

Construção de Impressora 3D

Laure Stelmastchuk

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Manufatura aditiva

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Estereolitografia

Stereolithography Aparatus(SLA)

Processamento Digital de Luz

Digital Light Processing (DLP)

Modelagem por Deposição de material Fundido

Fused Deposition Modeling (FDM)

Sinterização Seletiva a Laser

Selective Laser Sintering (SLS)

Fusão Seletiva a Laser

Selective Laser Melting (SLM)

Fusão por feixe de elétrons

Electronic Beam Melting (EBM)

Manufatura Laminar de Objetos

Laminated Object Manufacturing (LOM)

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Fusão Seletiva a Laser

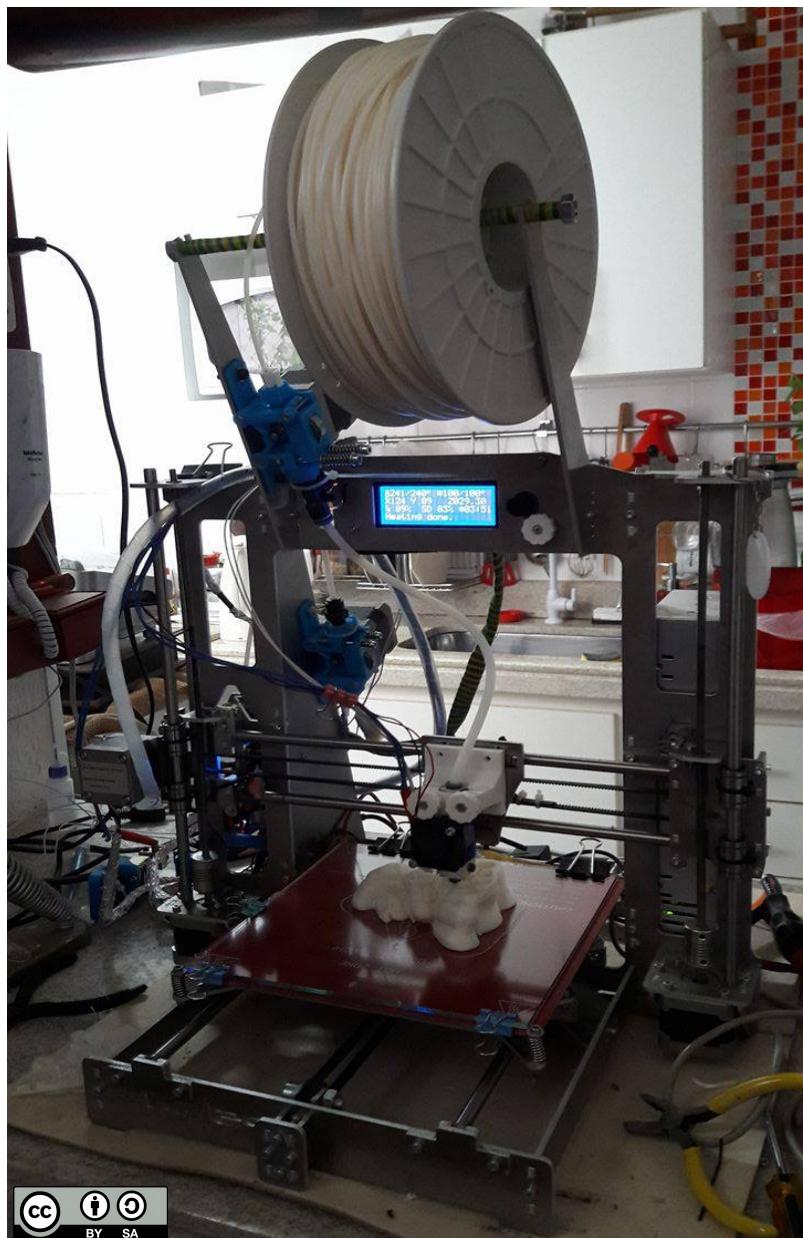
Selective Laser Melting (SLM)

