


The mould symphony

Composed by Dilek Heperkan

Aflatoxin producing fungi in the literature

- 
- *A.flavus*
 - *A.parasiticus*
 - *A.nomius*
 - *A.oryzae*
 - *A.sojae*
 - *A.tamarii*
 - *Petromyces alliaceus*
 - *P.albertensis*
 - *A.lanosus*
 - *Emerciella venezuelense*
 - *E.acristata*
 - *A. bombycis*
 - *A. pseudotamarii*

produce aflatoxins

whereas the other three species in the section Flavi do not produce aflatoxins.

CPA producing moulds in the literature



P. cyclopium → *P. griseofulvum* → *P. verrucosum*
subgenus *cyclopium*

- *P. camembertii*
- *P. commune*
- *P. griseofulvum*
- *P. palitans*
- *A. flavus*
- *A. versicolor*
- *A. oryzae*
- *A. tamaritii*

A. flavus → CPA & Aflatoxin
co-occurrence

Aflatoxin and CPA producing molds in Turkish figs

Aspergillus section Flavi

- A.flavus



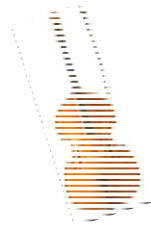
- A.parasiticus



- A.tamarii



- P.commune



Do not produce aflatoxin

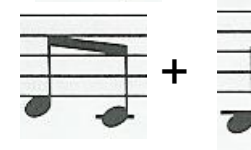
Aflatoxin B₁



Aflatoxin B₁ B₂



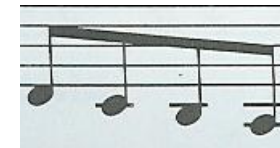
Aflatoxin B₁B₂G₁



CPA



Aflatoxin B₁ B₂G₁G₂



CPA



CPA



OTA producing molds in the literature



Aspergillus section *Nigri*

- ***A. niger* var. *niger***

***A.niger* agg.**

A.foetidus

A.awamori

- ***A.carbonarius***
- **(*A.japonicus*)**

- **Other Aspergilli**
- ***A.ochraceus***
- ***A.terreus***

- ***Penicillium***
verrucosum
- ***P.chrysogenum* ?**
- ***P.commune* ?**

Aspergillus section *Nigri* and other OTA producing molds in Turkish figs

***Aspergillus niger* agg.**



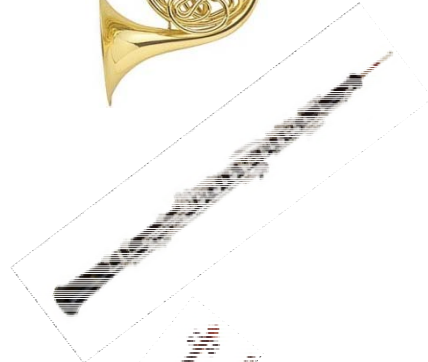
A.foetidus



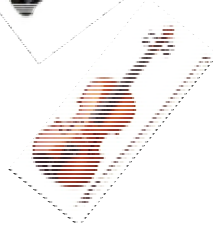
A.awamori



A.carbonarius



A.terreus



Citrinin
patulin?

