Study Comparison Table

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Understanding Society**UK household longitudinal study UKHLSincludes [British Household Panel Survey](https://www.understandingsociety.ac.uk/about/bhps-in-understanding-society) (BHPS) data | **1958 birth cohort**National Child Development Survey NCDS | **BCS70**1970 birth cohort | **Millennium** | **UK Twins** | **ELSA** |
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| **Incidental findings** | No findings returned currently. | No findings returned currently.  |  |  | Clinically helpful findings returned |  |
| **METADAC Role** | Linked genetic and phenotype data. | All exome sequence data. All biosamples, DNA. *linked* genetic and phenotype data.?methylation? | Linked genetic and phenotype data.? methylation? |  | METADAC to consider only difficult decisions |  |
| **Tissue bank approval** | Planned | Yes | Yes | Yes |  | No |
| **Commercial use** | Commercial use excluded. | Commercial use Excluded. |  |  |  | ‘won’t work with commercial partners’ but UCL to be paid a share of any commercial benefit. |
| **Paid-for Access?** | No | For samples but not data |  |  |  | At cost. Invoice to be settled before data issue.Genotyping to be done in-house, paid for; surcharge for cherry-picking. |
| **Exclusions** | UK only, for linked genotype-phenotype data | Data from biological resource may not be used to investigate intelligence, criminality or sexuality. The expectation is for health related research. |  |  |  |  |
| **Ethnic diversity** | National diversity represented plus additional subgroup | Largely white-British, particularly in the genetic data. |  |  |  | Low representation of ethnic minorities |
| **Age** | Disclosive in oldest subset | Not disclosive: all equal age | Not disclosive: all equal age | Not disclosive: all equal age |  | 50+ |
| **Biosamples/ DNA** | (Stored but not available) DNA, plasma, serum and whole blood samples | Blood, plasma, salivaWhole blood DNA, cell-line DNA. (Collected 2002-3) | Whole bloods will be collected in 2016/17. | Milk teeth.Saliva from age 3 is *depleted*; saliva at age 14 collected in2015. Non-renewable DNA to be prepared. | n/a |  |
| **Imputed data** | Soon | Yes |  |  |  | Yes |
| **Cohort profile** |  | <http://ije.oxfordjournals.org/content/35/1/34.long>  |  |  |  | <http://ije.oxfordjournals.org/content/42/6/1640.long> Enc of Geropsychology 2016 10.1007/978-981-287-080-3\_52-1 |

1958BC resource-specific information

Exome sequencing dataset:
 [ICR web-site](http://www.icr.ac.uk/our-research/research-divisions/division-of-genetics-and-epidemiology/genetic-susceptibility/genetic-data-and-software-resources/icr1000-exome-series)) *Authors who use the ICR1000 dataset should please acknowledge use with the following wording: "This study makes use of the ICR1000 dataset generated by Professor Nazneen Rahman’s Team in the Division of Genetics & Epidemiology at The Institute of Cancer Research, London ”.*

**Examples of difference:**

- consents vary slightly (ACCC & UKHLS do not allow commercial use, ACCC has restricted variables.)

- the available samples vary across cohorts and studies generating different issues

- the 1958 birth cohort participants were all born in the same week, affecting identifiability; USoc has different issues of disclosure as a clustered study

- Millennium cohort with younger participants – keeps school identities confidential under its (duty of care) but this is not considered an issue for older participants in 1958 cohort.