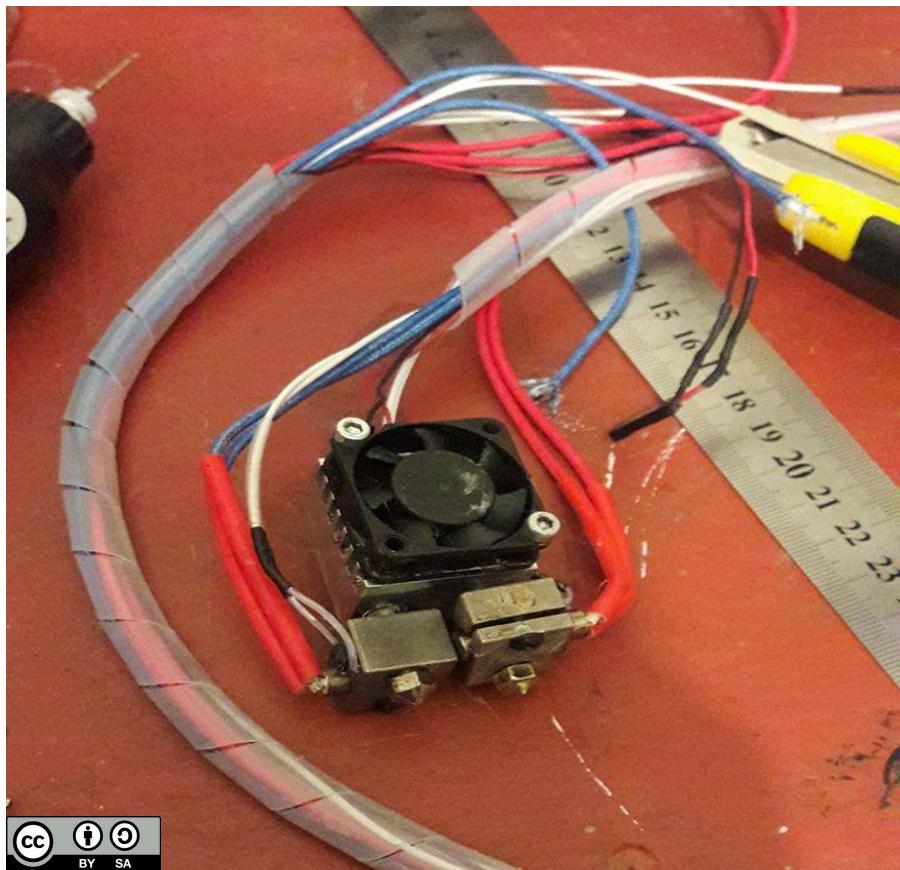
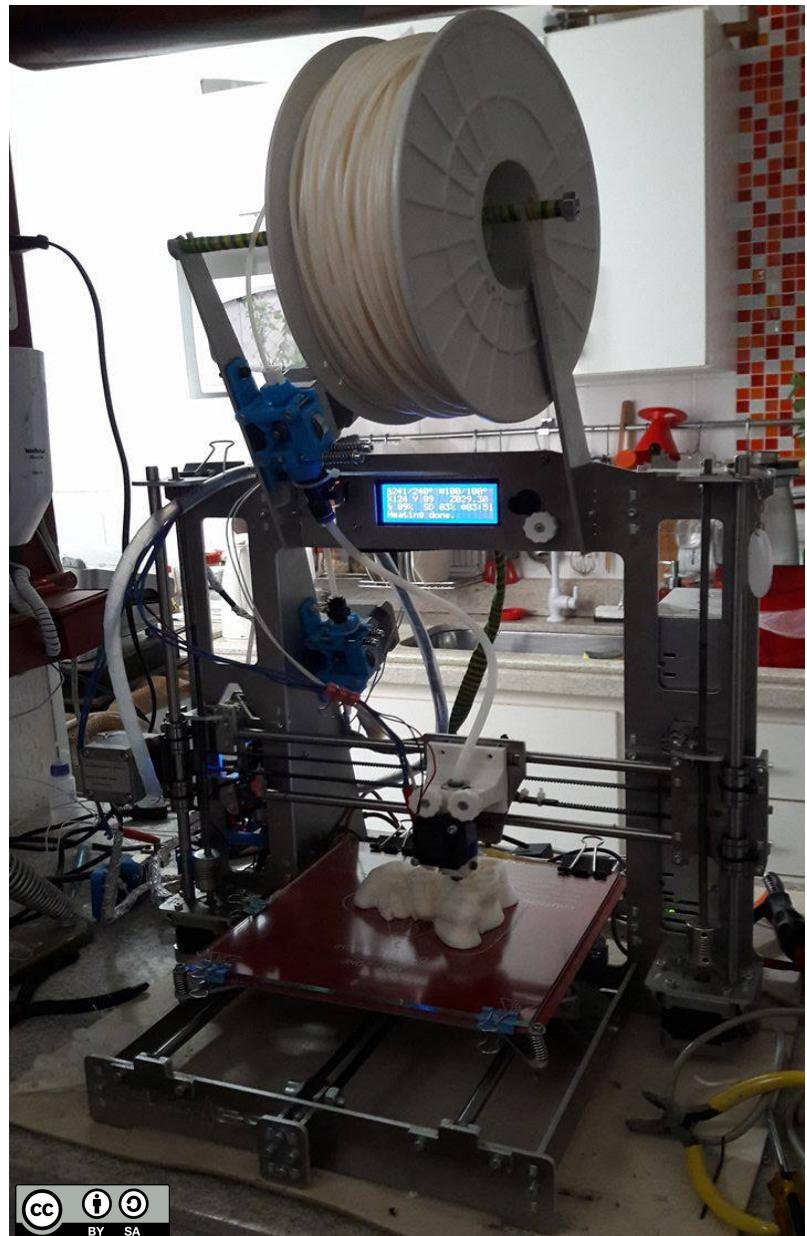
Fusão por feixe de elétrons

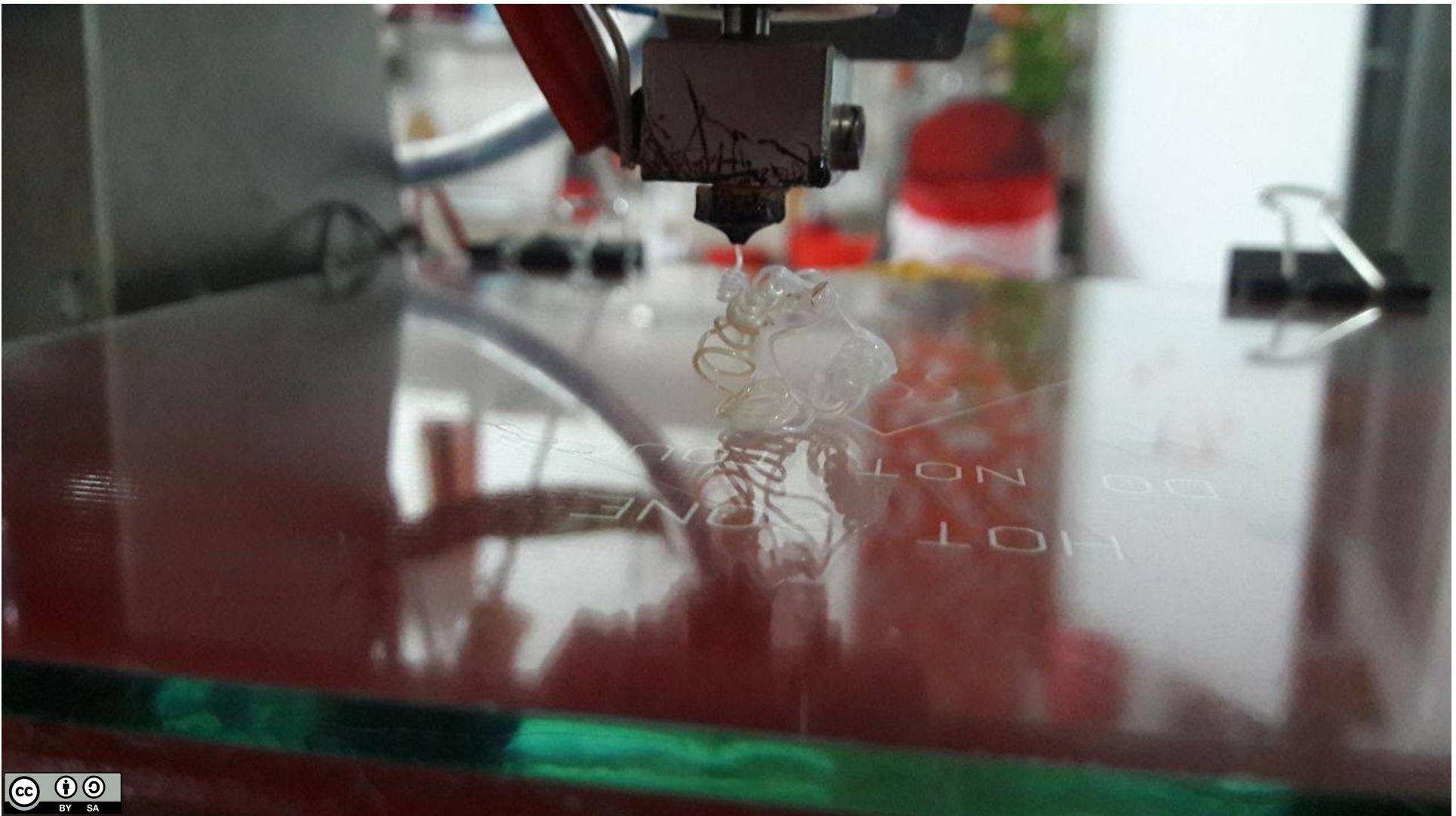
Electronic Beam Melting (EBM)