OTA

OTA

OTA

OTA



Other mycotoxin producing molds in Turkish figs

- *P.chrysogenum*



- *P.citrinum* 📢



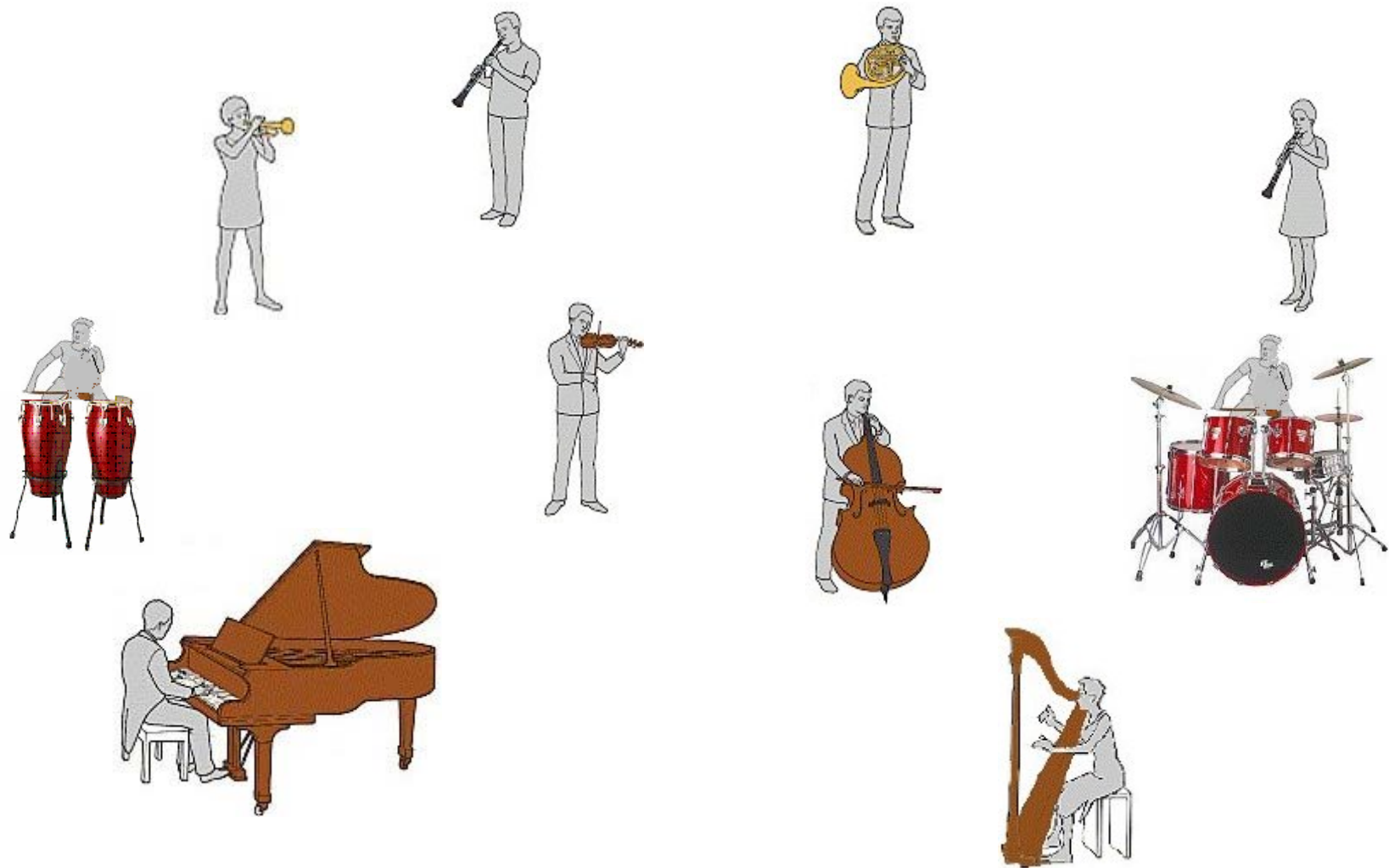
- Citrinin

- *Fusarium verticilloides/ proliferatum*

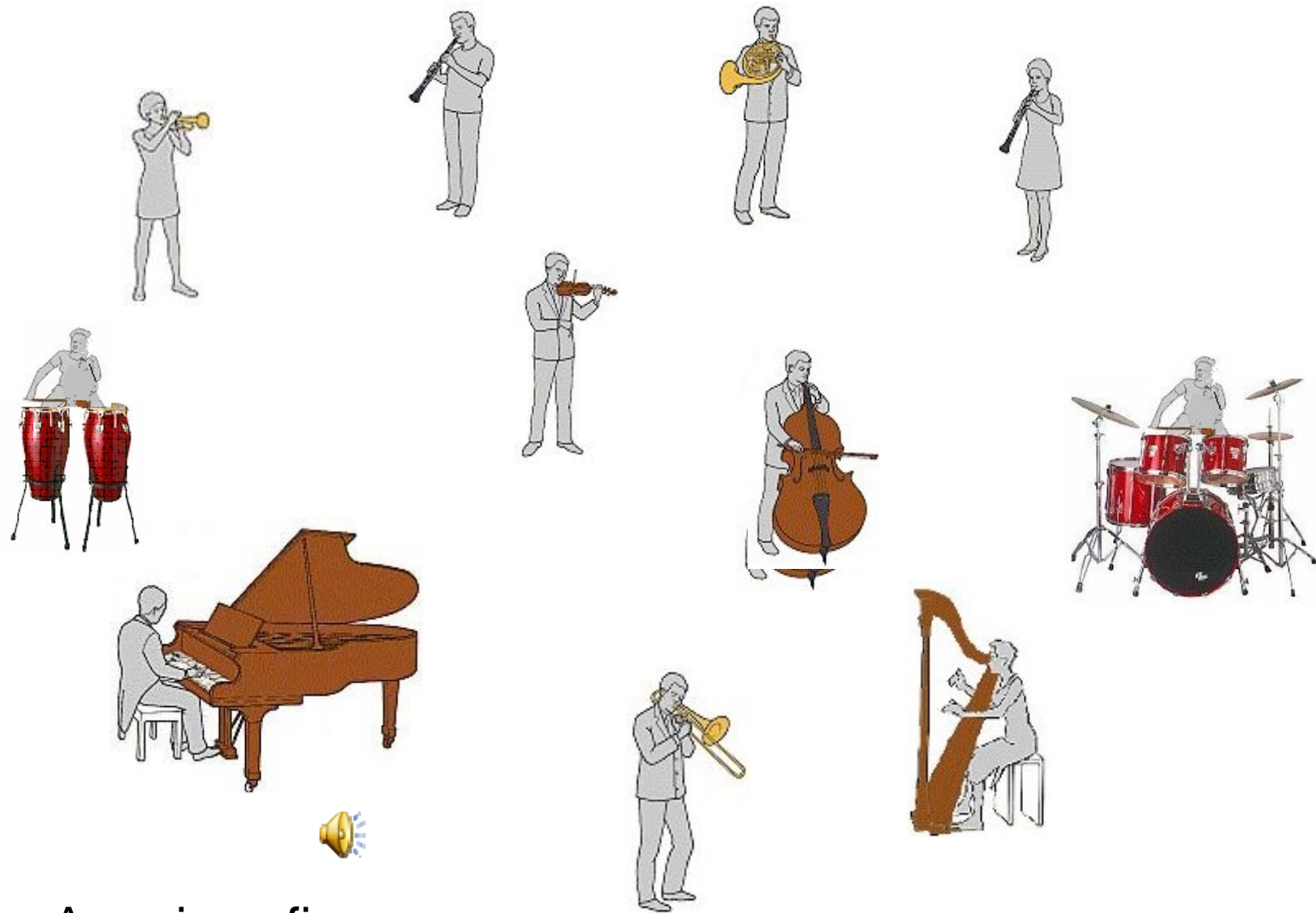


- Fumonisin

