

# Digital Preservation Case Study: Community Action via UK LOCKSS Alliance

Adam Rusbridge

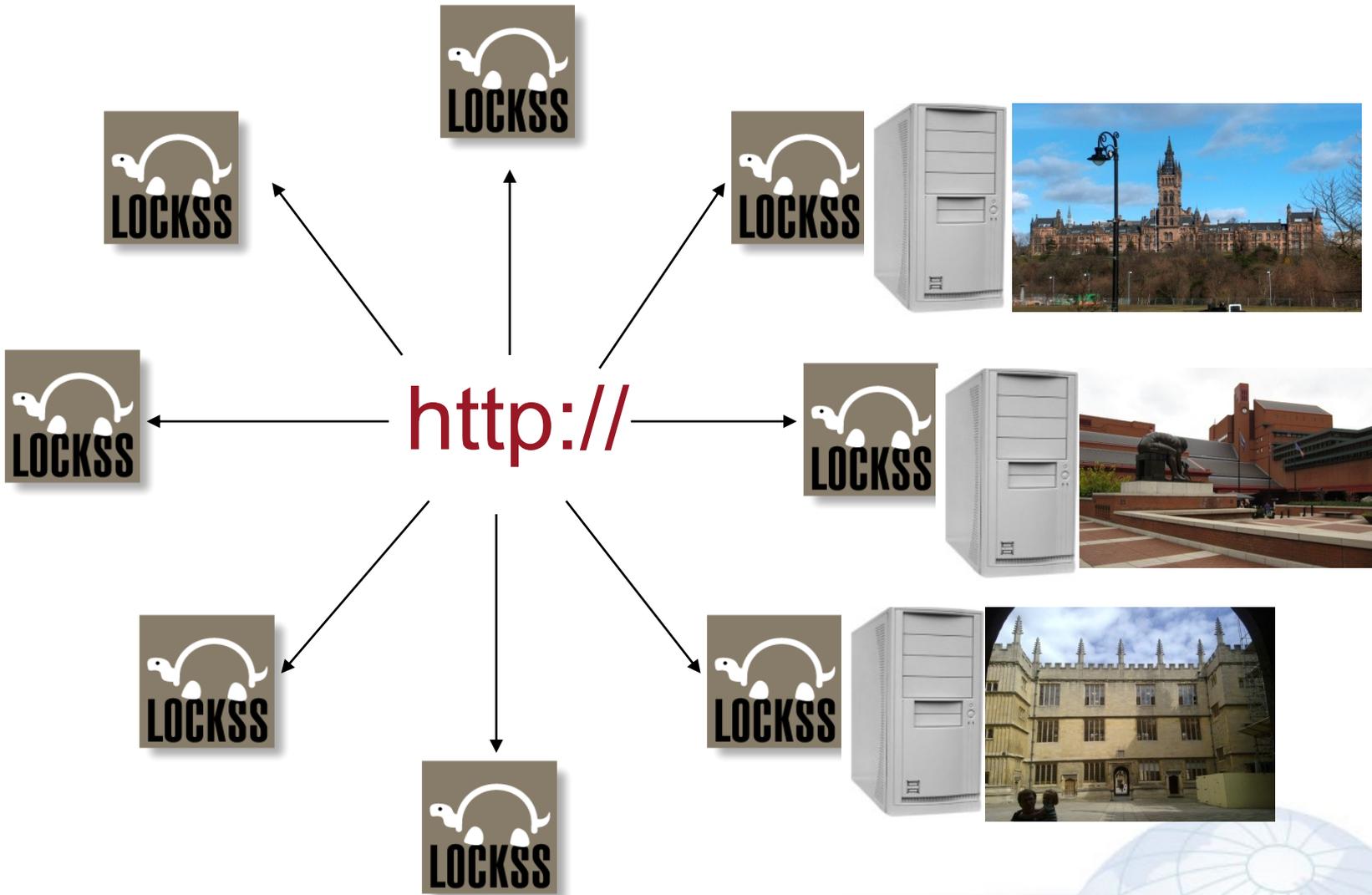
UK LOCKSS Alliance Coordinator

EDINA, University of Edinburgh

# Threats to Digital Material

- Can we still access the subscribed journals if we stop paying subscription (post-cancellation access)?
- What happens if a publisher discontinues a journal?
- What happens if a publisher goes bust?
- Will we still be able to view current formats in the long term?

# A LOCKSS Box is a Digital Bookshelf



# Preserving Web Published Content

...journals, books, blogs, web sites, scanned files, audio, video animations, social science datasets, moving images, still images, software, sound, text, e-thesis & dissertations, images, government documents...

