## **Solving Antibacterial Resistance**

### David Cole-Hamilton President EuCheMS

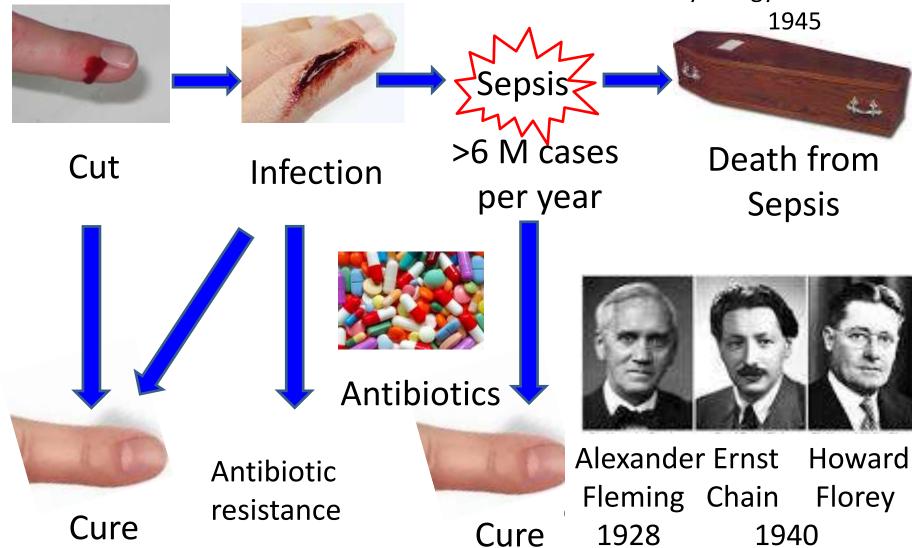
Thanks to: STOA Paul Rubig MEP Nineta Majcen Bruno Vilela



# **Blood poisoning (Sepsis)**



Physiology and Medicine





## **Causes of antibiotic resistance**

- Natural evolution
- Over-prescription
- Doctors pre- on Unfin: islation on Needs legislation inore Needs advertising or advert
  - Disease prevention (ba



EuCheMS

**European Chemical Sciences** 

# What can Europe do?

- Enforce legislation on agricultural processes and imports
- Major publicity campaign (over prescription, completing doses)

#### Research

- Better understand mechanism of resistance
- Understand spread of resistance between species
- Better, earlier diagnosis => appropriate treatment
- New treatments
- New antibiotics



## **Proposed European response to AMR**

-\$50M

#### **Return on investment**

New antibiotic



Musculoskeletal drug ~\$1 bn

#### **EU Funding**

- Network of Centres throughout Europe (Alderey Park, UK)
  Structural funds?
- Individual groups with good new ideas
  Horizon 2020

All working together and sharing results **EucheMS** European Chemical Sciences