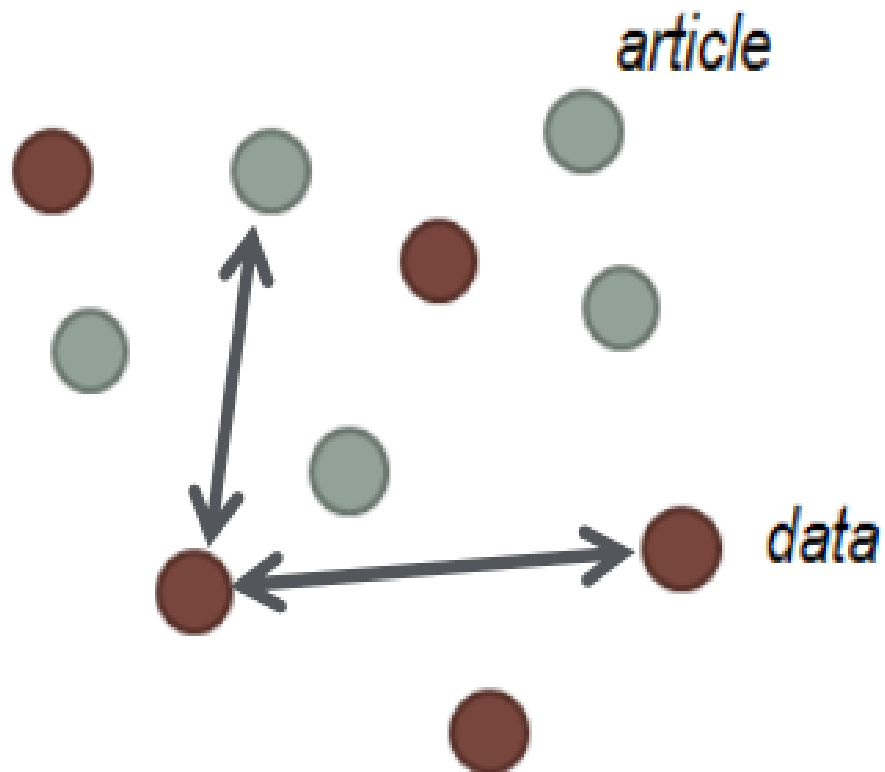


# Linking Data to Publications in Queen's Repositories



**Rosarie Coughlan**

Scholarly Publishing Librarian

Aust. J. exp. Biol. med. Sci. (1966), 44, pp. 287-300

## THE GROWTH OF MOUSE BONE MARROW CELLS *IN VITRO*

by T. R. BRADLEY<sup>1</sup> AND D. METCALF<sup>2</sup>

(From the Department of Physiology, University of Melbourne; and the Cancer Research Unit, Walter and Eliza Hall Institute, Parkville, N.2, Victoria).

(Accepted for publication 10th March, 1966.)

**Summary.** A simple *in vitro* technique is described for the growth of colonies from single cell suspensions of mouse bone marrow. The system involves the plating of marrow cells in agar on feeder layers of other cells, those from 8-day-old mouse kidney and 17th day mouse embryo being shown to be the most efficient types of feeder layers.

Approximately 400 colonies per  $1 \times 10^6$  nucleated marrow cells were grown, using kidney cell feeder layers. A linear relationship between the number of cells plated and the number of colonies developing was demonstrated.

In comparison with the marrow cells, lymph node or thymus cells did not form colonies, but a small number of colonies was formed using spleen cells.

Early in the development of the colonies the dominant cell type was a large mononuclear cell with cytoplasm filled with granules staining metachromatically with toluidine blue. With growth of the colony, cells with ring or horseshoe-shaped nuclei appeared, and a progression with further colony growth to smaller cells with segmented nuclei similar to polymorphonuclear blood cells was observed.

