

Humboldt- Universität zu Berlin

Faculty of Agriculture and Horticulture

and it's Section Phytomedicine

Humboldt-Universität zu Berlin



Faculty of Medicine
7.800 students

Faculty of Mathematics
and Natural Sciences I-II
6.100 students

Faculty of Theology
500 students

Faculty of Law
3.100 students

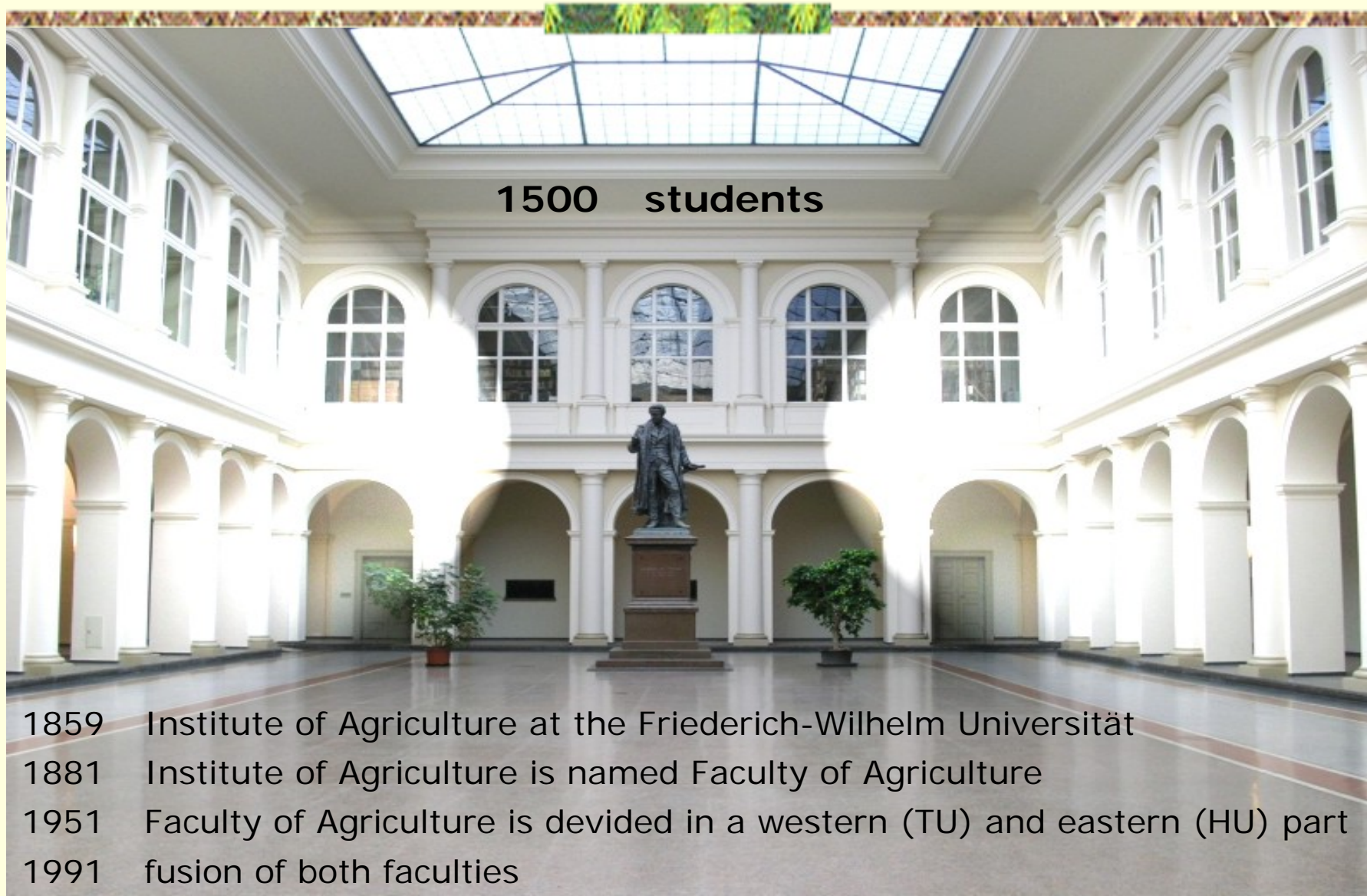
Faculty of Economics and
Business Administration
2.000 students

