| <b>Cost</b>   |                     | £91,200  |
| <b>Type: Cure</b>   |                     | <b>Stage:</b> Scientific discovery                 |
| <p>The PINK1 gene produces a protein that is found in mitochondria and protects them from damage. But PINK1 also interacts with lots of other proteins. This project will help us understand how PINK1 interacts with a set of proteins, called GTPases, that we currently know very little about in relation to Parkinson’s.</p> |                     |  |

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| <b>43</b>   | <b>Project name</b> | <b>Stopping the build-up of alpha-synuclein (G-1403)</b> |
| <b>Lead researcher</b>  |                     | Professor Anthony Schapira                               |
| <b>Start and end date</b>   |                     | Feb 2015–Aug 2018  |
| <b>Location</b>   |                     | University College London                                |
| <b>Cost</b>   |                     | £307,081   |
| <b>Type: Cure</b>   |                     | <b>Stage:</b> Developing treatments                      |
| <p>Changes in the GBA1 gene are linked to Parkinson's. Recently, Anthony's team has found that these mutations mean the GCase protein doesn't work properly and cause alpha synuclein to build up. The team is using a drug that has been shown to improve GCase function in human cells. They will test the drug in mice with Parkinson's-like symptoms that have different GBA1 mutations to see if it can reduce the amount of alpha-synuclein in brain cells.</p> |                     |  |

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| <b>44</b>  | <b>Project name</b> | <b>Towards treatments for Parkinson's dementia (J-1401)</b> |
| <b>Lead researcher</b>   |                     | Professor Roger Barker                                      |
| <b>Start and end date</b>  |                     | Aug 2014–Aug 2018   |
| <b>Location</b>  |                     | University of Cambridge                                     |
| <b>Cost</b>  |                     | £135,047  |
| <b>Type: Life</b>  |                     | <b>Stage:</b> Developing treatments                         |
| <p>Current animal models don't mimic the slow progression of the condition, and often don't represent non-motor symptoms such as dementia. Professor Roger Barker and his team aim to develop a new rat model of Parkinson's that more faithfully replicates these symptoms. Once they're happy with the model, the team will use it to test a drug that has previously been shown to protect nerve cells in other animal models of Parkinson's.</p> |                     |   |

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| <b>45</b>   | <b>Project name</b> | <b>Taking positive steps to prevent falls (K-1505)</b> |
| <b>Lead researcher</b>  |                     | Dr Katherine Baker                                     |
| <b>Start and end date</b>   |                     | Apr 2016–July 2018                                     |
| <b>Location</b>   |                     | Northumbria University                                 |
| <b>Cost</b>   |                     | £38,592  |
| <b>Type: Life</b>   |                     | <b>Stage:</b> Scientific discovery                     |
| <p>Katherine is using wearable technology to shed new light on the complex relationship between physical activity and falls in Parkinson's. Over the course of a week, participants are asked to wear an activity monitor to record their movement, and a small body-worn camera that automatically takes photos at regular intervals. The new knowledge this study produces will empower people to manage their condition more effectively and reduce their risk of falling.</p> |                     |  |

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| <b>46</b>  | <b>Project name</b> | <b>Developing better brain scans for Parkinson's (J-1204)</b> |
| <b>Lead researcher</b>   |                     | Professor Dorothee Auer                                       |
| <b>Start and end date</b>  |                     | Jan 2014-July 2018  |
| <b>Location</b>  |                     | University of Nottingham                                      |
| <b>Cost</b>  |                     | £657,105  |
| <b>Type: Cure</b>  |                     | <b>Stage: Scientific discovery</b>                            |
| <p>This project builds on the Parkinson's UK-funded Tracking Parkinson's study, with Dorothee inviting people in this study to have advanced MRI scans. Her anonymised data will be made available to the research community as a virtual brain bank. Ultimately, this research project aims to develop highly accurate and sensitive new brain imaging techniques for Parkinson's, which would revolutionise the diagnosis and management of the condition.</p> |                     |   |

