

# Hackathon

Open science and collaboration are necessary to facilitate the advancement of Parkinson's disease (PD) research. Hackathons are collaborative events that bring together people with different skill sets and backgrounds to generate resources and creative solutions to problems. These events can be used as training and networking opportunities, thus we coordinated a virtual 3-day hackathon event, during which 49 early-career scientists from 12 countries built tools and pipelines with a focus on PD. Resources were created with the goal of helping scientists accelerate their own research by having access to the necessary code and tools. Each team was allocated one of nine different projects, each with a different goal. These included developing post-genome-wide association studies (GWAS) analysis pipelines, downstream analysis of genetic variation pipelines, and various visualization tools. Hackathons are a valuable approach to inspire creative thinking, supplement training in data science, and foster collaborative scientific relationships, which are foundational practices for early-career researchers. The resources generated can be used to accelerate research on the genetics of PD <sup>1)</sup>.

<sup>1)</sup>

Leonard HL, Murtadha R, Martinez-Carrasco A, Jama A, Müller-Nedebock AC, Gil-Martinez AL, Illarionova A, Moore A, Bustos BI, Jadhav B, Huxford B, Storm C, Towns C, Vitale D, Chetty D, Yu E, Grenn FP, Salazar G, Rateau G, Iwaki H, Elsayed I, Foote IF, Jansen van Rensburg Z, Kim JJ, Yuan J, Lake J, Brolin K, Senkevich K, Wu L, Tan MMX, Perinán MT, Makarios MB, Ta M, Pillay NS, Betancor OL, Reyes-Pérez PR, Alvarez Jerez P, Saini P, Al-Ouran R, Sivakumar R, Real R, Reynolds RH, Hu R, Abrahams S, Rao SC, Antar T, Leal TP, Iankova V, Scotton WJ, Song Y, Singleton A, Nalls MA, Dey S, Bandres-Ciga S, Blauwendraat C, Noyce AJ; International Parkinson Disease Genomics Consortium (IPDGC) and The Global Parkinson's Genetics Program (GP2). The IPDGC/GP2 Hackathon - an open science event for training in data science, genomics, and collaboration using Parkinson's disease data. NPJ Parkinsons Dis. 2023 Mar 4;9(1):33. doi: 10.1038/s41531-023-00472-6. PMID: 36871034.

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