Faculty of Agriculture
and Horticulture
1.500 students

Faculty of Arts (I-IV)
17.500 students



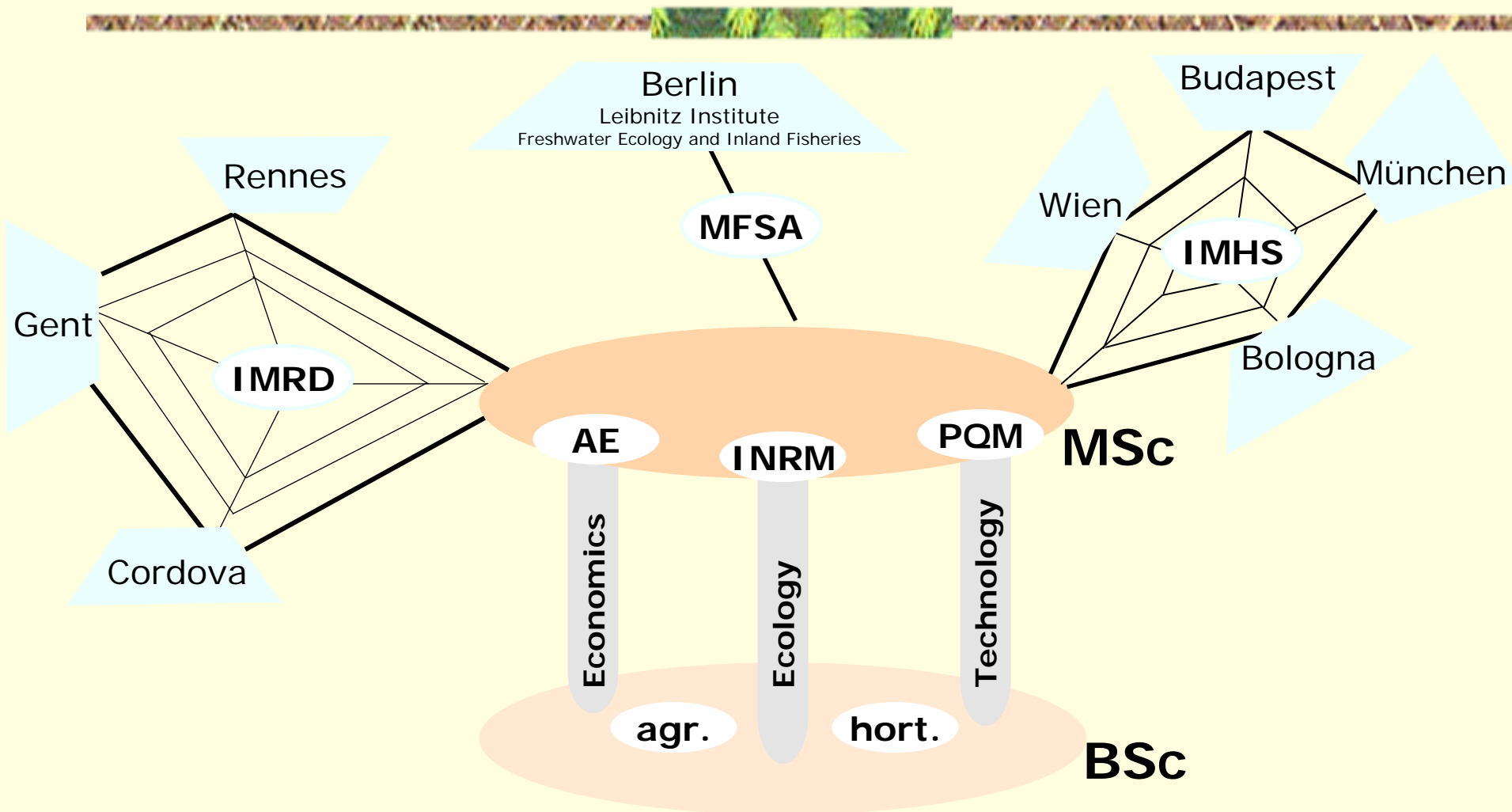
Faculty of Agriculture and Horticulture



1500 students

- 1859 Institute of Agriculture at the Friederich-Wilhelm Universität
- 1881 Institute of Agriculture is named Faculty of Agriculture
- 1951 Faculty of Agriculture is divided in a western (TU) and eastern (HU) part
- 1991 fusion of both faculties