Manufatura Laminar de Objetos

Laminated Object Manufacturing (LOM)







MATERIAIS

| Pó | Plásticos | Metais | Alimentos |
|-------------|------------|--------|-----------|
| Gesso | ABS | Ligas | Chocolate |
| Cerâmica | PLA | | Massas |
| Vidro | HTPLA | | |
| Metal | Compósitos | | |
| Osso | Nylon | | |
| Aglutinante | | | |

CTI RENATO ARCHER
<https://www.cti.gov.br/>

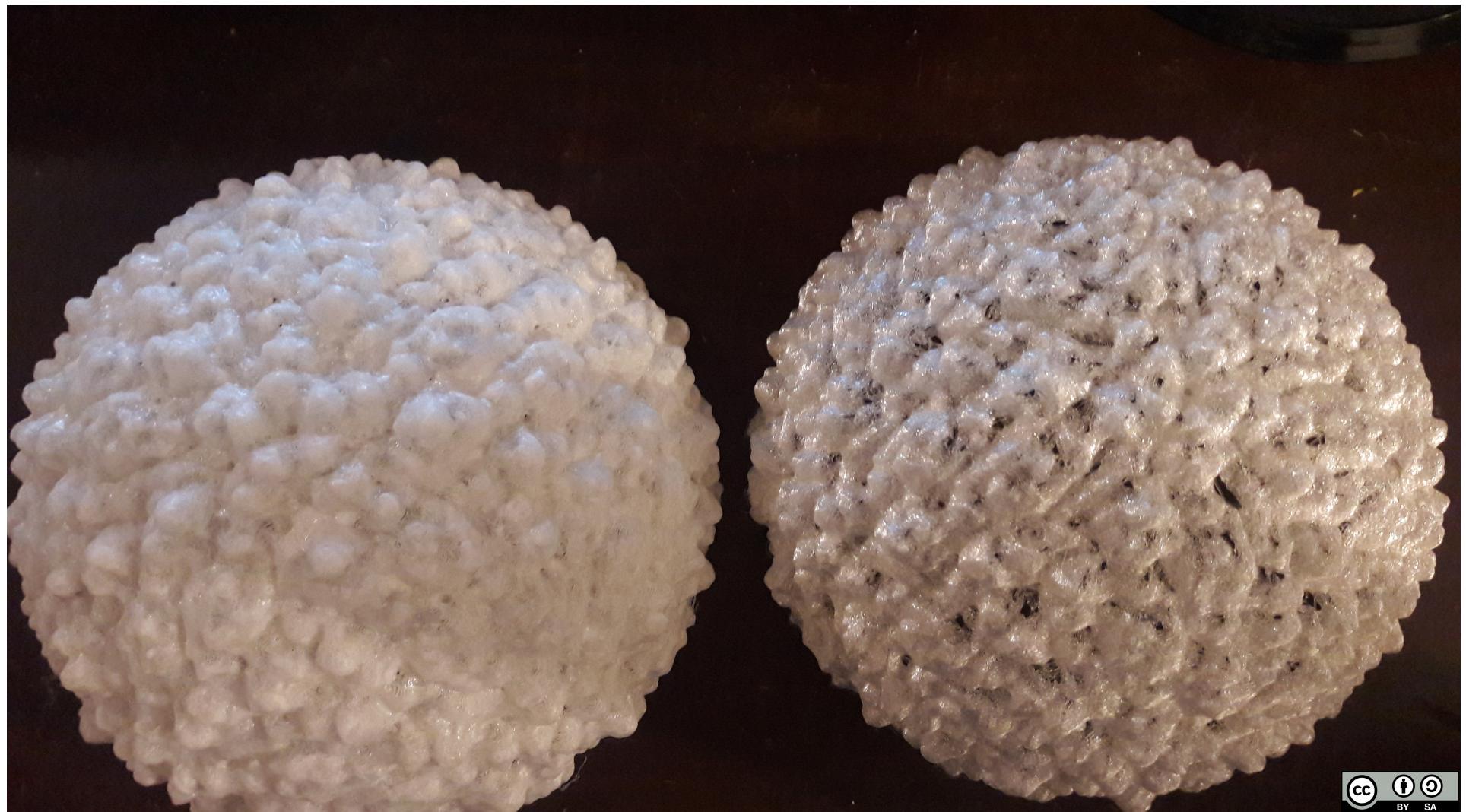
Resinas, Ceras, Hidrogéis e Células

| Pó | Plásticos | Metais | Alimentos |
|-------------|------------|--------|-----------|
| Gesso | ABS | Ligas | Chocolate |
| Cerâmica | PLA | | Massas |
| Vidro | HTPLA | | |
| Metal | Compósitos | | |
| Osso | Nylon | | |
| Aglutinante | | | |

Resinas, Ceras, Hidrogéis e Células

ABS
(Acrilonitrila butadieno estireno)

