

Open sharing of research data has enabled global collaboration to decipher genome structure and function

Transparency and reproducibility are core scientific values

- Physical equipment, materials etc. are difficult to share
- Sharing of research data and code is technically easy

Public money, public results, public data?

Lack of transparency has led to problems in data-intensive science: Potti case, publication bias, 'reproducible research' movement

Standards now enforcing transparency

- data release often a prerequisite for publication

Traditional conventions, inefficient incentives and funding mechanisms, and technical challenges form **bottlenecks for sharing of research code and data**