International network – study programm



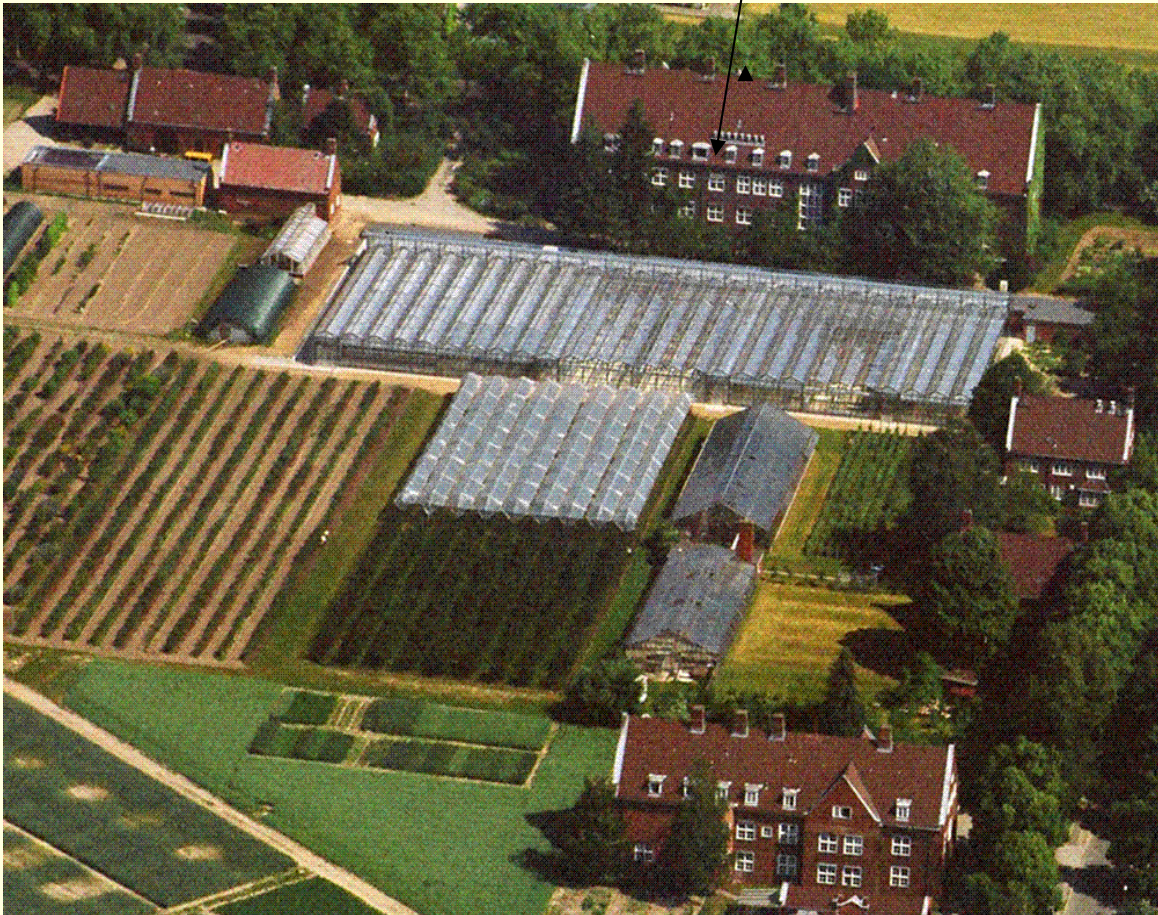
IMRD: International Master Rural Development
MFSA: Master Fishery Sciences and Aquaculture
IMHS: International Master Horticultural Sciences

AE: Master Agricultural Economics
INRM: Master Integrated Natural Resource Management
PQM: Process and Quality Management

Campus Dahlem



Section phytomedicine



Sections/ working groups

Plant Breeding

Phytomedicine

Horticultural Engineering

Urban Horticulture

Vegetable Production

Ornamental Plants

Pomology

Tree Nursery

Quality Management

Tissue Culture

Section Phytomedicine



Section Phytomedicine

- main research -



■ **Virology**

Characterization of virus in deciduous trees; studies on epidemiology
Spread and transmission of plant viruses by soil and water
economically important viruses of vegetables and ornamentals

■ **Mycology**

Identification and characterization of *Fusarium* sp.
Detection and evaluation of mycotoxines

■ **Applied Entomology**

Cameraria ohridella - Biology and biological control
Application of *Lecanicillium muscarium* in biological plant protection

■ **Phytosanitary measures**

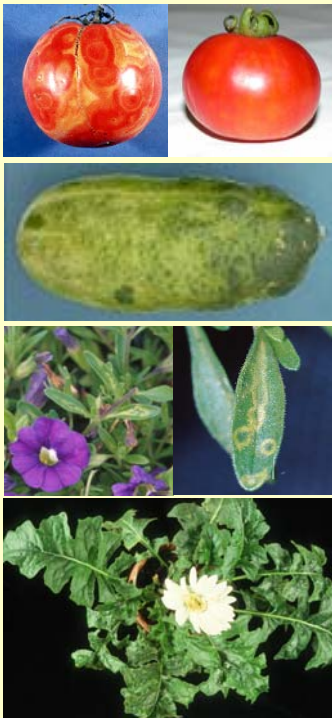
composting, pasteurization in regard to quarantine organismen
decontamination of tables, knives, tools and seeds by disinfectants