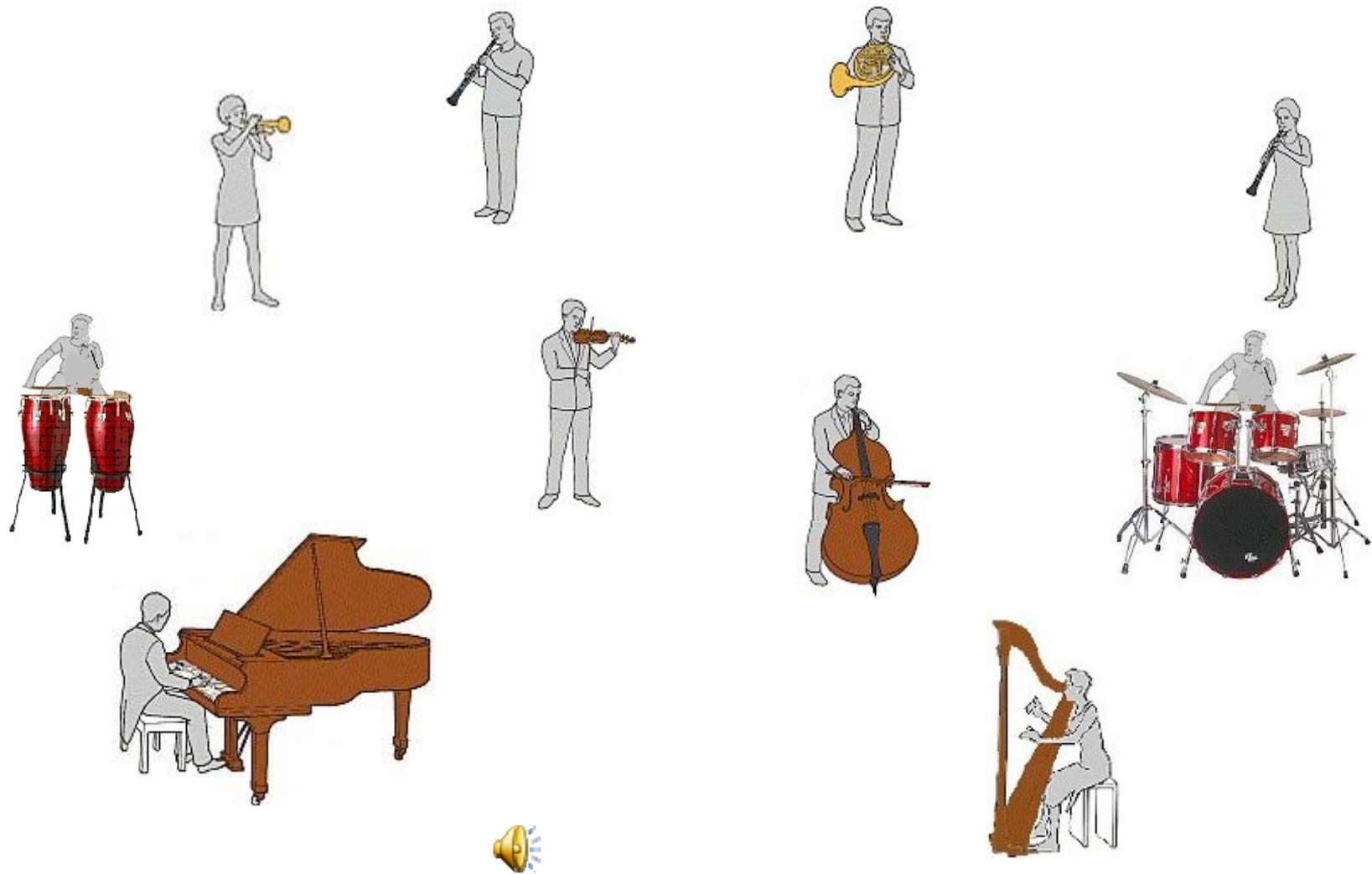
- Which tunes they play depends on the region. Therefore although the instruments are the same the outcoming melody (collection of tunes) is different.
- Here are three applications



Turkish fig 📢



American fig



Mexican fig