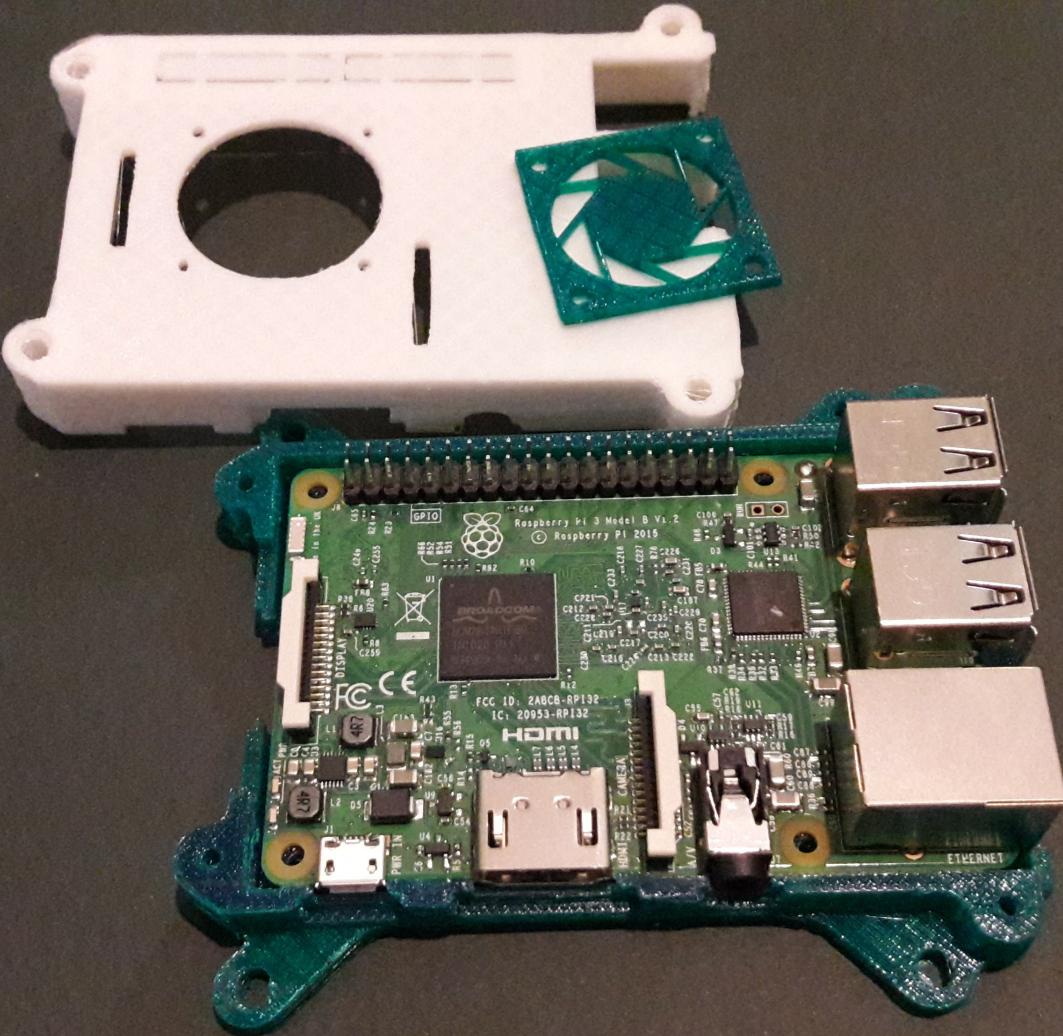
PLA
(Poliácido lático)

