91 Introduction

A.animal agriculture

1.animals

2.not just for meat

B.Selective breeding

1.aim

2.plateau

3.speed

92 Genetic manipulation and transgenic animals

A.Pro-nuclear infection

1.goal

2.process

3.limitation

4.limited successes

5.mastitis

6.n-3 fatty acid production story

7.production of human proteins/pharmaceuticals in transgenic lactating animals

B.Somatic cell nuclear transfer (SCNT)

1.first done

2.process

3.Dolly

4.efficiency

5.life span

93 Genetically engineered hormones and vaccines

A.Bovine

1.recombinant production

2.use

3.approval

4.problems

B.Pig

1.use

2.problems

C.Animal vaccines

94 Animal organs for human patients

A.organism

B.reason for rejection / enzyme deleted

95 Genetically modified insects

A.Why

B.Disease research focuses

C.Economics research focuses

D.Sterile insect technique (SIT)

96 A look to the future

97 Diagnostics in plant and animal agriculture
A.past
B.Now
C.Assays
1.Immunoassays
2.NA probes
3.how help
4.examples