Responsible Access to Neuroscience Data:
Critical Considerations

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Importance of Data Accessibility

- Reproducibility

- Improves Collaboration

- Funding/Publication requirements

- Sustainability of Neuroscience research

Nature of Neuroscience data

Multidisciplinary

Multiple Species

Multimodal

International

Multicultural

Key Challenges to Accessibility

Technical

Legal

Ethical

Politico-economic

Cultural/Psychological

Technical Challenges

STANDARDS

FORMATS

ANONYMISATION/DEIDENTIFICATION/
PSEUDONYMISATION

SECURITY

Legal Challenges

Privacy concerns *(Lawful basis for processing, Consent, risks of re-identifiability)*

Cross-country data transfer restrictions (e.g *Schrems II*)

Ethical Challenges

For What Purpose

Dual Use of Concern

Animal Data Governance

Politico-Economic Challenges

Political Sanctions list

Digital Divide

Financial Constraints

Cultural/Psychological Challenges

- Language Barriers
- Cultural Priorities
- Fear of Scrutiny
- Strong Sense of ownership

The role of Data Governance for Neuroscience Data

Criticality vs Risks

International Players needed

IBI Data Sharing and Standards WG

The Goal should be to have access to Neuroscience Data that is ...

Easy

Free

Sustainable

Equitable

Responsible