**Abstract Submission Form – PET is Wonderful 2021**

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| **Title**  **(Max. 250 characters inc. spaces)** | OpenNeuro PET: Campaign to Combat PET Data Entropy |
| **Authors**  **(Max. 250 characters inc. spaces)** | Gitte Moos Knudsen, Robert Innis, Melanie Ganz-Benjaminsen, Adam Thomas, Cyril Pernet, Martin Nørgaard, Douglas Greeve,  Russel Poldrak, Paul Wighton, Anthony Galassi |
| **Affiliations**  **(Max. 250 characters inc. spaces)** | OpenNeuro PET, Stanford University, National Institutes of Health, Massachusetts General Hospital, Neurobiology Research Unit at Copenhagen University |
| **Body of abstract (1500 characters inc. spaces)** | Little standardization exists among PET Neuroimaging data; analysis tools and methods are often as unique and inaccessible as the data they are used on.  These factors compound deleteriously leading to irreproducibility and duplication of work within the community.  OpenNeuro PET (ONP) seeks to ameliorate some of these issues by introducing further standardization and a platform to share PET data. ONP is a project built around OpenNeuro1 and BIDS2 that aims primarily at developing data sharing openly (CC0) or securely (DUA-GDPR) with united front-end and user-friendly tools for the BIDS based data curation of PET data.  To support this effort ONP has integrated PET into the BIDS standard with BIDS Extension Proposal 009 (BEP0097) and is conducting further work to introduce PET Pre-processing derivatives into the standard with BEP0238. Additionally, ONP has contributed software to validate BIDS formatted PET data with the BIDS Validator5 and has developed PET Neuroimaging and metadata conversion software6 from image and tabular formats such as DICOM, ECAT, csv, and xlsx into BIDS.  ONP continues to work on updating OpenNeuro.org to better support PET and is working with popular Neuroimaging libraries such as Nibabel3 and PetSurfer4 to better support PET both within and outside of the PET BIDS standard.  Sources  1) [OpenNeuro](https://openneuro.org/)  2) [BIDS](https://bids.neuroimaging.io/)  3) [Nibabel](https://nipy.org/nibabel/)  4) [PetSurfer](https://surfer.nmr.mgh.harvard.edu/fswiki/PetSurfer)  5) [BIDS Validator](https://github.com/bids-standard/bids-validator)  6) [Converters](https://github.com/openneuropet/BIDS-converter)  7) [BEP 009](https://github.com/bids-standard/bids-specification/pull/633)  8) [BEP 023](https://docs.google.com/document/d/1yzsd1J9GT-aA0DWhdlgNr5LCu6_gvbjLyfvYq2FuxlY/edit) |
| **Figure [insert here]** | **Figure legend [insert here]** |

Please email complete form as Word file to: [PiWTeam@ed.ac.uk](mailto:PiWTeam@ed.ac.uk)

**Abstract submission deadline: 31st July 2021 at midnight (UK time).**

**For Reviewers use ONLY:**

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| **Importance of the problem or topic** | | **The approach (design/methods)** | | **Findings** | | **Consequences (significance)** | |
|  | Very high |  | Excellent |  | Ground-breaking |  | Ground-breaking |
|  | High |  | Very good |  | Very interesting |  | Very interesting |
|  | Moderate |  | Good |  | Interesting |  | Interesting |
|  | Low |  | Poor |  | Not interesting |  | Not interesting |
|  | Very low |  | Very poor |  |  |  |  |

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| **Overall score (1=worst and 5=best)** |  |