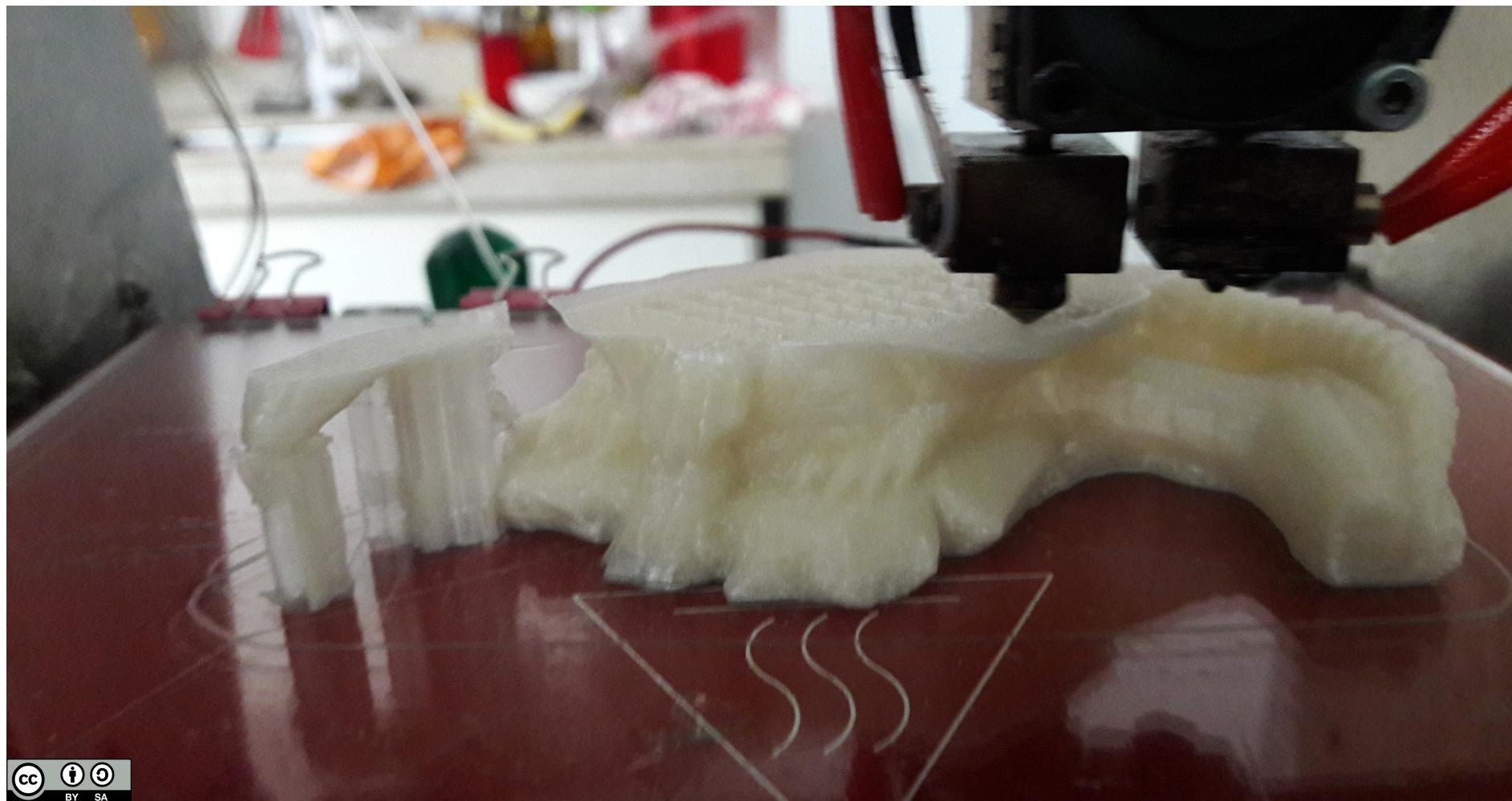




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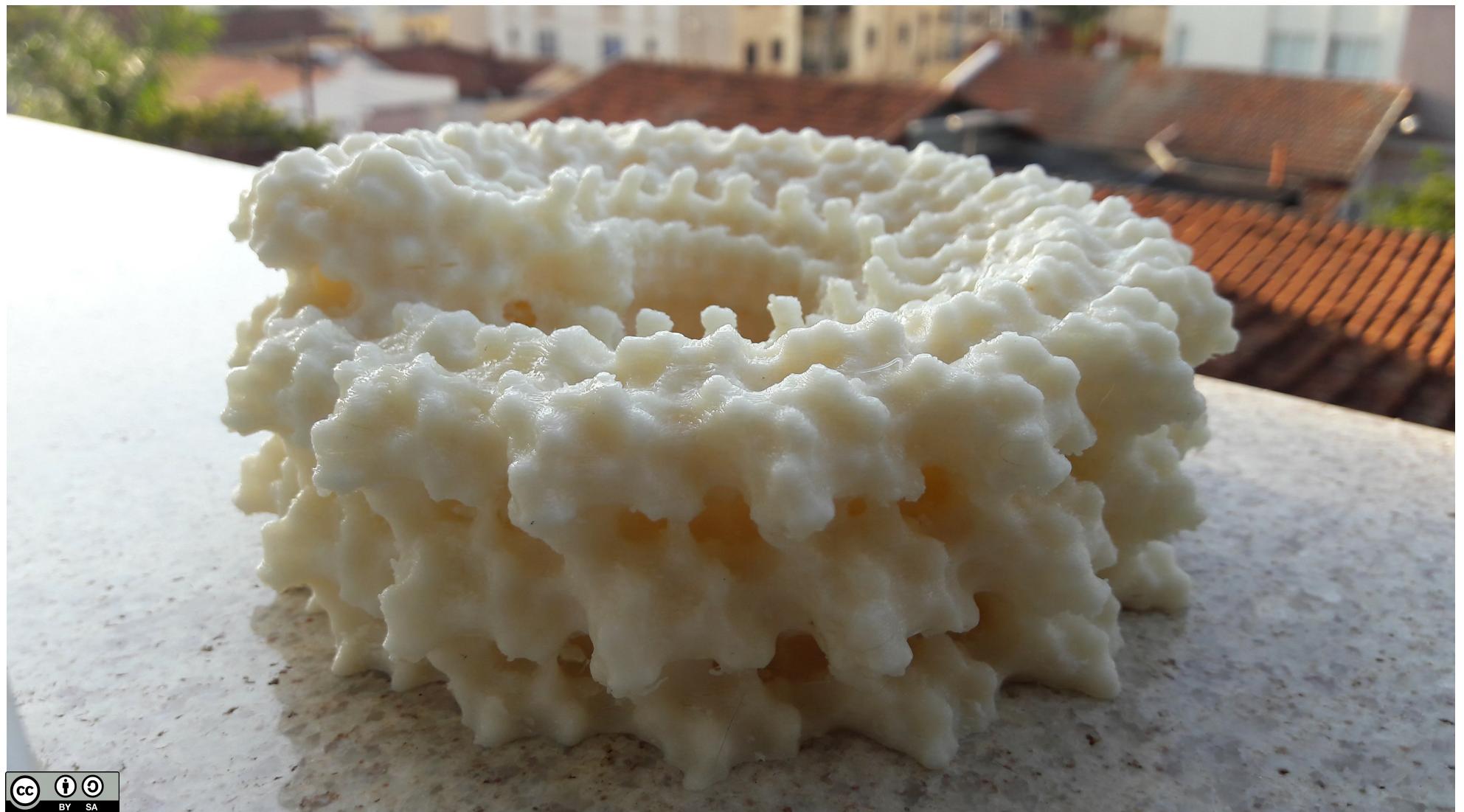