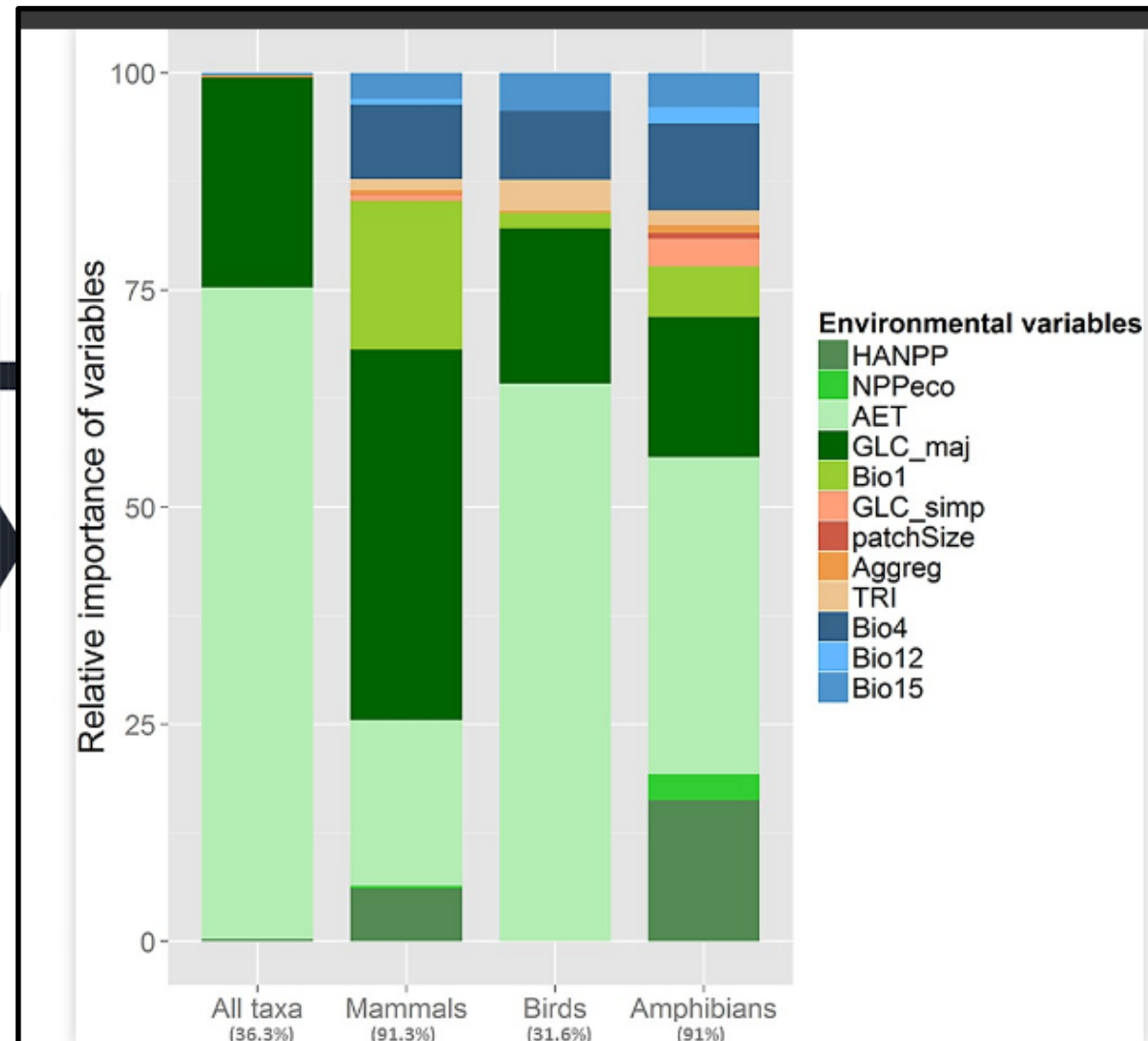
### INTRODUCTION.

A variety of techniques has been used in attempts to study the growth and differentiation of bone marrow cells *in vitro*. These have been reviewed recently by Woodliff (1964). However, as yet, simple techniques have not been described which allow quantitative work on bone marrow cell growth *in vitro* using large numbers of cells.

The method described here depends on the use of feeder layers and allows large numbers of colonies to be grown from bone marrow single cell suspensions, the isolation of individual colonies at various times of incubation and subsequent study of staining reactions and functional activity of the colony forming cells and their progeny.

<sup>1</sup> Supported by grants from the Anti-Cancer Council of Victoria and the Anna Fuller Fund, New Haven, Connecticut.

<sup>2</sup> Supported by the Carden Fellowship Fund of the Anti-Cancer Council of Victoria.



