

# **Ethics in Research**

---

**Nishtha Tikalal**

# Agenda

---

**Objective:** Learn the importance and principles of ethics in research

- 01.** What is Ethics?
- 02.** Importance of Ethics to Scientific Research.
- 03.** Key Principles.
- 04.** Respect for Research Subjects.
- 05.** Responsible Publication and Authorship.
- 06.** Conflicts of Interest and Intellectual Property.
- 07.** Ethical Dilemmas.
- 08.** Summary.
- 09.** Q&A.

# What is Ethics?

---

- **Definition:** Norms that distinguish right from wrong conduct.
- Ethics is **broader** than law.
- Why ethics matter in research: **trust, integrity, social responsibility.**



# Importance of Ethics.

---

- **Protect** research participants' **rights and well-being**.
- Ensure **validity** and **trustworthiness** of research.
- **Promote** public confidence in science.
- **Avoid** harm and **misuse** of data.



# Key Principles.

---

- **Honesty:** truthful reporting of data.
- **Objectivity:** avoid bias.
- **Integrity:** consistency and reliability.
- **Carefulness:** avoiding errors.





# Respect for Research Subjects.

---

- **Informed consent.**
- Privacy **and** confidentiality.
- Vulnerable populations **protection.**
- **Fair** distribution of risks and benefits.



# Responsibilities.

---

- Proper **credit** for work.
- **Avoid** plagiarism and data fabrication.
- **Transparency** in conflicts of interest.
- **Avoid** honorary or **ghost** authorship.



# Conflict Resolution.

---

- **Identifying** and **disclosing** conflicts.
- **Respecting** patents and copyrights.
- Avoiding **misuse** of unpublished data.

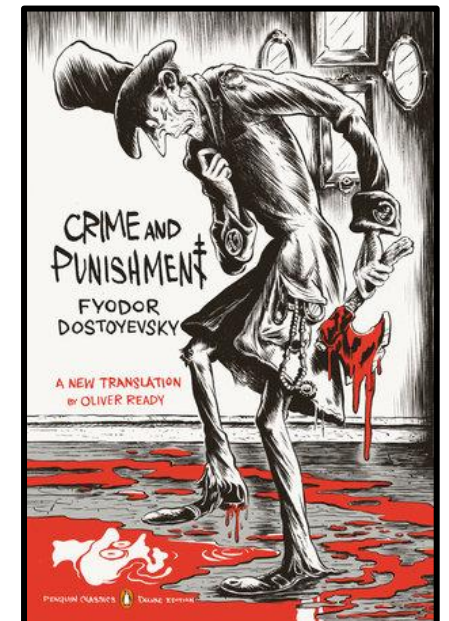
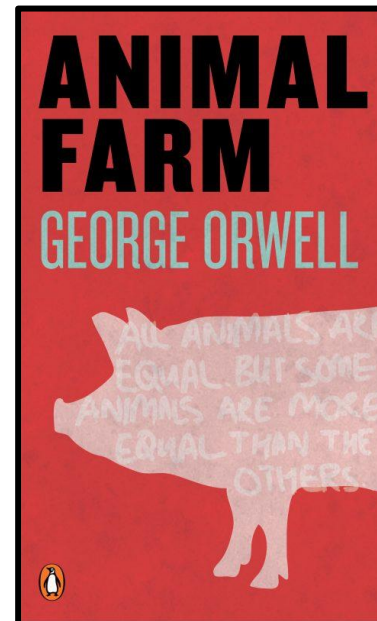




# Ethical Dilemmas.

---

- **Balancing** scientific freedom and societal impact.
- **Handling** sensitive data.
- Dealing with **pressure** to produce results.
- Ethical decision-making frameworks.



# Summary.

---

- Ethics safeguard research quality and public trust.
- Key principles: honesty, respect, fairness, responsibility.
- Ethical research benefits society and advances knowledge.
- Remember your responsibilities as a researcher.



# Q&A.

---

- Invite questions and interaction.
- Encourage sharing possible solutions to dilemmas.