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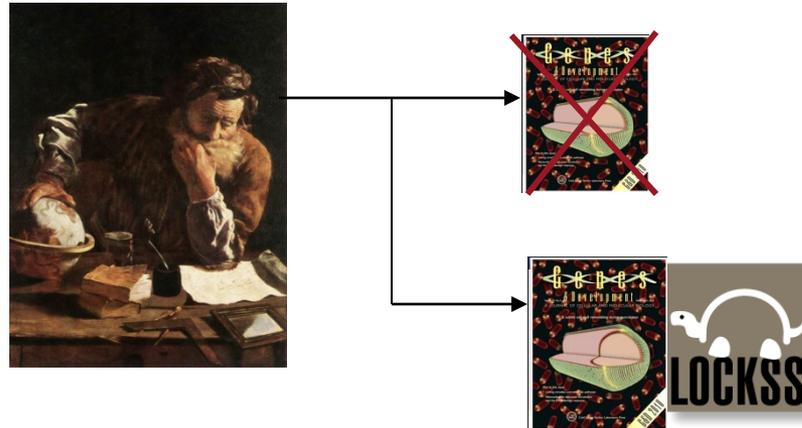
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# Continuing Access

- Access in short term and long term



- Continuing access following cancellation
- Access is not dependent upon continuing membership

## The UK LOCKSS Alliance

Today's Scholarly Content, Secured For Tomorrow

EDINA

- *The UK LOCKSS Alliance is a co-operative organization whose goal is to ensure continuing access to scholarly work in ways that are sustainable over the long term.*
- LOCKSS allows libraries to be involved in the development of journal preservation infrastructure and collections.
  - EDINA offers underlying technical support and coordination

# Motivations to participate

- A library task is to manage risk in order to ensure long term preservation and access.
  - What approach best suits your needs?
- Why participate in preservation initiatives?
  - Cost savings: post-cancellation access
  - Form of insurance for high value e-only subscriptions
- Participation in journal archiving initiatives is still relatively low
  - Need different initiatives?
  - Other benefits – or different articulation?
  - Is it the cost?
  - Are people waiting for others to lead; a tipping point?

# What did we do before?

Print collections are an **effective decentralized** preservation system

- Many copies of most things
- Scattered around the world
  - Held under different legal regimes
  - Held under different administrative regimes
- Distributed responsibility reduces risk of accidental loss

# Why do systems fail?

- Media failure
- Hardware failure
- Software failure
- Network failure
- Format obsolescence
- Natural disaster
- Economic failure
- Organization failure
- Operator error
- External attack
- Insider attack

# How LOCKSS Works

LOCKSS: Modern technology meets the decentralization and local control model of print collections.

# Significant Properties

Journal of **Visualized Experiments** New Account Forged Password Email Password **Sign In**

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## Using an Automated Cell Counter to Simplify Gene Expression Studies: siRNA Knockdown of IL-4 Dependent Gene Expression in Namalwa Cells

Adam M. McCoy, Claudia Litterst, Michelle L. Collins, Luis A. Ugozzoli  
Gene Expression Division, Bio-Rad Laboratories



0:00	Title
0:49	Intro
1:16	Preparing and Counting the Namalwa Cells
4:17	Electroporating the Cells in 96-well Plates
5:55	Extract and Check RNA
7:54	Real-time PCR
8:58	Analysis of Gene Expression
10:03	Conclusion

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### Abstract

The use of siRNA mediated gene knockdown is continuing to be an important tool in studies of gene expression. siRNA studies are being conducted not only to study the effects of downregulating single genes, but also to interrogate signaling pathways and other complex interaction networks. These pathway analyses require both the use of relevant cellular models and methods that cause less perturbation to the cellular physiology. Electroporation is increasingly being used as an effective way to introduce siRNA and other nucleic acids into difficult to transfect cell lines and primary cells without altering the signaling pathway under investigation. There are multiple critical steps to a successful siRNA experiment, and there are ways to simplify the work while improving the data quality at several experimental stages. To help you get started with your siRNA mediated gene knockdown project, we will demonstrate how to perform a pathway study complete from collecting and counting the cells prior to electroporation through post transfection real-time PCR gene expression analysis. The following study investigates the role of the transcriptional activator STAT6 in IL-4 dependent gene expression of CCL17 in a Burkitt lymphoma cell line (Namalwa). The techniques demonstrated are useful for a wide range of siRNA-based experiments on both adherent and suspension cells. We will also show how to streamline cell counting with the TC10 automated cell counter, how to electroporate multiple samples simultaneously using the MXcell electroporation system, and how to simultaneously assess RNA quality and quantity with the Experion automated electrophoresis system.

