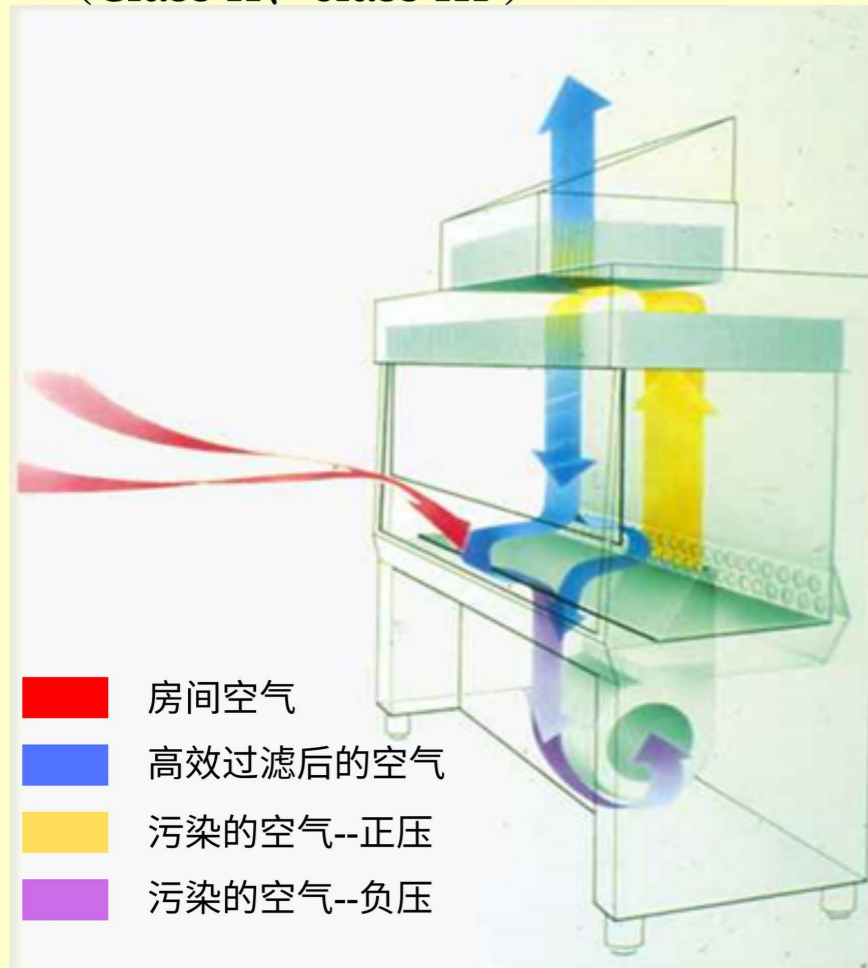


### 生物安全柜 ≠ 洁净台 ≠ 通风橱



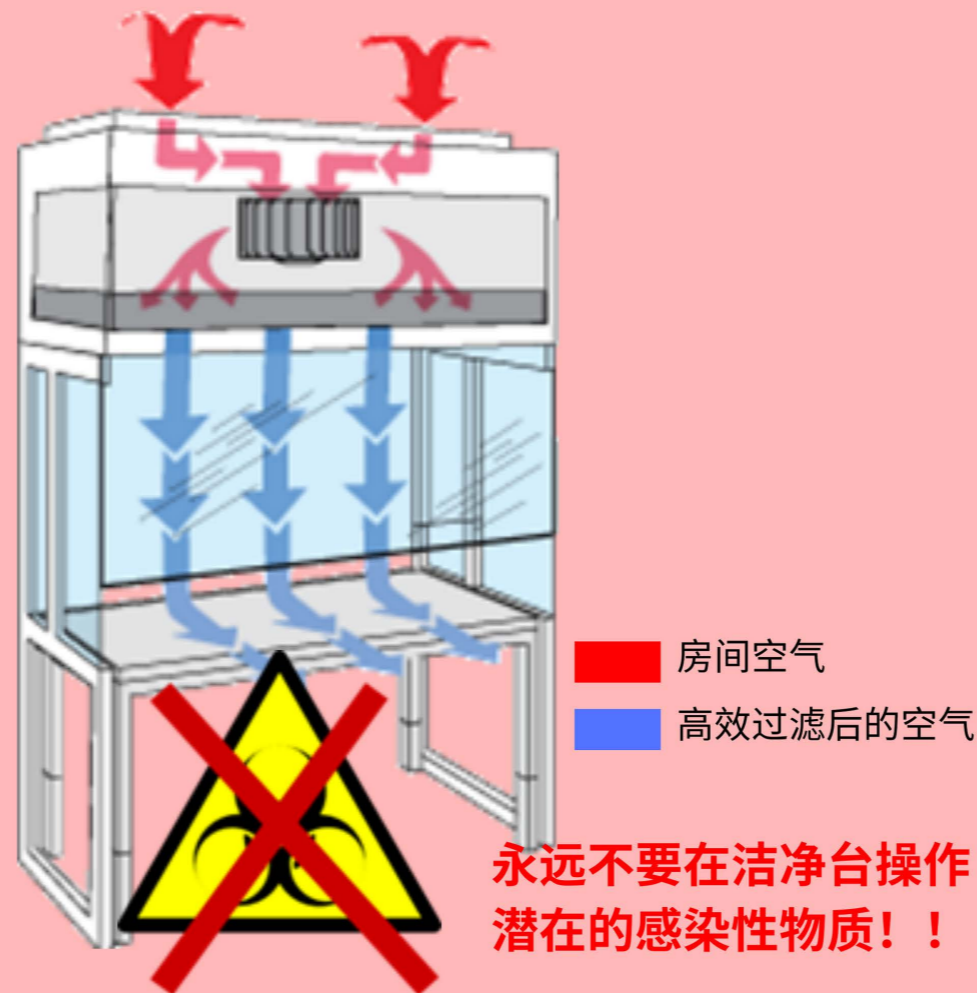
#### 生物安全柜

- 房间空气经过高效过滤器过滤后进入生物安全柜
- 污染空气经过高效过滤器过滤后排入房间内
- 同时保护实验人员、环境和实验产品 (Class II、class III)



