Analysis

ABB

2023-05-30

## Plan of analysis to be carried out

for simple diagrams, a

for complex connections - sankey diagram - for the link between printing methods + printing model with a link to the bioink type (+ origin)?

first things first, to give numbers of studies that report e.g. A or B

# Printing Techniques

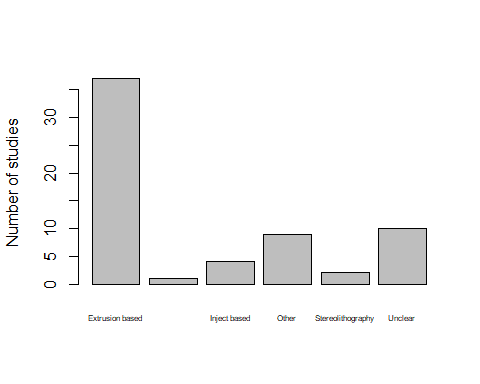
Give an overview of the different printing techniques, - method - printer model - printer source - forms - software

## Kind of Printer Method

table(reconciled$`4.1 What kind of printing method is used?\_ae684e28-4f90-44ad-9de2-731d076de0b0\_Answer`)

##   
## Extrusion based Extrusion based|Unclear Inject based   
## 37 1 4   
## Other Stereolithography Unclear   
## 9 2 10

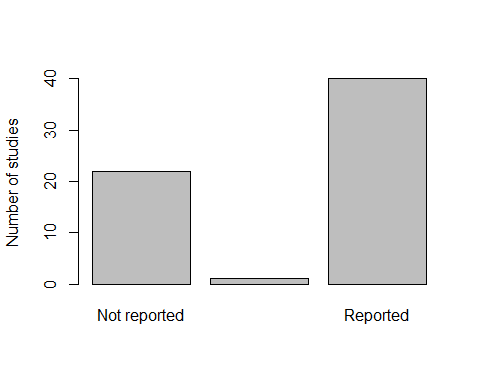
##  
 # Extrusion based Extrusion based|Unclear Inject based   
 # 37 1 4   
 # Other Stereolithography Unclear   
 # 9 2 10  
  
  
barplot(table(reconciled$`4.1 What kind of printing method is used?\_ae684e28-4f90-44ad-9de2-731d076de0b0\_Answer`), ylab = "Number of studies", cex.names=.5)

 ## Reporting of Printer Model

#### Reporting of Printer Model  
  
table(reconciled$`4.1.1 Do the authors report the printer model name/number?\_a3e72486-56d3-4154-a45f-9fb87b8612fc\_Answer`)

##   
## Not reported Not reported|Reported Reported   
## 22 1 40

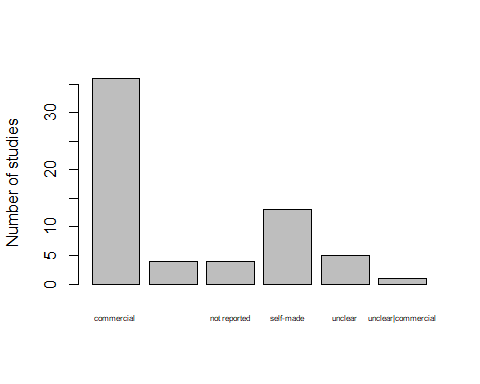
# Not reported Not reported|Reported Reported   
 # 22 1 4  
  
barplot(table(reconciled$`4.1.1 Do the authors report the printer model name/number?\_a3e72486-56d3-4154-a45f-9fb87b8612fc\_Answer`), ylab = "Number of studies")

 ## Printer Source

#### Reporting of Printer Source  
  
table(reconciled$`4.1.2 What is the source of the printer?\_102ba965-5234-4b3e-8b23-bd70cf4e074d\_Answer`)

##   
## commercial modified commercial not reported self-made   
## 36 4 4 13   
## unclear unclear|commercial   
## 5 1

# commercial modified commercial not reported   
 # 36 4 4   
 # self-made unclear unclear|commercial   
 # 13 5 1  
  
barplot(table(reconciled$`4.1.2 What is the source of the printer?\_102ba965-5234-4b3e-8b23-bd70cf4e074d\_Answer`), ylab = "Number of studies", cex.names=.5)

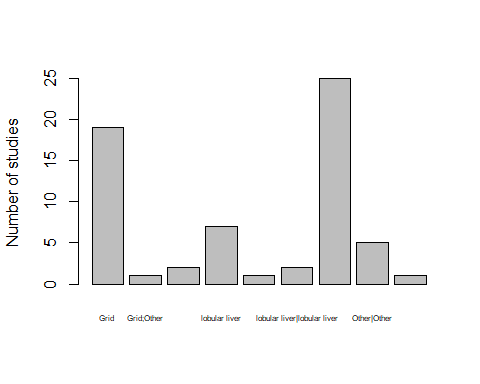


## Printer Forms

#### Reporting of Printer forms  
  
table(reconciled$`4.1.4 What kind of forms are printed with this ink?\_01d3ca37-1e2f-4087-8f39-c183f98f0c4e\_Answer`)