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| <b>47</b>   | <b>Project name</b> | <b>Using genetics to find new drugs for Parkinson's (K-1602)</b> |
| <b>Lead researcher</b>  |                     | Professor Nigel Williams   |
| <b>Start and end date</b>   |                     | July 2017-July 2018  |
| <b>Location</b>   |                     | Cardiff University   |
| <b>Cost</b>   |                     | £45,903  |
| <b>Type: Cure</b>   |                     | <b>Stage: Scientific discovery</b>                               |
| <p>Nigel and his team believe they can overcome the challenges that have prevented researchers combining our knowledge of Parkinson's risk genes with how different medications work. They hope their analysis will find drugs that are used to treat other conditions, which may have potential for Parkinson's. The project could also highlight pathways that are not being targeted by current medications, which may be key to developing new and better treatments.</p> |                     |  |

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| <b>48</b>  | <b>Project name</b> | <b>Using analogies to overcome freezing (K-1604)</b> |
| <b>Lead researcher</b>   |                     | Dr William Young                                     |
| <b>Start and end date</b>  |                     | May 2017-July 2018                                   |
| <b>Location</b>  |                     | Brunel University                                    |
| <b>Cost</b>  |                     | £35,536  |
| <b>Type: Life</b>  |                     | <b>Stage: Developing treatment</b>                   |
| <p>One of the main difficulties with freezing is that it is hard for people to start walking again. To make a first step, balance needs to be adjusted in a specific way. Will aims to develop analogies to help people adjust their balance and take their first step after freezing. Will and his team are putting people with Parkinson's in situations where they are more likely to freeze. This is to see if using the technique is an effective way to overcome freezing episodes and reduce anxiety.</p> |                     |  |

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| <b>49</b>   | <b>Project name</b> | <b>A new direction for bladder problems (K-1601)</b> |
| <b>Lead researcher</b>  |                     | Dr Claire McDonald                                   |
| <b>Start and end date</b>   |                     | March 2017-July 2018                                 |
| <b>Location</b>   |                     | Newcastle University                                 |
| <b>Cost</b>   |                     | £28,716  |
| <b>Type: Life</b>   |                     | <b>Stage: Clinical trials</b>                        |
| <p>Urinary problems are one of the top research priorities for improving quality of life for people with Parkinson's. So a treatment for bladder problems could have a big impact on the everyday lives of people affected by the condition. Claire has designed a new bladder-training programme. The project is looking to test benefits for people with Parkinson's in a pilot study (a small trial that helps researchers understand the best way to conduct larger studies).</p> |                     |  |

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| <b>50</b>  | <b>Project name</b> | <b>Can existing drugs help the brain protect itself against Parkinson's? (G-1604)</b> |
| <b>Lead researcher</b>   |                     | Dr Susan Duty   |
| <b>Start and end date</b>  |                     | Feb 2017-May 2018   |
| <b>Location</b>  |                     | King's College London   |
| <b>Cost</b>  |                     | £77,758   |
| <b>Type: Cure</b>  |                     | <b>Stage: Developing treatments</b>   |
| <p>Growth factors – naturally produced proteins that help to nourish and protect brain cells – are a promising avenue for developing new treatments. The team has already used computer software to look at the properties of thousands of approved drugs, pinpointing 45 with potential for boosting the production of a growth factor called FGF20. They plan to identify six drugs with the most potential to be repurposed to treat Parkinson's.</p> |                     |   |