# The 5-HT<sub>7</sub> receptor influences stereotypic behavior in a model of obsessive-compulsive disorder

Peter B. Hedlund   , J. Gregor Sutcliffe

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doi:10.1016/j.neulet.2006.12.054

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## Abstract

The 5-HT<sub>7</sub> receptor has been suggested as a new putative target for the treatment of neuropsychiatric disorders, especially [depression](#). This hypothesis is based on the finding that [antidepressant drugs](#) have relatively high affinity for the 5-HT<sub>7</sub> receptor, and that inactivation or blockade of the receptor leads to an [antidepressant-like](#) profile in behavioral models and sleep parameters. [Obsessive-compulsive disorder](#) is also believed to involve the [serotonergic system](#) and is treated using [antidepressants](#), thus it is of interest to study the possible role of the 5-HT<sub>7</sub> receptor in this disorder. We have evaluated the effect of inactivation or pharmacological blockade of the 5-HT<sub>7</sub> receptor in three mouse behavioral models that are believed to mimic some of the stereotypic aspects of obsessive-compulsive disorder. In the most well-established behavioral model, marble burying, both inactivation and blockade of the 5-HT<sub>7</sub> receptor reduced stereotypic behavior in that the number of marbles buried decreased. In two newer, less well-characterized models, head dipping and plastic-mesh screen chewing, there was no difference between wild-type mice and mice lacking the 5-HT<sub>7</sub> receptor. Taken together the data confirms and expands on previous findings that the 5-HT<sub>7</sub> receptor is of importance for behaviors affected by antidepressants, and suggests that the 5-HT<sub>7</sub> receptor might be of relevance as a target for the treatment of obsessive-compulsive disorder.

## Effect of the selective 5-HT<sub>7</sub> receptor antagonist SB...

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## Brain structures in this article

Structure ▾	Occurrences ▲
hippocampus	1 

## Data for this Article



### Mouse Genome Informatics

Genes, expression, function, phenotypes for mice



### Rat Genome Database

Genomic information on rats

# Why Link Data to Publications?

- Increase visibility/usage of both articles & data
- Provide context for end-users
- Raises awareness of parallel service components - publications & data



## 1. For both creators & end-users:

- Integrate persistent links to the:
  - Underlying data for articles in QSpace
  - Publications derived from that data, shared and made public in data repositories.

## 2. For the Library:

- Integrate 'triggers' into submission workflows for both data and articles submitted to relevant repositories (to prompt reciprocal deposit).

# Data & Publications

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**Title:** Observations and Performances with Distinction by Physical Therapy Students in Clinical Education: Analysis of Check-boxes on the Physical Therapist Clinical Performance Instrument (PT-CPI) Over a 4 Year Period.

**Authors:** [Norman, Kathleen E](#)  
[Booth, Randy](#)

**Files in This Item:**

File	Description	Size	Format
<a href="#">Norman and Booth preprint PhysiotherCan2015.pdf</a>		370.76 kB	Adobe PDF



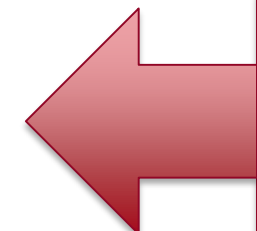
**Keywords:** clinical competence; professional education  
educational measurement  
physical therapy  
health occupations student

**Issue Date:** Jan-2015

**Publisher:** University of Toronto Press

**Citation:** Norman KE, Booth R. Observations and performances with distinction by physical therapy students in clinical education: analysis of check-boxes on the Physical Therapist Clinical Performance Instrument (PT-CPI) over a 4 year period. *Physiotherapy Canada* 2015; 67(1); 17-29

**Abstract:** Purpose: To describe how often the 24 performance criteria of the Physical Therapist Clinical Performance Instrument (PT-CPI) were not observed and how often they were rated exceptionally well for physical therapy (PT) students in relation to clinical placement descriptors.



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# REPLICATION DATA FOR: ON FISHBURN'S QUESTIONS ABOUT FINITE TWO-DIMENSIONAL ADDITIVE MEASUREMENT

[< View Previous Study Listing](#)

hdl:10864/11419

Version: 1 – Released: Mon May 02 18:42:38 EDT 2016

## CATALOGING INFORMATION

Data & Analysis

Comments (0)

Versions

**i** If you use these data, please add the following citation to your scholarly references. [Why cite?](#)

### Data Citation

Ng, Che Tat, "Replication data for: On Fishburn's questions about finite two-dimensional additive measurement", <http://hdl.handle.net/10864/11419> V1 [Version]

Citation Format

### Original Publication

**i** Results found in this publication can be replicated using these data.

Che Tat Ng. (2016). On Fishburn's questions about finite two-dimensional additive measurement. *Journal of Mathematical Psychology* (2016).