##   
## Grid Grid;Other   
## 19 1   
## Grid|Grid lobular liver   
## 2 7   
## lobular liver;Other lobular liver|lobular liver   
## 1 2   
## Other Other|Other   
## 25 5   
## Toroids   
## 1

# Grid Grid;Other   
 # 19 1   
 # Grid|Grid lobular liver   
 # 2 7   
 # lobular liver;Other lobular liver|lobular liver   
 # 1 2   
 # Other Other|Other   
 # 25 5   
 # Toroids   
 # 1  
  
barplot(table(reconciled$`4.1.4 What kind of forms are printed with this ink?\_01d3ca37-1e2f-4087-8f39-c183f98f0c4e\_Answer`), ylab = "Number of studies", cex.names=.5)

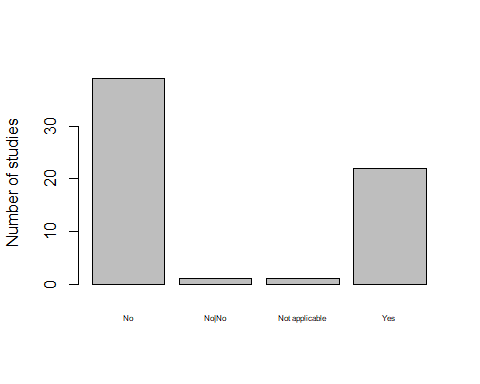


## Printer Software

#### Reporting of Printer software  
  
table(reconciled$`4.1.5 Do the authors report the name of the 3D modelling software?\_f88d82a9-410c-4118-ad6a-4535d12c4aca\_Answer`)

##   
## No No|No Not applicable Yes   
## 39 1 1 22

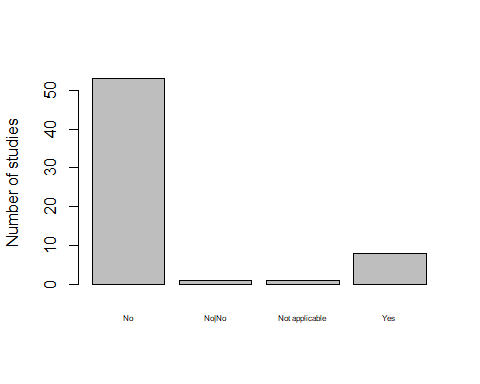
# No No|No Not applicable Yes   
 # 39 1 1 22  
  
barplot(table(reconciled$`4.1.5 Do the authors report the name of the 3D modelling software?\_f88d82a9-410c-4118-ad6a-4535d12c4aca\_Answer`), ylab = "Number of studies", cex.names=.5)



## Slicing Software  
  
table(reconciled$`4.1.6 Do the authors report the name of slicing software?\_bc07fc45-10aa-441f-9bdf-b32f5037389f\_Answer`)

##   
## No No|No Not applicable Yes   
## 53 1 1 8

# No No|No Not applicable Yes   
 # 53 1 1 8   
barplot(table(reconciled$`4.1.6 Do the authors report the name of slicing software?\_bc07fc45-10aa-441f-9bdf-b32f5037389f\_Answer`), ylab = "Number of studies", cex.names=.5)



# BioInks

Give an overview of the different inks used with these techniques. - type - origin - additives - density

Note that the echo = FALSE parameter was added to the code chunk to prevent printing of the R code that generated the plot.

# Liver Cells

And then it is liver specific variables. - main type of liver cells - info about liver cells

AN - Main type of liver cells

if comments from reconciled - print out for all to see.

if any of reviewer comments say HepG2

reconciled$`2.1 What is the origin of the cells in the liver model?\_d2a55b1d-f869-4fa4-83a1-94eeb126c6fb\_Answer` <- as.factor(reconciled$`2.1 What is the origin of the cells in the liver model?\_d2a55b1d-f869-4fa4-83a1-94eeb126c6fb\_Answer`)  
  
summary(reconciled$`2.1 What is the origin of the cells in the liver model?\_d2a55b1d-f869-4fa4-83a1-94eeb126c6fb\_Answer`)

## Animal Both Human   
## 4 14 45

#  
# Animal Both Human   
# 4 14 45

# Cells

What types of included cells? - human, animal, both

# Culture Conditions

What tpye of culture conditions? Liver Markers- what measurements?

# Quality

Quality Assays, storage conditions