### Files

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**Publication Criteria**

**Keywords**  
[Cellular Biology](#), [Issue 38](#), [Cell Counting](#), [Gene Silencing](#), [siRNA](#), [Namalwa Cells](#), [IL4](#), [Gene Expression](#), [Electroporation](#), [Real Time PCR](#)

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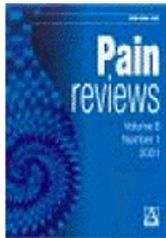
# Publishers Give Permission

## Pain Reviews

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**Ceased publication in December 2002**

[visit publication homepage](#)



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→ This journal has ceased publication and will be removed from IngentaConnect in October 2009. The content will be available via LOCKSS.

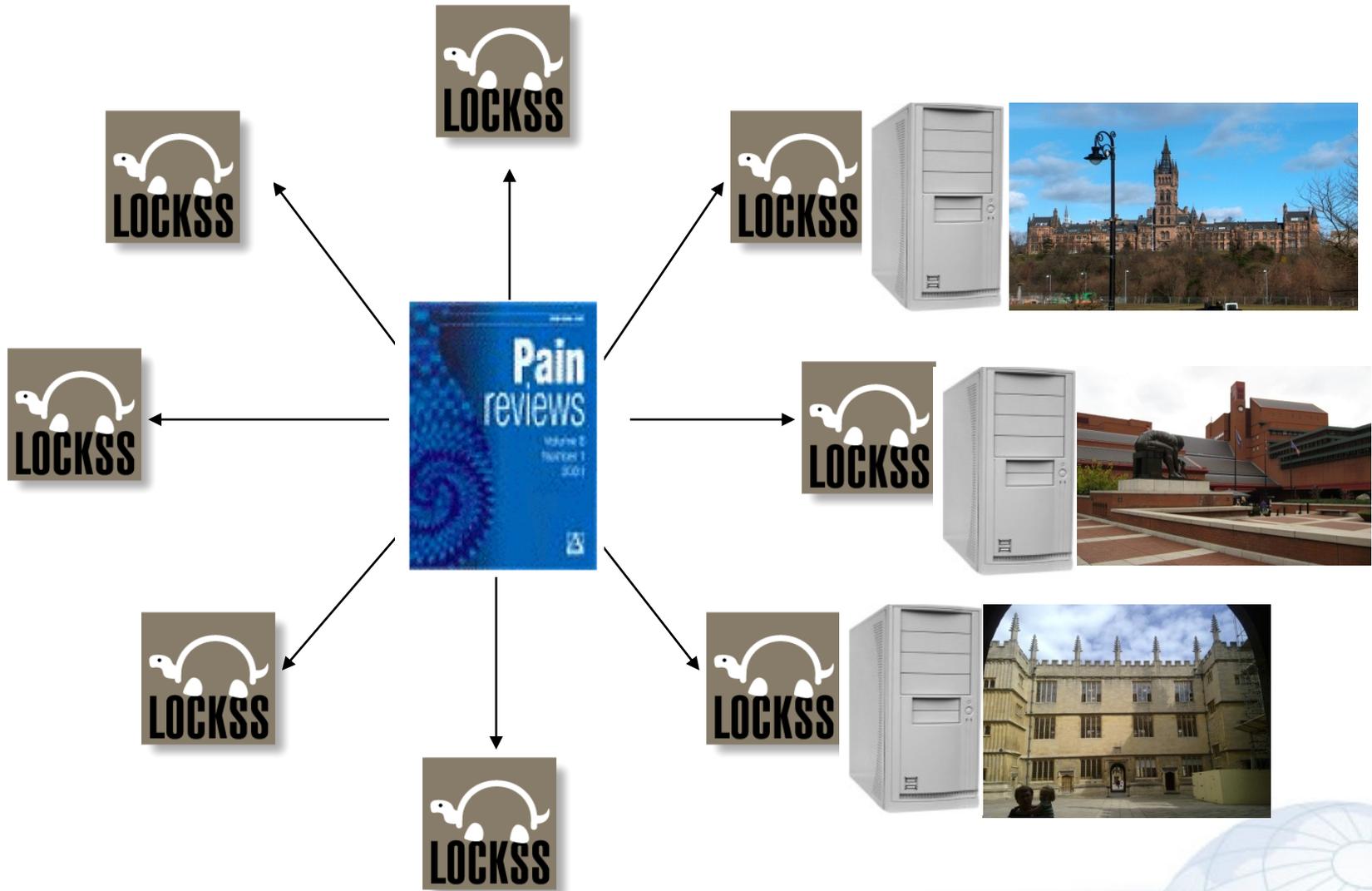
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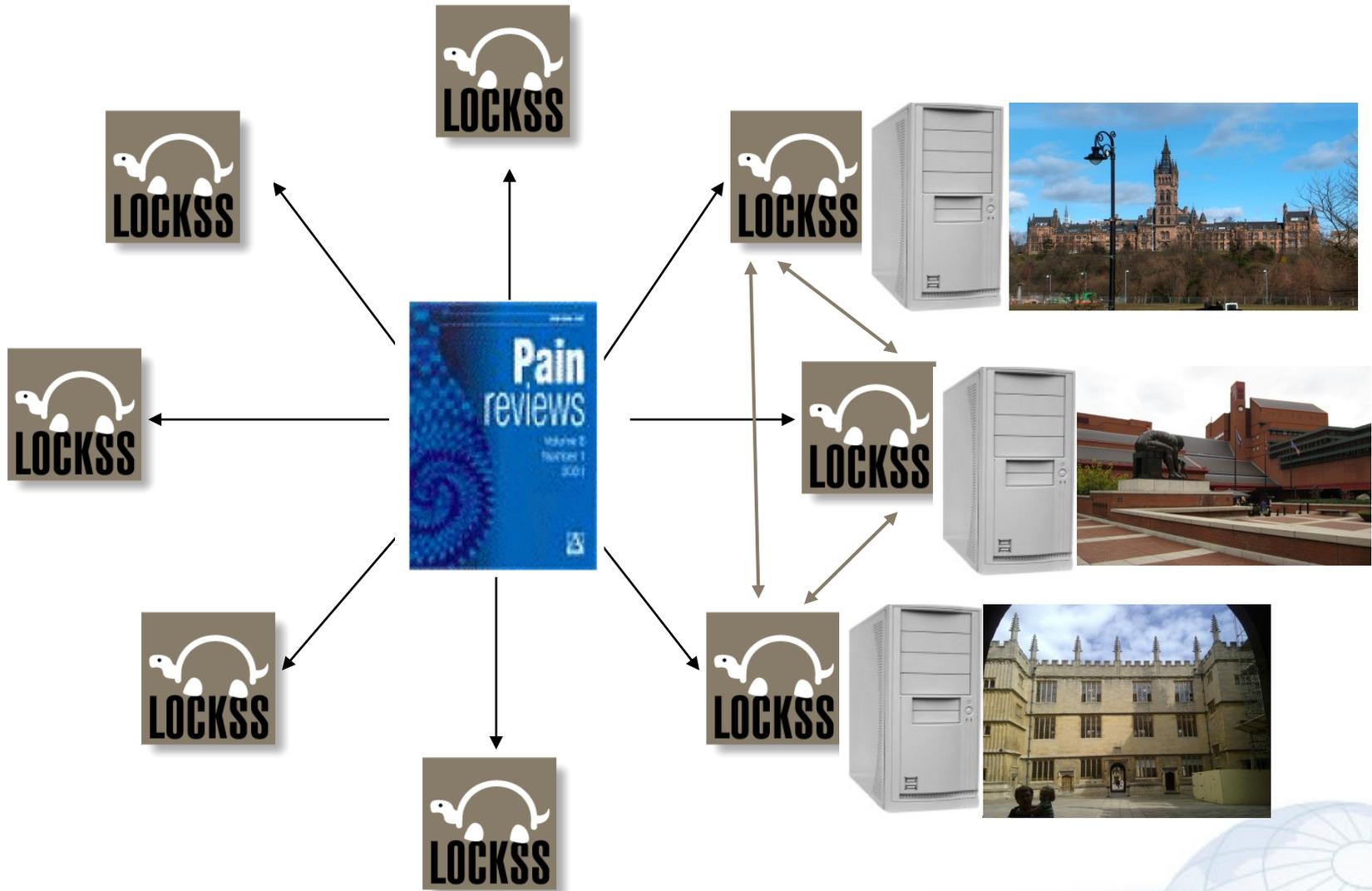
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# Independent Collection



# Independent Collection



# Governance Activities

- Finance, Activity and Resources
  - Achieving a sustainable organisation
- Collection Management Policies
  - Methods to determine what content is of priority and at-risk
- Community Outreach
  - Supporting other libraries
  - How to contribute to national policy
- Technical Operation and Development
  - Usage of LOCKSS within institutions

# Priorities for 2010-2013

- Funding for **Community Development Activities** (2010 – 2013)
- Continued identification of at-risk scholarly titles
- Develop well-defined policies and practices
  - And encourage their adoption
- Improve communication between the UKLA members
  - Engagement with the wider community, e.g. via DPC
- Develop active 'self-help' communities to share information
- Engage with other initiatives to encourage joined-up services
  - Benefit from 'Shared Services'

# Principles of LOCKSS: Building Solid Archives

- Assured and licensed access to content
- Appropriate control and custody of content
  - Within UK policy and funding control
- Responsibility spread across the community
  - Built upon a strong organisational foundation
- Shepherded by strong universities with strong libraries

Where do we go from here?

Thank you for listening

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