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Project Overview

• Goal: Optimize sectioning procedure for MALDI imaging of MTS

• Why?
  – MTS are better models of *in vivo* tumors than 2D cultures
  – MALDI imaging can provide spatial distributions of metabolites
MTS embedded in colored gelatin

H&E stained slides

Gelatin block of MTS on the cryotome
Rewarding Experiences

• Learning new lab skills and how to use instruments
• First-hand experience of what it's like to be a grad student
• Achieving all the goals set out at the beginning of my work
• Traveling around Scotland and Europe
Future Research

• Now, we have a reproducible procedure for sectioning MTS and prepping them for MALDI analysis
• This fall, a PhD student will take what I did over the summer and use it to study the metabolism of tumors
My Future

• Solidified my plans to go to grad school and get my PhD
• Gained experience in a new field that I would like to possibly do my PhD in
• Learned techniques that will be useful for thesis lab work
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