British Library repository service developments

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As part of its work to open its data to wider use, the British Library is making copies of some of its datasets available for research and creative purposes. We aim to describe collections in terms of their data format (images, full text, metadata, etc.), licences, temporal and geographic scope, originating purpose (e.g. specific digitisation projects or exhibitions) and collection, and related subjects or themes. This site is a 'beta', and is in the early stages of development.

If you have questions or feedback about this site or our open data work, please contact the Digital Research team, please email digitalresearch@bl.uk. We'd also love to hear what you've done or made with the data.

The dataset collections below are listed in alphabetical order.

A collection of datasets released by the British Library

British Library Labs: Projects

1 dataset.

Datasets created by the British Library Labs Competition winning projects. Many derived from the open datasets available on this site. Includes datasets from "SherlockNet: Using
EThOS
Free access to UK doctoral theses
e-theses online service
http://ethos.bl.uk
BL research

Research collaboration

We lead, support and inspire research across all disciplines and subject areas

We support and stimulate research of all kinds, working with the national and international research community to generate new knowledge and resources for the benefit of UK research and the public.

We play a key role in research information infrastructure through service development and delivery. Research also underpins our cultural and learning programmes, as well as our remit to advance knowledge and understanding around the world.

Contact us

t: +44 (0)1937 546060
e: research.development@bl.uk
BL Research Collaboration

**Doctoral research**
We support postgraduate research through our Reading Rooms and online resources, through collaborative projects, and through research training events.

**Projects and partnerships**
We work closely with the research community to enhance our collections and generate new knowledge about them.

**Research expertise**
Our research, professional and methodological expertise covers all disciplines and spans traditional and digital scholarship in all its forms.

**Training and events**
We convene and support research events and training activities throughout the year.

**Policy**
As the national library of the United Kingdom, we are an integral part of the national research infrastructure and have an active approach to research and higher education policy.
Title: The immunopathology of erythema nodosum leprosum
Author: Gobana, Edessa
Awarding Body: London School of Hygiene & Tropical Medicine
Current Institution: London School of Hygiene and Tropical Medicine (University of London)
Date of Award: 2016

Abstract:
Leprosy is a disease caused by Mycobacterium leprae, an acid-fast bacillus whose clinical spectrum correlates with the host immune response. Erythema nodosum leprosum (ENL) is an immune-mediated inflammatory complication causing high morbidity in affected leprosy patients. A case-control follow-up study was conducted in Ethiopia to test the hypothesis that ENL is associated with impaired immune regulation. In 48 patients with ENL and 31 lepromatous leprosy (LL) matched controls, the frequency of regulatory T-cells, memory T-cells and B-cells were analysed by flow cytometry. The in vitro pro-inflammatory cytokines production by peripheral blood mononuclear cells (PBMCs) to the response of M. leprae whole cell sonicate stimulation was determined by Enzyme-linked immunosorbent assay. The gene expression of these cytokines in the skin and skin biopsies was determined by quantitative polymerase chain reaction (qPCR) before and after treatment. Patients with ENL had lower percentage of CD4+ regulatory T-cells than LL controls at recruitment. The percentage of CD3+, CD4+ and CD8+ T-cells expressing activated T-cells were significantly higher in the PBMCs of patients with ENL than in LL controls before treatment. The in vitro production and gene expression of the cytokines, TNF-α, IFN-γ, IL-19, IL-6, IL-8 and IL-17A were significantly increased in untreated patients with ENL. ENL patients had a higher median percentage of tissue-like memory (TLM) and activated memory (AM) B-cells than LL controls before treatment while the median percentage of total B-cells and resting memory (RM) B-cells did not significantly different in both groups before treatment. The level of anti-FSL-1, LAM and Ag95 antibodies were not significantly different in patients with ENL before treatment. Patients with ENL had significantly lower circulating C1q than LL controls before treatment. However, after treatment, the amount of circulating C1q was not significantly different in both groups. Our findings suggest that ENL is associated with reduced percentage of regulatory T-cells and increased CD4+/CD8+ T-cell ratio and this immune imbalance may lead to the initiation of ENL reactions in either permitting productions of antibodies critical to an immune-complex formation or as a cell-mediated immune response in patients with leprosy. Consequently, this study illuminates the role of T-cell activation in the pathogenesis of ENL reaction and challenges the long-standing dogma of immune-complexes as the sole aetiology of ENL reactions.
Usage of UK theses in one month

69,000 views
EThOS: priorities now

- Improve handling of large and non-text files
- Identifiers – DOI for all UK theses?
- Digitise old theses to achieve full national archive
- British Library preservation service for theses
Replacing the BL Digital Library System

- BL’s preservation system – 10 years old, built in-house
- July 2017 – ITT for replacement; 2018 - build
- Enhance capacity for BL – but could offer to others

<table>
<thead>
<tr>
<th>Current system (solely BL)</th>
<th>Replacement (shared service)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single tenant (British Library)</td>
<td>Multi-tenancy enabled</td>
</tr>
<tr>
<td>Preservation-focused system</td>
<td>Preservation and access</td>
</tr>
<tr>
<td>800 TB, replicated over four sites</td>
<td>Dramatic increase in scalability</td>
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</tbody>
</table>
EThOS: access and/or preservation

• EThOS as an access service continues

• Thesis preservation service offered by BL

• HEIs choose:
  – Downloadable theses available in EThOS
  – Preservation copies held in DAMPS
  – Either, both or neither

• Pending DAMPS launch, the BL IR is used as the ingest channel for all content:
  – Accessible theses surfaced in EThOS
  – Preservation-only copies permanently embargoed until transfer to DAMPS
New repository infrastructure

- EThOS
- Data.bl.uk
- British Library Institutional Repository
- Partner Repositories

Access Repository System Layer

Services Layer (e.g. digitisation & analytics)

British Library Preservation Layer
Pilot Shared IRO Repository?

- 3 workshops; user journeys
- Informal expressions of interest
- Survey of item types
  - Journal articles (OA mandates)
  - Complex multimedia files – CT scans, html, interactives
  - “Defiant objects” - [https://defiantobjects.wordpress.com/](https://defiantobjects.wordpress.com/)
  - Mostly PDFs
- Existing repositories & CRIS systems
- Talking to suppliers, building BL expertise
- Costs & approach
A shared access repository

This repository provides access to articles, conference papers and many other research outputs produced by researchers based in the UK’s museums, galleries and major libraries. We aim to provide free, immediate access to as many items as possible.

UK Cheese Library
National Lib of Jelly
Museum of Jelly
Museum of Cheese
British Library research outputs
National Image Gallery
Museum of Yorkshire
Etc, etc ...

Search ROCO now
Separate landing page for each IRO

Museum of Jelly repository

Welcome to the MoJ repository. Here you can discover and access all the research publications produced by researchers at MoJ.

Search MoJ collections now

Latest additions [link]

About this repository [link]

Repository policies [link]
Next steps

• New & growing team at BL

• ITT for a pilot phase - January

• Agree requirements – first stage, and beyond

• Start small: invite few IROs to be pilot partners – give us time rather than funds: feed in reqts, guidance, testing, first adopters

• Costs & charges

• Approach to preservation

• Governance, policies, service levels, workflows.
Thank you
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