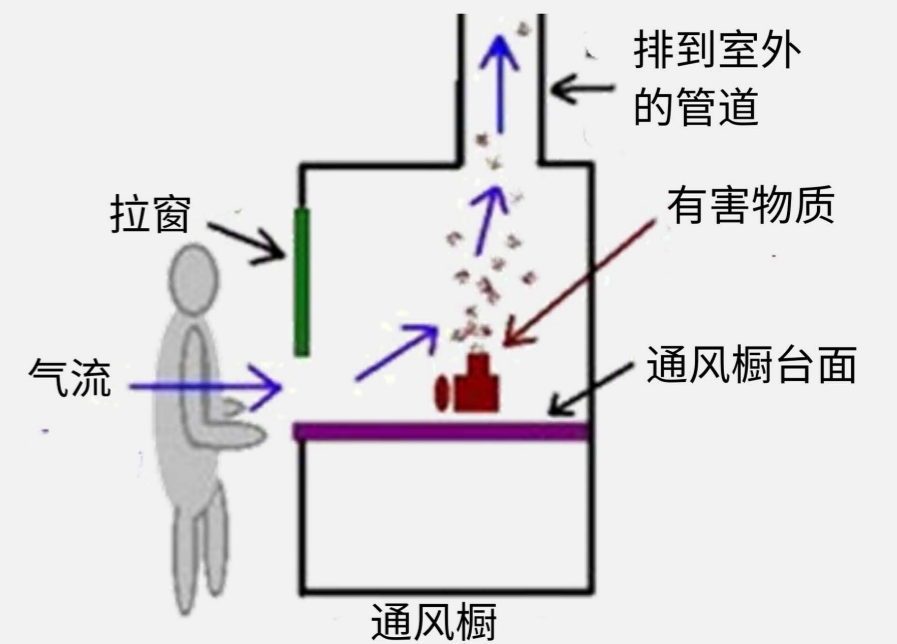
#### 洁净台

- 房间空气经过高效过滤器过滤后进入洁净台
- 垂直或水平层流
- 仅保护实验产品---无菌组件、细胞培养基制备
- **不**保护实验人员及环境



#### 化学通风橱

- 捕获/控制/稀释有害蒸汽、烟雾、颗粒物
- 保护实验人员
- 不保护产品
- 排废气管道如果装有空气净化装置, 可以保护环境



# Safety Moment

H&E  
HKUST(GZ)  
NO. 017  
Jul 15, 2024



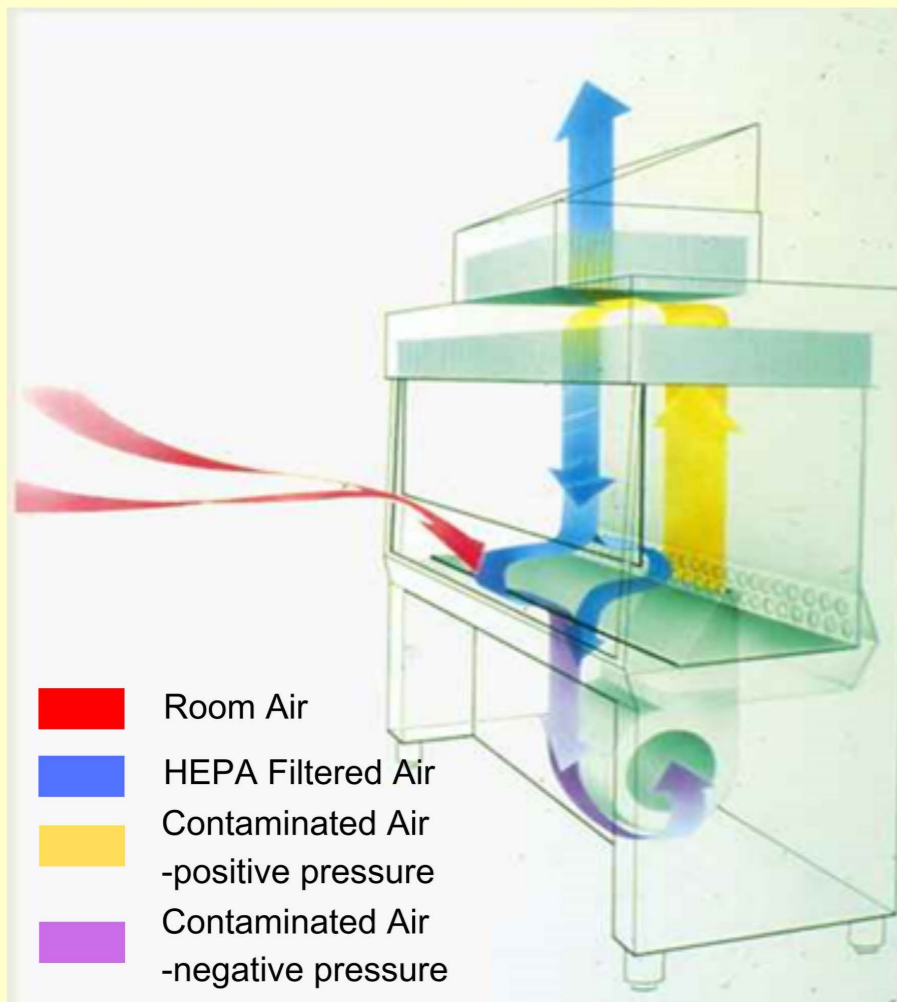
## Biosafety (II)

