

**CONTROVERSIES AND ETHICS
OF ANIMAL TESTING:**

**EMERGING ISSUES
AND NEW CHALLENGES**

By

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ANIMAL TESTING

HIGHLY CONTROVERSIAL ISSUE

UNIQUE TO MODERN SCIENCE

FAVOUR

- **ACADEMICIANS**
- **RESEARCHERS**

- **CONTROVERSIES**

AGAINST

- **ANIMAL RIGHTS
ACTIVISTS**

- **ETHICS**

ACADEMICIANS & RESEARCHERS

- **SCIENTIFIC BREAKTHROUGHS**
- **ANTIBIOTICS, DRUGS, VACCINES**
- **MEDICAL PROCEDURES, TOXICOLOGY**
- **XENO TRANSPANTATION OF ORGANS**

SAVED HUMAN LIVES

ANIMAL RIGHTS ACTIVISTS

- **REPEATED PROTESTS**
- **DECISION MAKING ABILITY**
- **AVOID / MINIMIZE EXPERIMENTATION**
- **CONSEQUENTIALIST JUSTIFICATION**
(comparing the moral consequences of an experiment DOING or NOT DOING)

. CONTROVERSIES

. ETHICS

. EMERGING ISSUES

. NEW CHALLENGES

CONTROVERSIES

- **PAIN, SUFFERING, DISCOMFORT**
- **PAIN RELIEVER MAY INTERACT WITH DRUG**
- **IRRATIONAL ABUSE**
- **UNNECESSARY REPLICATIONS**
- **INDISCRIMINATE NUMBER**

ETHICS

- **MORAL STATUS - (HUMANS = ANIMALS)**
- **SPECIESISM** (like racism) (inflicting pain on human/animal is equally wrong)
- **ETHICAL SELF-EXAMINATION**
(self-analysis of one's own personal and scientific motives)
- **ETHICAL REVIEWS & AUDIT**

EMERGING ISSUES

- METABOLIC TESTS
- TOXICITY TESTS
- EFFICACY TESTS
- CARCINOGENIC TESTS
- LD 50 TOXICITY TEST BANNED

EMERGING ISSUES

- **PREVENTION OF CRUELTY TO ANIMALS ACT, 1960**
- **WILDLIFE PROTECTION ACT, 1972**
- **UGC GUIDELINES 2011 DISCONTINUATION OF DISSECTION AND EXPERIMENTS ON LIVE ANIMALS IN A PHASED MANNER**
- **MOEF GUIDELINES 2012**
- **NGO'S - PFA, PETA, SPCA etc**

NEW CHALLENGES

- **ALTERNATE MODES FOR DISSECTION AND EXPERIMENTATION**
- **DIGITAL / PLASTINATED SPECIMENS**
- **DEVELOPMENT OF ALTERNATIVES TO USE OF ANIMALS IN PG EDUCATION**

4 R's

RUSSELL & BURCH - 1959

- **REDUCTION**
- **REFINEMENT**
- **REPLACEMENT**
- **REHABILITATION**



ALTERNATIVES

- **CDs, COMPUTER SIMULATIONS,
MANNEKIN / MODEL, INVITRO METHODS**
- **AUTOPSY, EPIDEMIOLOGICAL STUDIES,
TISSUE CULTURES, IN SILICO TESTS**
- **COMPUTERS ARE UNABLE TO MODEL
ALL INTERACTIONS MAKING ANIMAL
RESEARCH NECESSARY IN MANY AREAS**

REMEDIES

- **ONLY MEDICINAL PURPOSES**
- **NO COSMETICS TESTING**
- **JUSTIFIED CIRCUMSTANCES**
- **UNNECESSARY SACRIFICE**
- **BEST EXPERIMENTAL DESIGNS**
- **EUTHANASIA**

COSMETICS

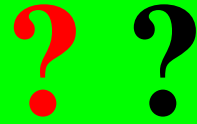
- **TESTING BANNED IN EUROPE**
- **LEAPING BUNNY LOGO**

OTHER AREAS

- **LEATHER Vs JUTE BAGS**
- **NON VEG / VEG / VEAGEN**



- **FOCUSSED CRITICAL THINKING**
- **IS AND WILL BE AN ONGOING PROCESS**
- **CHANGING ATTITUDES OF PEOPLE**
- **MORAL STRESS - EUTHANASIA**
- **CLEAR ALL ETHICAL DILEMMAS**
- **BROADER PERSPECTIVE**
- **HOLISTIC APPROACH**



- SCIENTIFIC BASIS
- ENFORCEMENT OF LAWS, REGULATIONS
- STRICT ANIMAL ETHICS COMMITTEES
- NON SCIENTIFIC SOCIAL MEMBER
- TRANSPARENCY

CONCLUSION

- **NECESSARY EVIL**
- **INDISPENSIBLE
& INEVITABLE**
- **HELPFUL FOR FURTHERING
MEDICAL SCIENCE**

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- INITIALLY ON HUMANS
- HUMAN RIGHTS ACTIVISTS
- ANIMALS
- ANIMAL RIGHTS ACTIVISTS
- HUMANS AGAIN (*WITH CONSENT*)

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