■ **Remediation of soil contaminated with explosives**

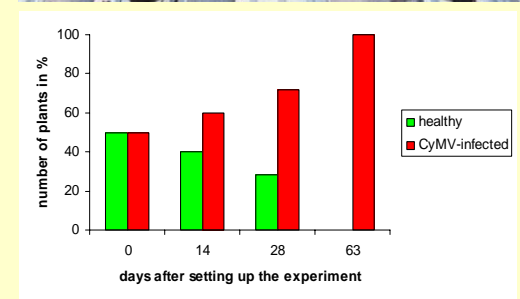
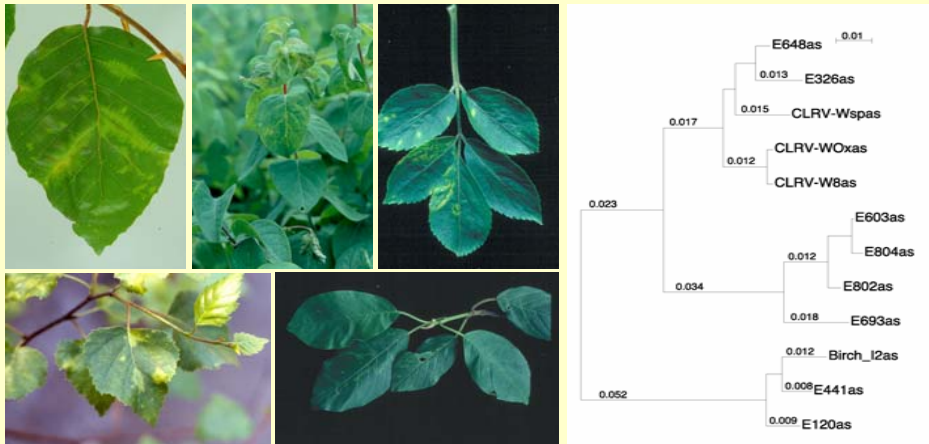
„Uptake and distribution of ^{14}C -TNT in coniferous plants“

Virology

- diagnosis, characterization and epidemiology -



characterization and epidemiology of
cherry leaf roll virus (CLRV)

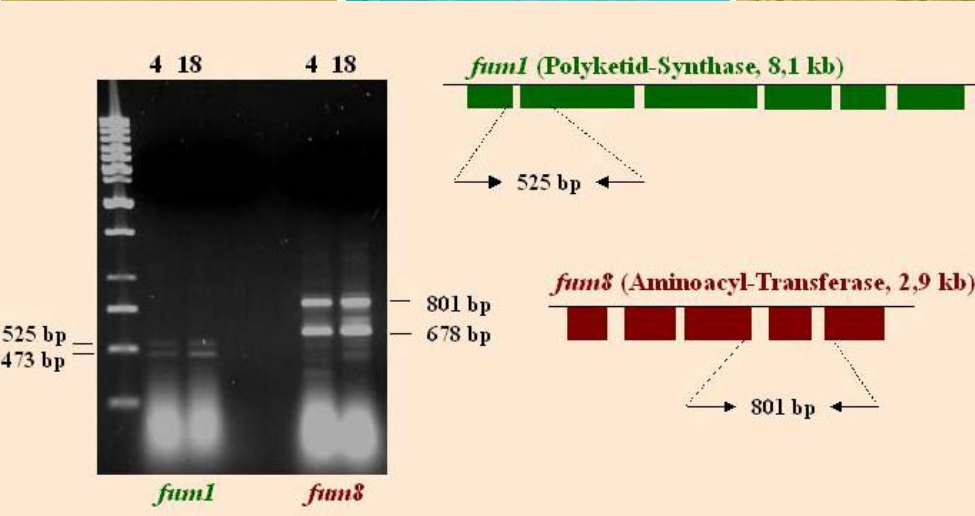


diagnosis

spread and
transmission
by soil and water

Mycology

- *Fusarium* sp. -



location species	1 n=153	2 n=189	3 n=184	4 n=150	5 n=114
<i>F. oxysporum</i>	20	21	82	80	67
<i>F. proliferatum</i>	7	7	37	20	5
<i>F. culmorum</i> / <i>F. sambucinum</i>	0	6	0	11	9
<i>F. avenaceum</i>	7	0	0	0	0

