INTRODUCTION

The Avon Longitudinal Study of Parents and Children (ALSPAC), also known as the Children of the 90s, is a world-leading birth cohort study.

- 14,000 pregnant women were recruited between April 1991 and December 1992.
- These women, their children and partners have been followed intensively for >26yrs.
- Recruitment of the next generation of children (ALSPAC G2) is now underway.

FIGURE 1. FAMILY STRUCTURE

ASSOCIATED DATA

A vast array of data has been collected from the study participants – for full details see www.bristol.ac.uk/alspac/researchers/our-data/

Data includes the following – collected at many timepoints:
- Questionnaires – covering a wide range of topics
- Hands-on measures from research clinics – includes anthropometry, cardiovascular (e.g. blood pressure, carotid artery scan, echocardiograph), bone (DXA, qGCT), respiratory (lung function, spirometry), vision, hearing, mental health, cognitive and social measures
- Targeted substudies - detailed phenotypes e.g. MRI scans, asthma and eczema measures
- Linkage to routine health and social records – e.g. CR, civic registration
- Sample derived data – clinical measures, metabolomics, genetic analysis (e.g. GWAS, whole genome sequencing, copy number variation, mitochondrial copy number), expression and epigenetic (genome wide methylation) data

ALSPAC BIOBANK OBJECTIVES

ALSPAC’s objective is to provide a comprehensive resource for the scientific community.

- Samples and data are available to researchers through a straightforward access process.
- Researchers apply via an online proposal system - proposals reviewed on a weekly basis.
- Laboratory team provide support for researcher before and throughout the process.
- A dedicated email address is provided for enquiries (bbi-info@bristol.ac.uk)
- New sample collection can be facilitated including recall by genotype or phenotype
- Users are required to return data to ALSPAC to become part of the resource
- Users are required to cover costs of supplying samples and data on a cost recovery basis.

USAGE STATISTICS

- On average, 20 applications to access samples are received each year. The resource also receives over 200 requests for data each year.
- Median time to supply samples in last 18 months was 12 days (range 0-69) once funding (when grant needed) and MTA were in place (time from approval was 69 days (0-4551))
- >1,800 peer reviewed papers have been published using the ALSPAC resource. 161 have been published in 2018 and over 56% of these would not have been possible without samples from the biobank. This includes primary sample use and secondary data analysis

TABLE 1: G0 MOTHERS SAMPLES

| TABLE 2: G0 PARTNERS

| TABLE 3: G0 CHILDREN

| TABLE 4: G1 MOTHERS

| TABLE 5: G1 CHILDREN

| TABLE 6: G2 MOTHERS

| TABLE 7: G2 CHILDREN

| TABLE 8: G3 MOTHERS

| TABLE 9: G3 CHILDREN

ASSOCIATED DATA

ALSPAC BIOBANK

The ALSPAC Biobank has been collecting samples from the outset of the ALSPAC study.

- Over 1.2 million aliquots of samples now include DNA, RNA, Plasma, Serum, Urine, Blood, Hair
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