### BSC ≠ Laminar Flow Hood ≠ Chemical Fume hood



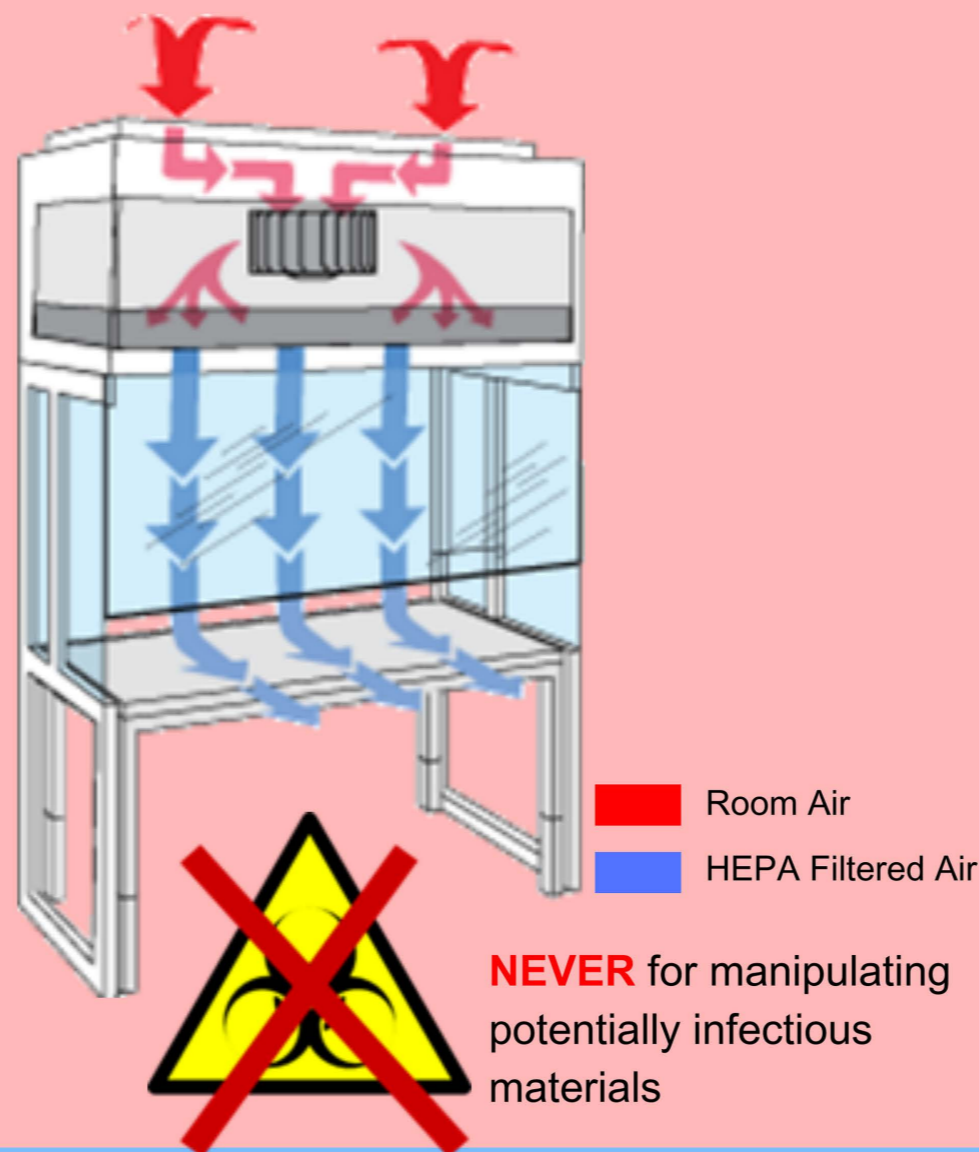
#### Biological Safety Cabinet

- HEPA filtered laminar air flow
- Exhaust air HEPA filtered
- Personnel, environment & product protection (Class II, class III )



#### Laminar Flow Hood

- HEPA filtered air (Intake only)
- Vertical or horizontal laminar flow
- Product protection only - sterile assembly, cell culture media preparation



#### Chemical Fume Hood

- Capture/ contain/dilute hazardous vapors, fumes, particulates
- Personnel protection
- Does not protect the product
- Environment may be protected by air cleaning devices