[Link](#)

## Data Citation Details

Title	Replication data for: On Fishburn's questions about finite two-dimensional additive measurement
Study Global ID	hdl:10864/11419
Authors	Ng, Che Tat (University of Waterloo)
Producer	Ng, Che Tat (C.T. Ng), University of Waterloo
Deposit Date	February 01, 2016
Original Dataverse	<a href="#">Chetat Ng Dataverse</a>

## Description and Scope

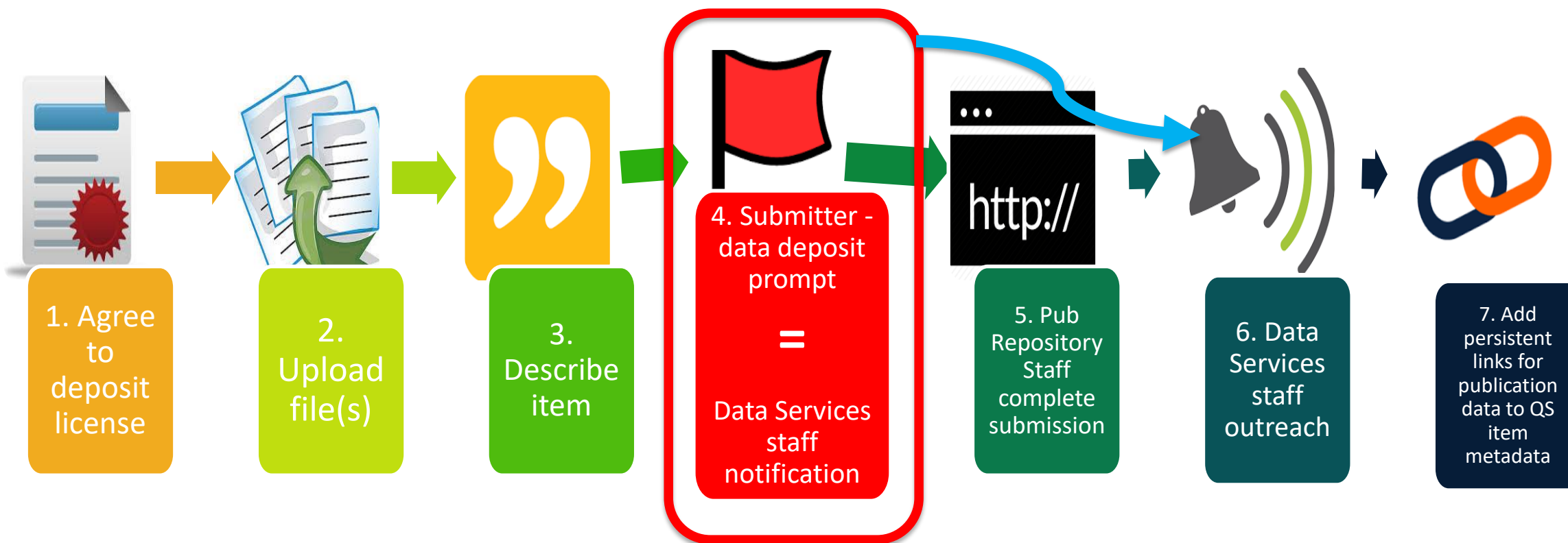
