

- **In treatment of human infertility there is no shortage of donated sperm**
- **However, donated ova are in very short supply**
- **All the oocytes that a woman will produce in her life time are laid down in foetal development**
- **Aborted female foetuses could therefore be used as a source of ‘donated’ ova**
- **Do you approve/disapprove?**

*Why* should we teach ethics to  
bioscience students?

What are your reasons?



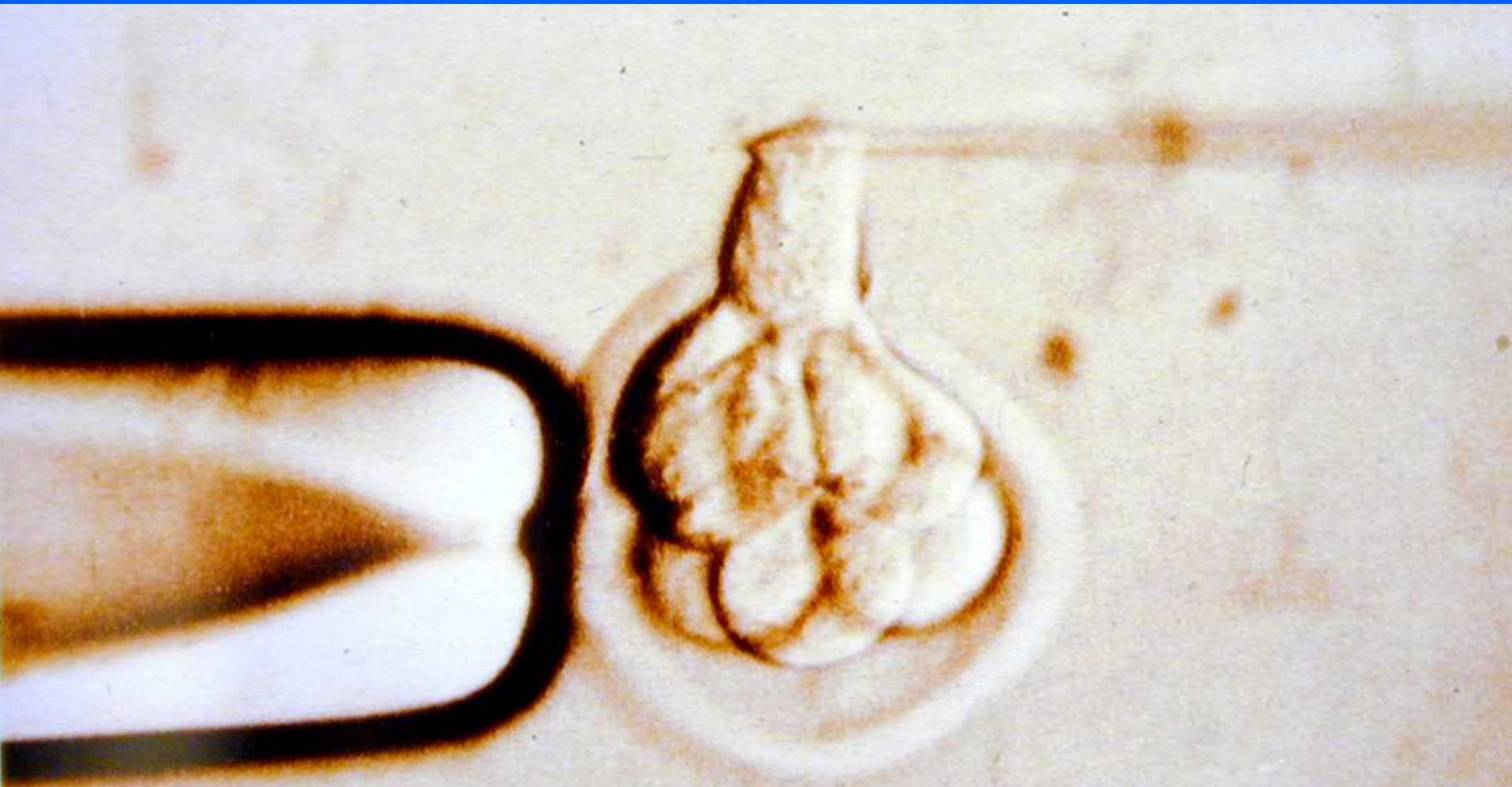
# Doing Biology

- Animal experimentation
- Genetic modification
- Environmental issues – disposal of isotopes
- Human data
- Allocation of resources