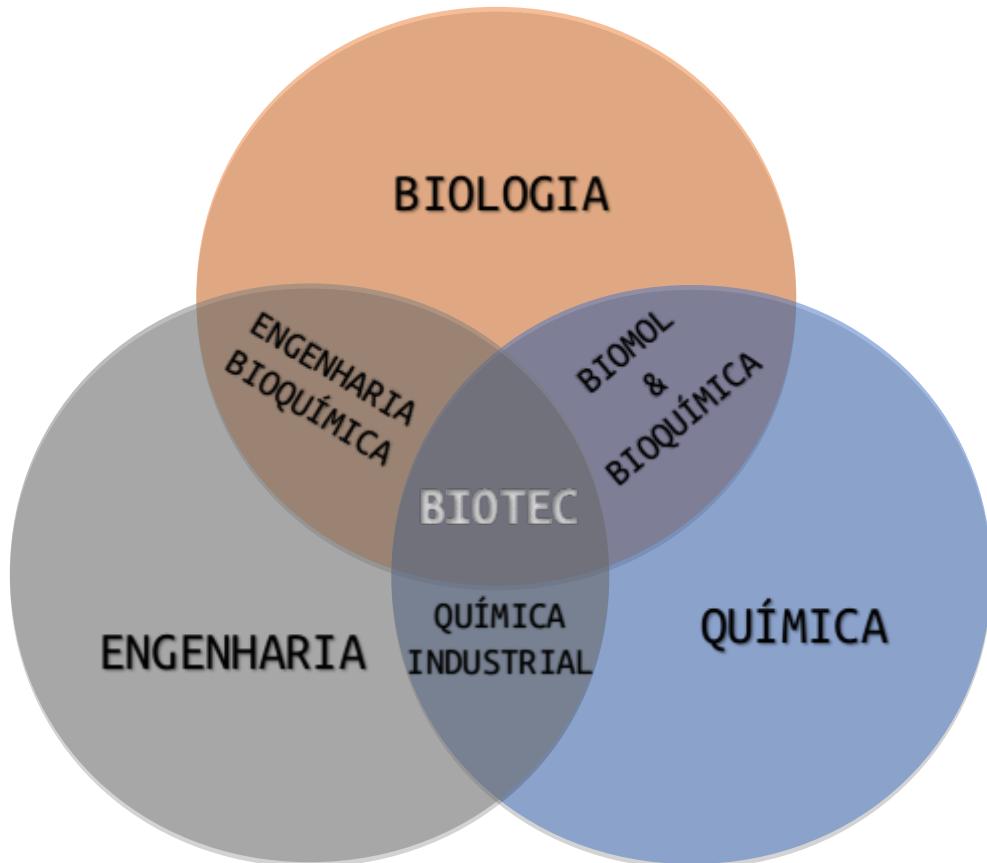






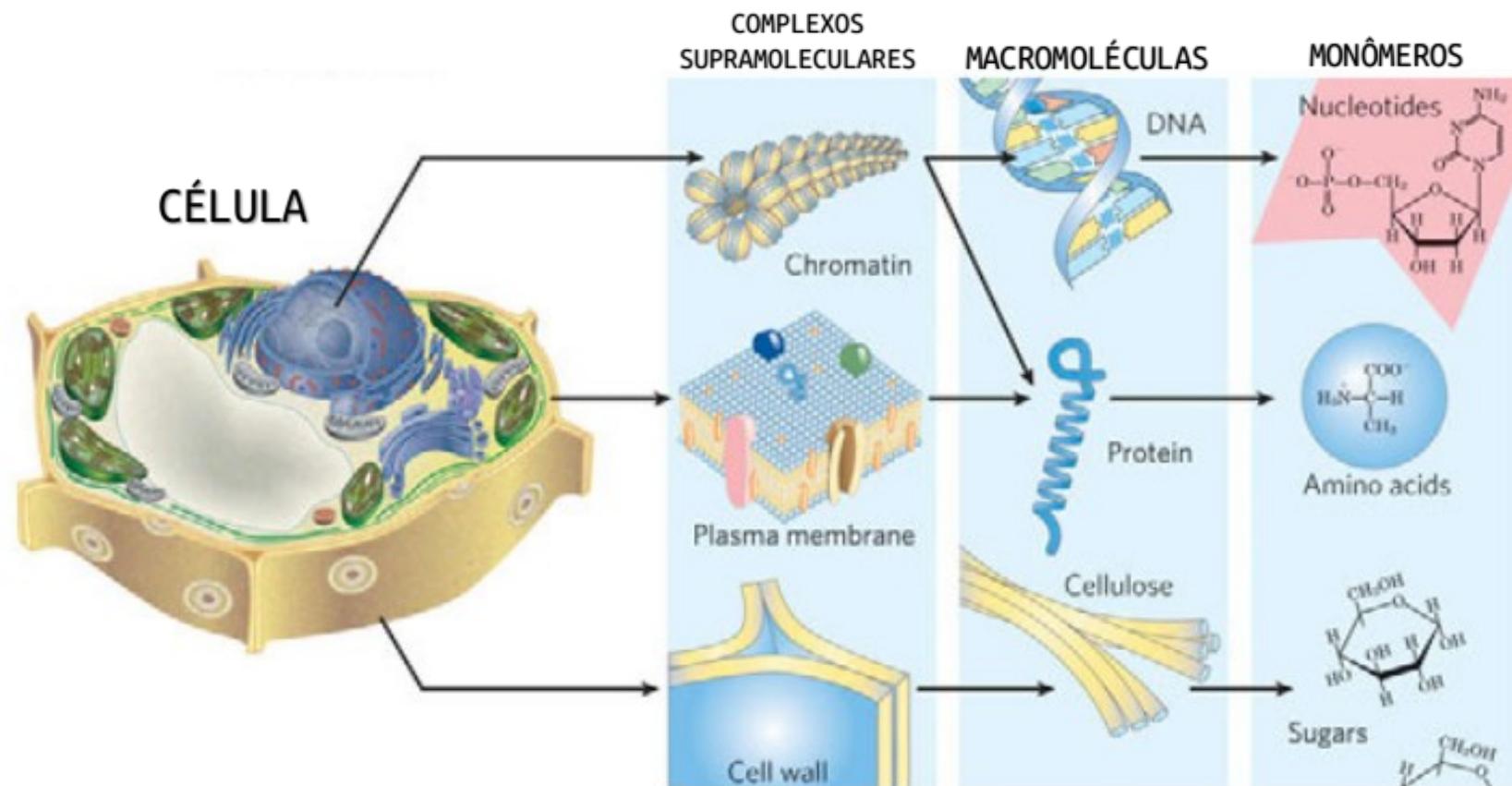
PAUSA
FARMÁCIA – BIOTEC – FÍSICA
IMPRESSÃO 3D?

O QUE É BIOTECNOLOGIA?

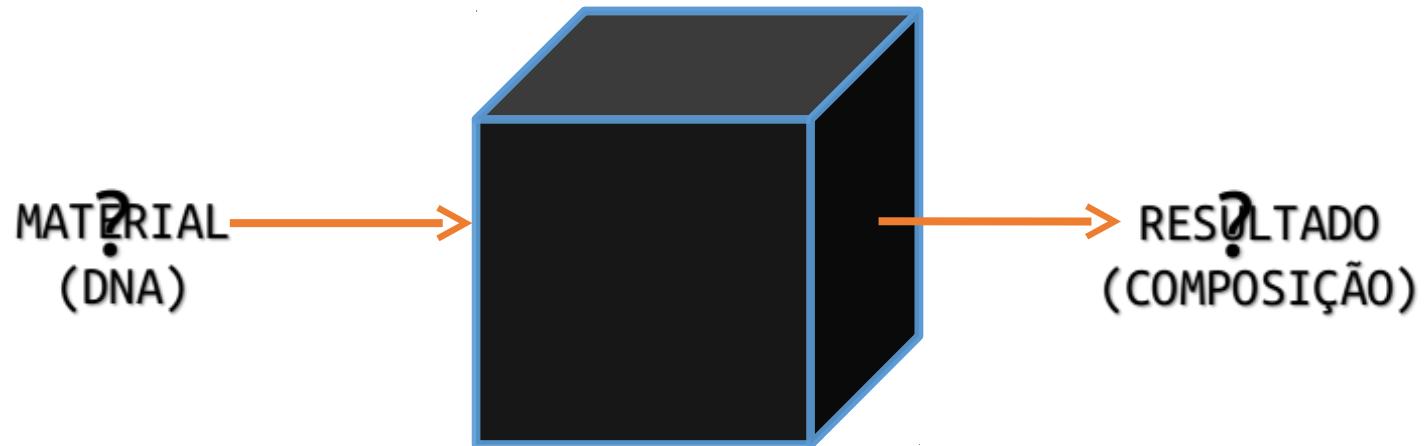


Processamento de material biológico com emprego de agentes biológicos

Bailey, JE & Ollis DF. Biochemical Engineering Fundamentals. McGraw-Hill Book Company, Nova York, 1986.

