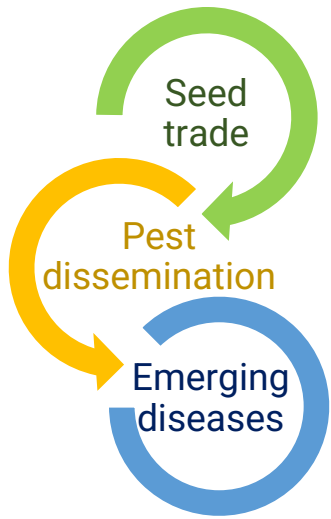




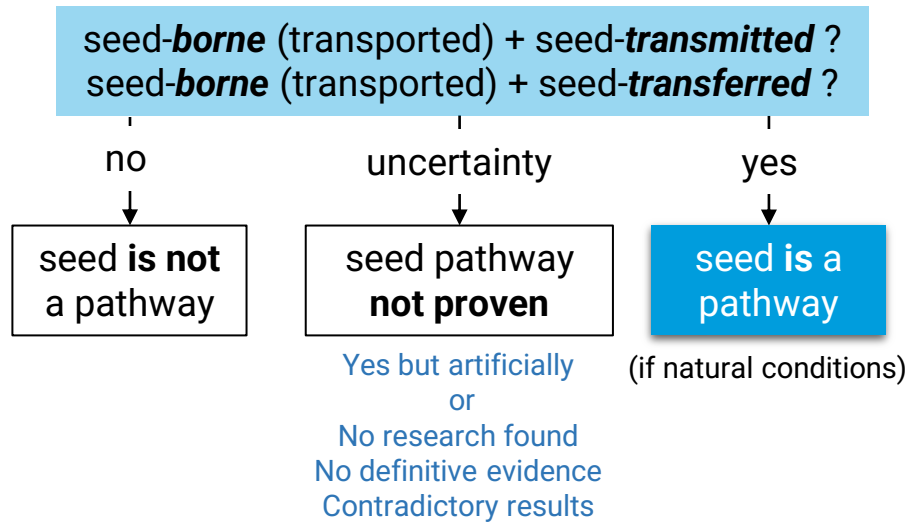
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Seed pests threaten food security



e.g.:
ToBRFV
Magnaporthe oryzae MoT

Methodology:
a science-based decisional scheme



Future challenges:
R&D, Pest Risk Analyses, Risk management

Diagnostics, detection or treatment methods; breeding
Investigation of seed transmission
Valuable resource for NPPOs and policymakers

23 hosts ■ 333 seed-borne pests ■ 145 “seed pathway” ■ 558 scientific references

fungi oomycetes myxomycetes	bacteria nematodes viruses viroids
BARLEY 18 PESTS 13 SEED PATHWAY PHOTO: GEVES	ARAUCARIA 12 PESTS 1 SEED PATHWAY PHOTO: WILKINSON/ISTOCK
RICE 37 PESTS 10 SEED PATHWAY PHOTO: GEVES	SPRUCE 14 PESTS 2 SEED PATHWAY PHOTO: WILKINSON/ISTOCK
SOYBEAN 50 PESTS 28 SEED PATHWAY PHOTO: GEVES	PINE 14 PESTS 2 SEED PATHWAY PHOTO: WILKINSON/ISTOCK
WHEAT 25 PESTS 16 SEED PATHWAY PHOTO: GEVES	PEAR 4 PESTS 0 SEED PATHWAY PHOTO: GEVES
RAPSEED 12 PESTS 6 SEED PATHWAY PHOTO: GEVES	ALMOND 7 PESTS 1 SEED PATHWAY PHOTO: WIKI
OAT 34 PESTS 12 SEED PATHWAY PHOTO: GEVES	APPLE 9 PESTS 3 SEED PATHWAY PHOTO: GEVES
TRITICALE 15 PESTS 4 SEED PATHWAY PHOTO: GEVES	APRICOT 3 PESTS 1 SEED PATHWAY PHOTO: GEVES
SUNFLOWER 19 PESTS 12 SEED PATHWAY PHOTO: GEVES	CHERRY 8 PESTS 3 SEED PATHWAY PHOTO: GEVES
SORGHUM 38 PESTS 11 SEED PATHWAY PHOTO: GEVES	PEACH 4 PESTS 2 SEED PATHWAY PHOTO: GEVES
COTTON 21 PESTS 6 SEED PATHWAY PHOTO: GEVES	PEAR 4 PESTS 0 SEED PATHWAY PHOTO: GEVES
DOUGLAS FIR 11 PESTS 3 SEED PATHWAY PHOTO: WILKINSON/ISTOCK	PLUM 4 PESTS 0 SEED PATHWAY PHOTO: GEVES
FIR 8 PESTS 1 SEED PATHWAY PHOTO: WILKINSON/ISTOCK	

More to come, stay tuned: chickpea, lentil, lupin, potato



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