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| <b>51</b>  | <b>Project name</b> | <b>Changes in mitochondrial DNA in Parkinson's (F-1202)</b> |
| <b>Lead researcher</b>   |                     | Dr Gavin Hudson   |
| <b>Start and end date</b>  |                     | Oct 2012-Apr 2018   |
| <b>Location</b>  |                     | Newcastle University  |
| <b>Cost</b>  |                     | £249,385  |
| <b>Type: Cure</b>  |                     | <b>Stage: Scientific discovery</b>                          |
| <p>Most DNA is found inside the nucleus – the control centre at the heart of each cell. But mitochondria have a small amount of their own DNA. This DNA codes for a handful of proteins, which play an important part in the process that mitochondria use to generate energy. Gavin has made real progress identifying inherited and random mutation in mitochondria DNA. The team is now investigating how these mutations have an effect on individuals with Parkinson's.</p> |                     |   |

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| <b>52</b>   | <b>Project name</b> | <b>Sniffing out biomarkers for Parkinson's (K-1504)</b> |
| <b>Lead researcher</b>  |                     | Professor Perdita Barran                                |
| <b>Start and end date</b>   |                     | Apr 2016–Apr 2018                                       |
| <b>Location</b>   |                     | University of Manchester                                |
| <b>Cost</b>   |                     | £49,459   |
| <b>Type: Cure</b>   |                     | <b>Stage:</b> Scientific discovery                      |
| <p>Perdita and her colleagues have been working with a woman from Perth who can 'smell' Parkinson's. Some early tests found that there are different chemicals present on the skin surface of people with and without Parkinson's, which may be what she can smell. The researchers are now conducting a more in-depth study to find out what these chemicals are, and if they could be developed into a new diagnostic test.</p> |                     |   |

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| <b>53</b>  | <b>Project name</b> | <b>Tracking Parkinson's: searching for biomarkers (J-1301)</b> |
| <b>Lead researcher</b>   |                     | Professor Simon Lovestone                                      |
| <b>Start and end date</b>  |                     | Apr 2014–Apr 2018  |
| <b>Location</b>  |                     | University of Oxford and University of Glasgow                 |
| <b>Cost</b>  |                     | £749,888   |
| <b>Type: Cure</b>  |                     | <b>Stage:</b> Scientific discovery                             |
| <p>Building on the Tracking Parkinson's project, this study is looking for changes in blood and fluid that surrounds the brain. The team will compare people with different levels of symptom severity, rates of progression and amounts of thinking and memory problems, as well as people with and without Parkinson's. The hope is that this approach will lead to more reliable and useful biomarkers.</p> |                     |  |

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| <b>54</b>  | <b>Project name</b> | <b>A drug trial to improve balance and prevent falls (F-1003)</b> |
| <b>Lead researcher</b>   |                     | Dr Emily Henderson  |
| <b>Start and end date</b>  |                     | Apr 2011–Apr 2018   |
| <b>Location</b>  |                     | University of Bristol   |
| <b>Cost</b>  |                     | £249,998  |
| <b>Type: Life</b>  |                     | <b>Stage:</b> Clinical trials                                     |
| <p>Emily will study people with Parkinson's who are prone to balance problems and falls. Half the group will take capsules containing rivastigmine – a drug already used in Parkinson's to treat memory and thinking problems – and the other half will take a placebo. By the project's end, Emily hopes to find out whether this drug has potential. This could lead to larger trials and the development of effective medications to improve balance and prevent falls.</p> |                     |   |



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Every hour, two people in the UK are told they have Parkinson's – a brain condition that turns lives upside down, leaving a future full of uncertainty.

Parkinson's UK is here to make sure people have whatever they need to take back control – from information to inspiration.

We want everyone to get the best health and social care. So we bring professionals together to drive improvements that enable people to live life to the full.

Ultimately, we want to end Parkinson's. That's why we inspire and support the international research community to develop life-changing treatments, faster. And we won't stop until we find a cure.

**Together we can bring forward the day  
when no one fears Parkinson's.**

Parkinson's UK  
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London SW1V 1EJ

Free confidential helpline **0808 800 0303**  
(Monday to Friday 9am–7pm,  
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NGT Relay **18001 0808 800 0303**  
(for textphone users only)

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