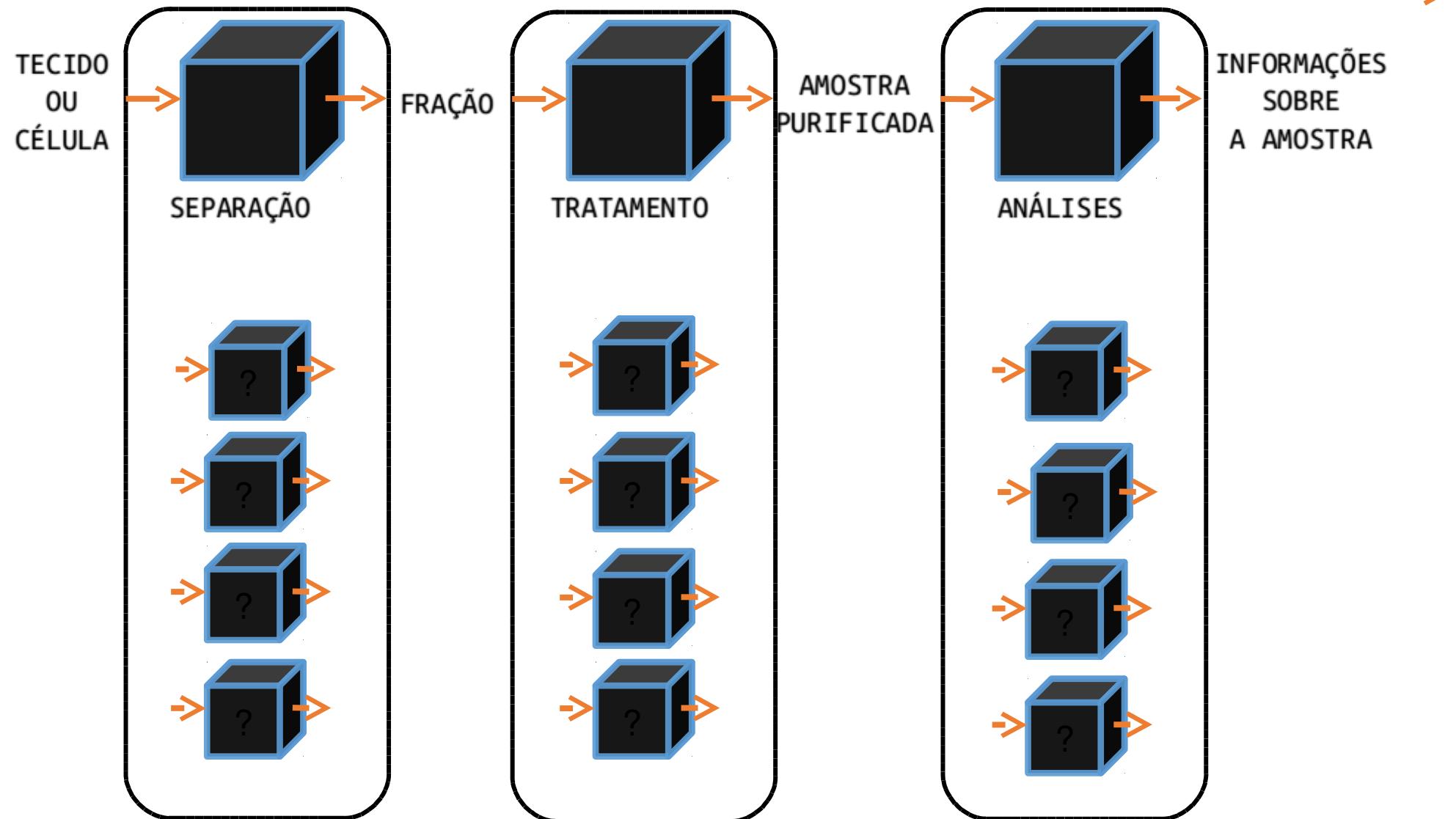


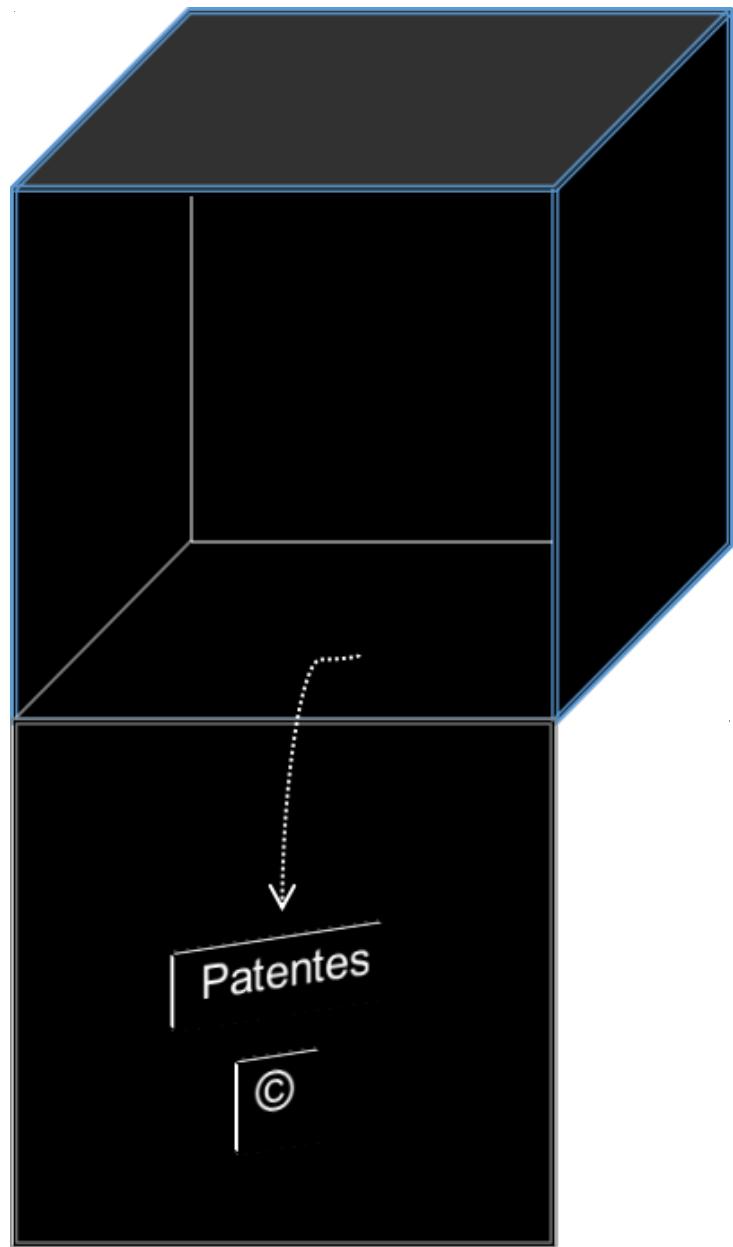
Nelson DL, Cox MM. Lehninger Principles of Biochemistry. 4th ed. New York: W. H. Freeman; 2005.