# Applying Biology

- Genetic modification
  - Crops and food
  - Safety, equity and justice
  - Animals
  - Human
  - Designer babies / donor babies

# TESTING AN 8-CELL EMBRYO



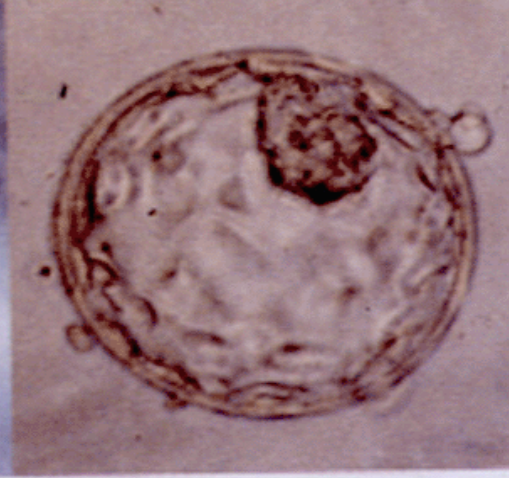
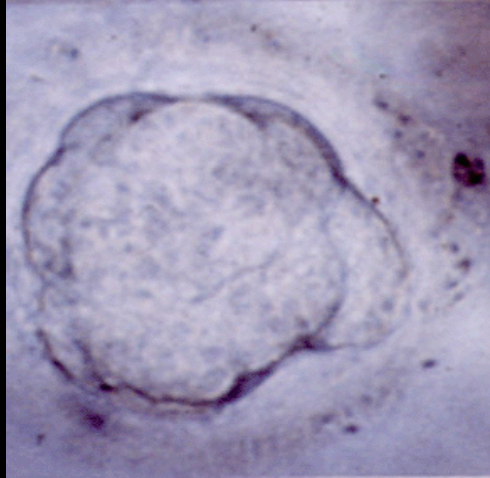
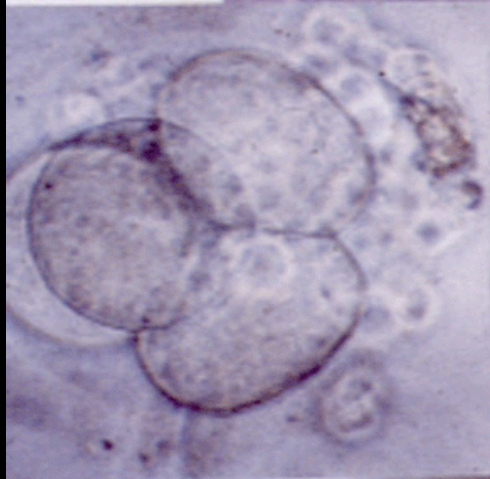
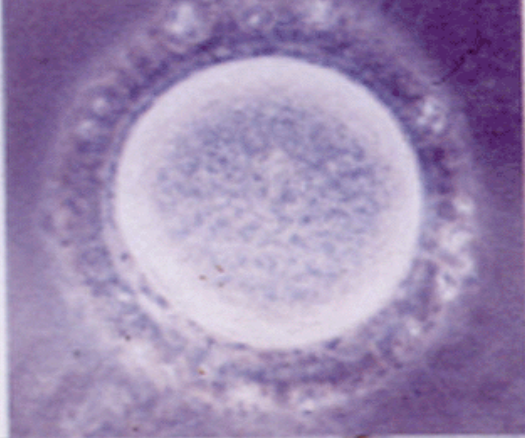
# Applying Biology

- Genome projects
  - Use of information
  - Possibility of discrimination
  - Confidentiality and autonomy
  - Philosophical applications: genetic reductionism or *GenesЯus*

# Applying Biology

- Reproductive technology
  - How far should we go?
- Cloning
- Stem cell research
- Status of the early embryo











# Environment

- Intrinsic versus instrumental value
- Whose ecosystem is it anyway?
  - Rio etc
- Who rules the world?

# The evolution of bioethics

## ■ Medical ethics

- Hippocrates, Codes of Practice, Post-Nuremberg (Jonsen)

## ■ Environmental

- Leopold, Carson, White, Potter

## ■ Bioethics

# Reasons for Bioethics

- Biomedical science is presenting us with ‘unprecedented choices’
- Do we have the ethical tools to deal with those choices?



# Making moral choices

- How do we make choices?
- Muddling through
- The ‘Yuk Factor’
- Deontological systems
- Consequentialist systems
- Virtue, Prudence and Wisdom