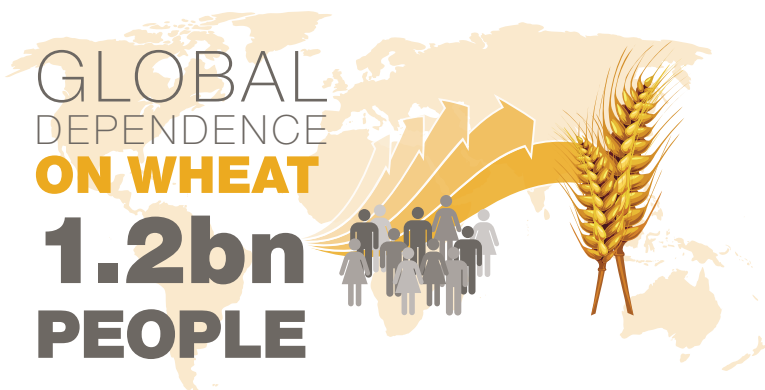


Economic & social contribution to society

# JIC TODAY

GLOBAL  
DEPENDENCE  
**ON WHEAT**  
**1.2bn**  
**PEOPLE**



**JIC** RESEARCH INTO  
WHEAT GENETICS LEADS  
TO **INCREASED YIELD**  
AND **INCREASED**  
**DISEASE RESISTANCE**

## JIC WHEAT RESEARCH ANNUAL CONTRIBUTION

**UK  
ECONOMY**



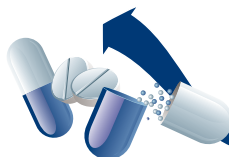
**£400m**

**GLOBAL  
ECONOMY**



**£8.7bn**

**ANTIBIOTICS  
SAVE MILLIONS  
OF LIVES**



**JIC IS A  
WORLD  
LEADING  
STREPTOMYCES  
RESEARCH  
INSTITUTE**

**1/2**  
OF ALL OF THE  
**WORLD'S  
ANTI  
BIOTICS**  
DEVELOPED FROM  
**STREPTOMYCES  
SOIL MICROBES**

**JIC ANTIBIOTIC RESEARCH  
ANNUAL CONTRIBUTION**

**GLOBAL  
ECONOMY**



**£247m**

Economic & social contribution to society

## JIC IN 2023

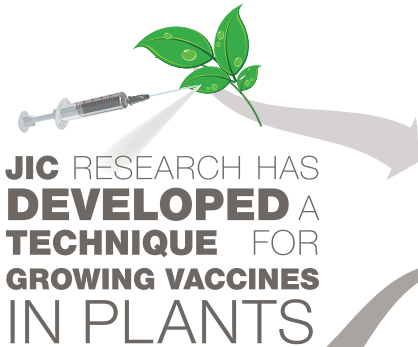


**OIL SEED RAPE**  
IS THE THIRD LARGEST  
UK ARABLE CROP

**COULD  
SAVE**  
UK FARMERS  
**£115m**  
IN DROPPED SEED  
EACH HARVEST

JIC OIL SEED  
RAPE RESEARCH  
INTO **POD SEED  
SHATTER**

SEED PODS  
OPENING  
BEFORE  
HARVEST  
LEADS TO  
**15% LOSS  
IN YIELD**



JIC RESEARCH HAS  
**DEVELOPED A  
TECHNIQUE** FOR  
GROWING VACCINES  
IN PLANTS

THIS **CUTS  
THE TIME**  
TO PRODUCE  
**10,000,000  
DOSES OF  
FLU  
VACCINE**

FROM  **9  
MONTHS** TO  **30  
DAYS**



TECHNIQUE IS IN  
PERMANENT READINESS  
FOR PANDEMIC FLU  
IN USA POTENTIALLY  
**SAVING  
LIVES**

**JIC BIOTECHNOLOGY  
ANNUAL CONTRIBUTION**

**GLOBAL  
ECONOMY**



# Unlocking Nature's Diversity

Economic & social contribution to society

## JIC IN 2043

**MAIZE IN  
SUB SAHARAN  
AFRICA  
LIMITED TO  
20-40%  
OF POTENTIAL  
YIELD DUE TO  
LACK OF  
NITROGEN  
FERTILISER**



**JIC RESEARCH  
DEVELOPING  
NITROGEN  
FIXING IN MAIZE  
TO CREATE ITS  
OWN FERTILISER**

**INCREASED  
PRODUCTION  
WILL MEET  
THE STARCH  
NEEDS OF**

**436m  
PEOPLE**



**THAT'S 6x POPULATION OF GB**



**JIC NITROGEN RESEARCH  
ANNUAL CONTRIBUTION**

**GLOBAL  
ECONOMY**



**⇒••⇐**  
**IN THE EU  
25,000  
DIED  
IN 2012  
DUE TO ANTIBIOTIC  
RESISTANCE**



**JIC DEVELOPED  
DNA  
BASED TECHNOLOGY  
COULD  
ADDRESS  
ANTI  
BIOTIC  
RESISTANCE**

**REPLACING  
EXISTING  
ANTI  
BIOTICS**

**CONTRIBUTING  
£1.26bn  
TO THE EU  
ECONOMY  
EACH YEAR**