

WORKSHEET
Science on Saturday

Seed, Soil, and Spread: 3D bio-printed model for metastatic brain tumors

Video Links:

[3D bio-printed model for metastatic brain tumors](#)

Presenters:

Monica Moya, Javier Alvarado, Karen Dubbin, William Hynes, Claire Robertson – LLNL Scientists
Melody McGill - Biology Teacher - Roosevelt Junior High School

Student Lecture Notes:

1. What is cancer?
2. What is metastasis?
3. What is the purpose of the blood brain barrier (BBB)?
4. What are the four dimensions of the bioprinting process?
5. What happens in the post print process?
6. What are the tools you print with in 3D Bio-printing?
7. What is a bio-ink?
8. Name two factors that affect bio-inks.
9. What are factors that affect printability?
10. What are the factors of a good model?
11. What is the purpose of fluorescence?
12. Where in the vessel is the greatest flow?