**Identification, characterization of *Fusarium* sp.
and evaluation of mycotoxines**

Applied Entomology

- biological plant protection -



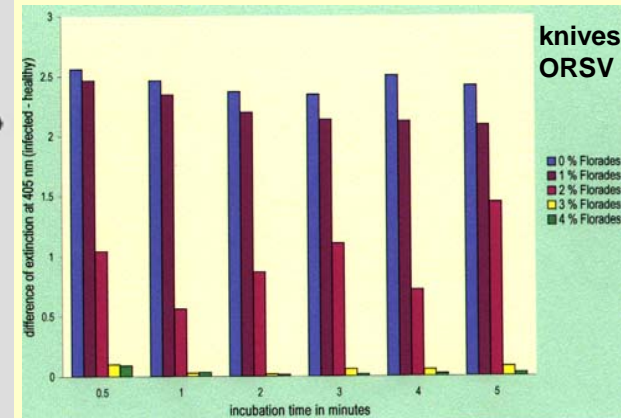
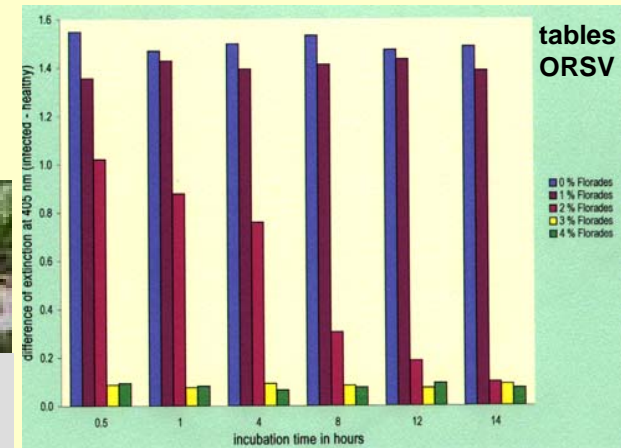
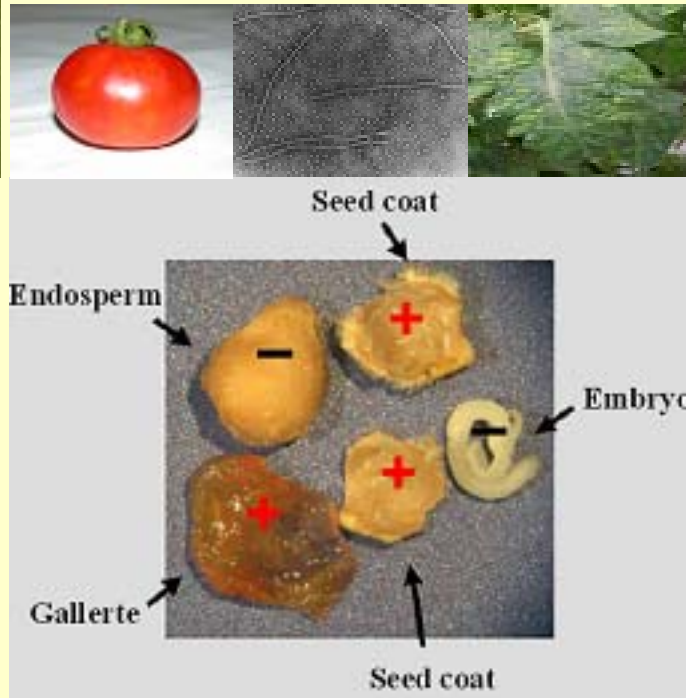
natural regulation mechanism on infestation development
efficiency of entomopathogenic fungi (esp. *Lecanicillium muscarium*)
occurrence and suitability of parasitoids

Phytosanitary measures

- composting, pasteurization and disinfection -



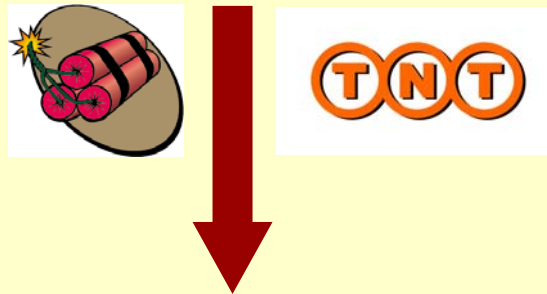
composting



disinfection

pest risk assessment

Remediation of soils contaminated with explosives



**„Uptake and distribution of ^{14}C -TNT
in coniferous plants“**

Bernd Schönmath
Humboldt-Universität zu Berlin, Section Phytomedicine

I wish
a pleasant and
informative
meeting