OBTENÇÃO
TRATAMENTO
ANÁLISE
PROCESSAMENTO DE DADOS

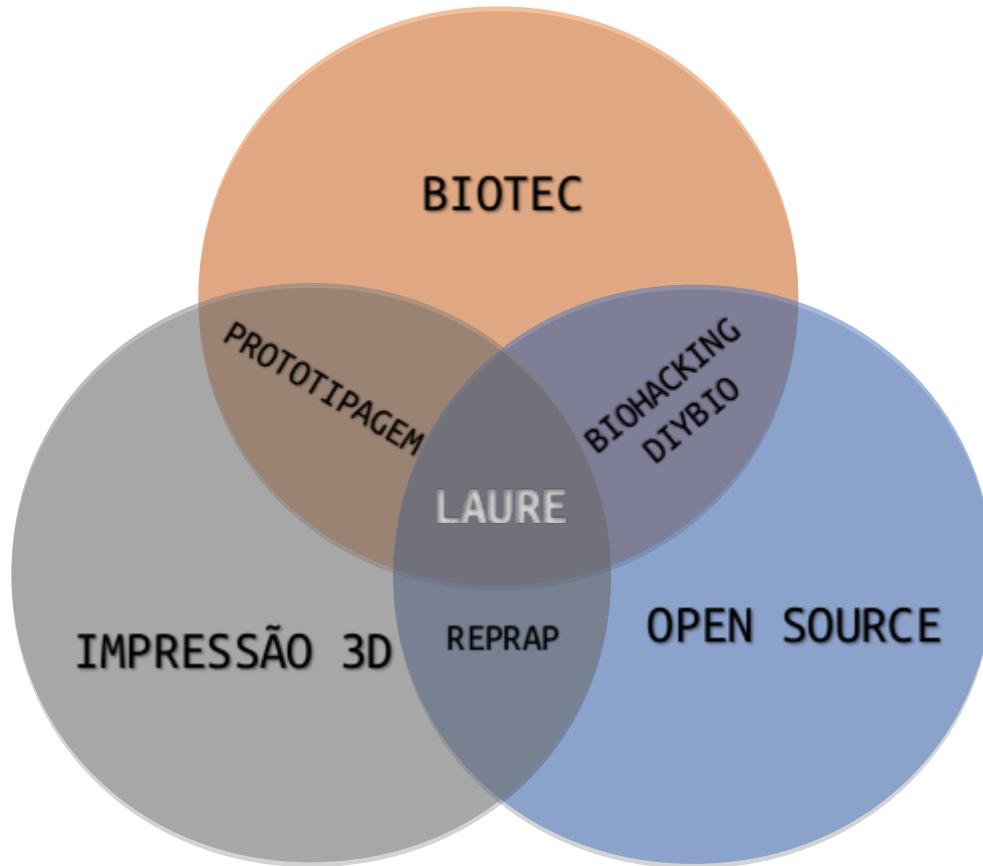
OBTENÇÃO DE BIOMOLÉCULAS PIPELINE





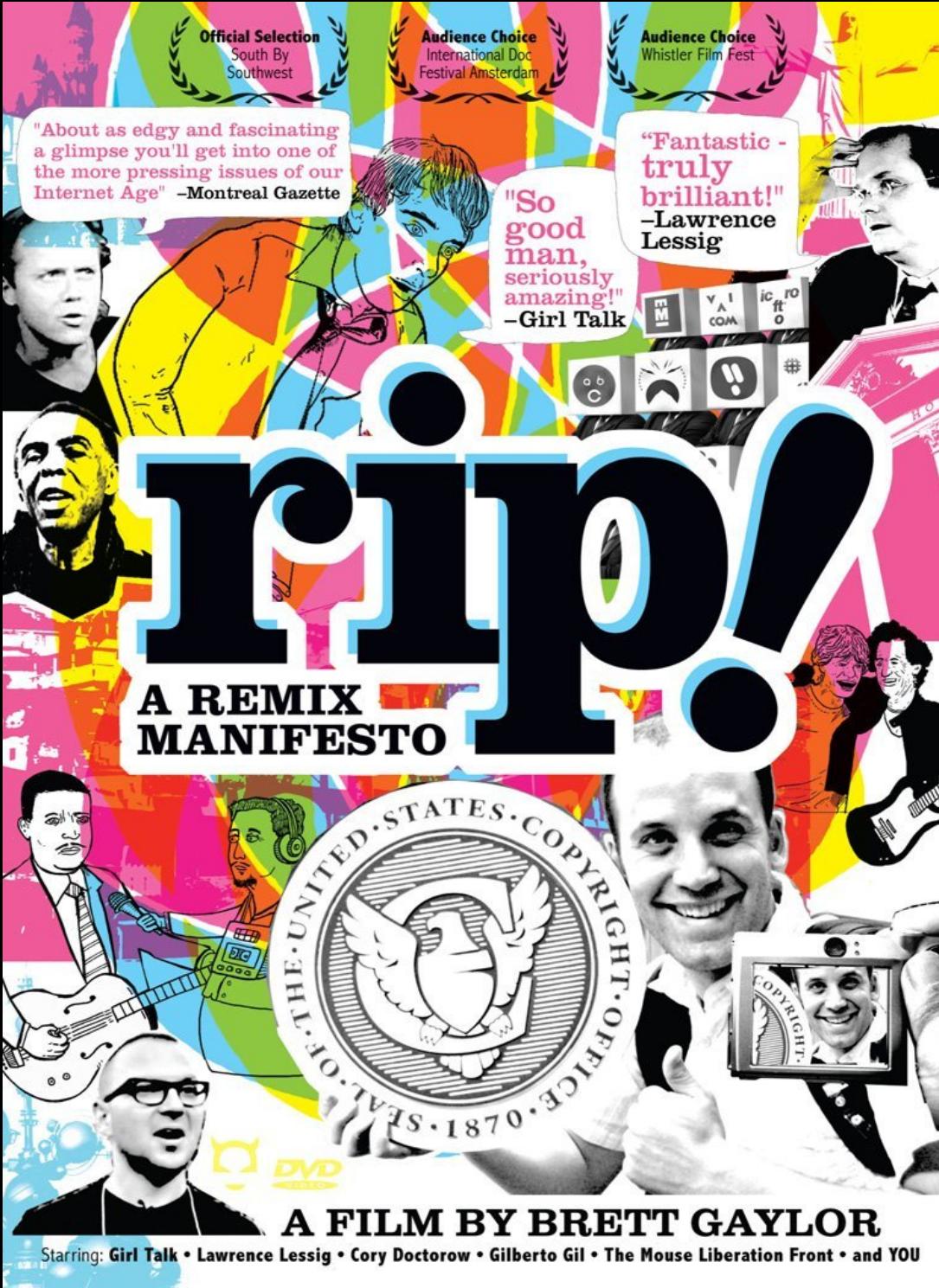
Patentes

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SOFTWARE/HARDWARE LIVRE



2009 RIP! A Remix Manifesto