links

Metadata

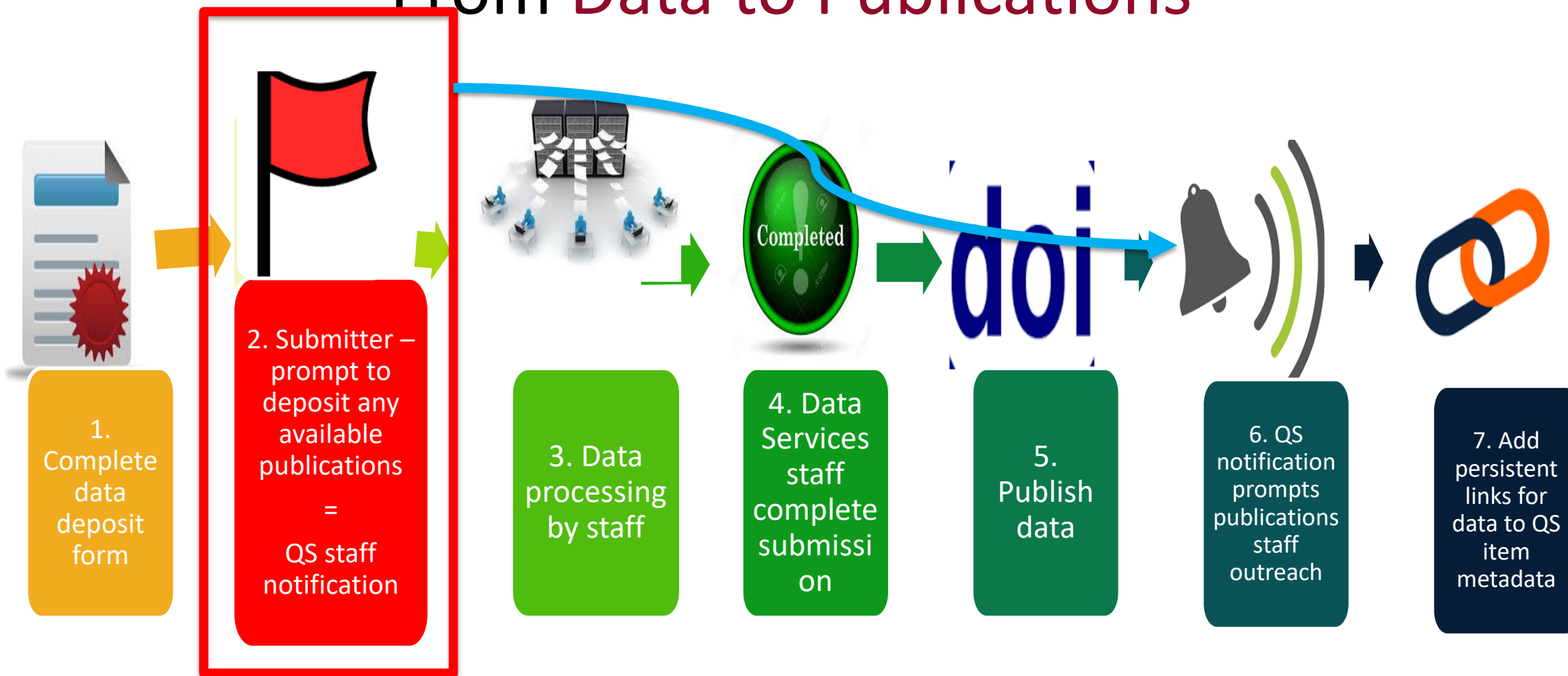
Add link to persistent QSpace item handle (OA version)



# # 2: Workflow Integration From Publications to Data



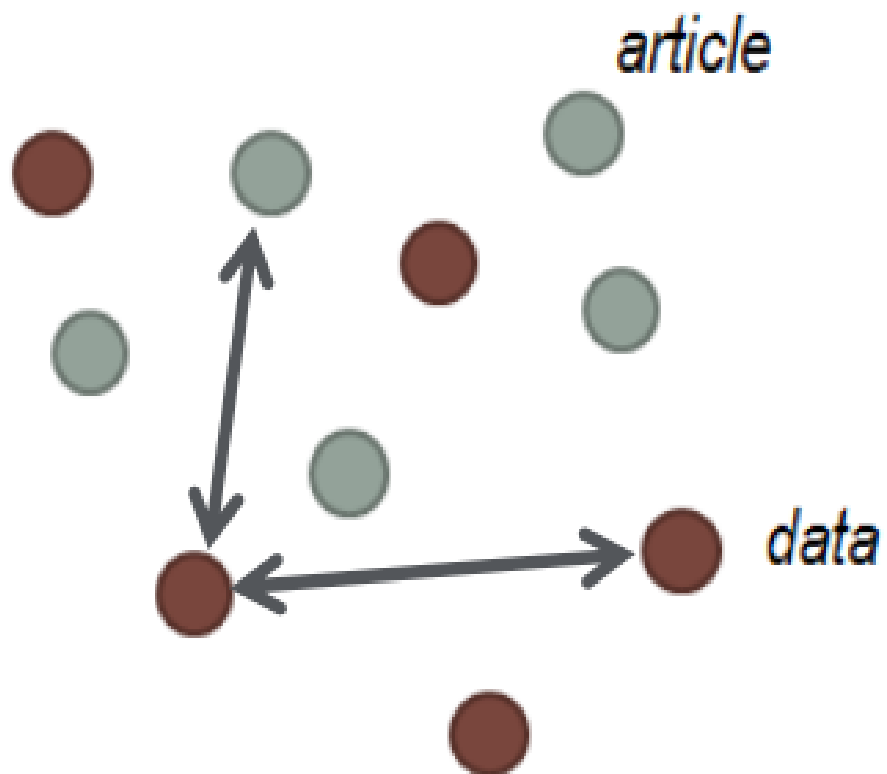
# # 2: Workflow Integration From Data to Publications





# Linking Data to Publications in Queen's Repositories

**Thank You.**



Rosarie Coughlan  
Scholarly Publishing Librarian