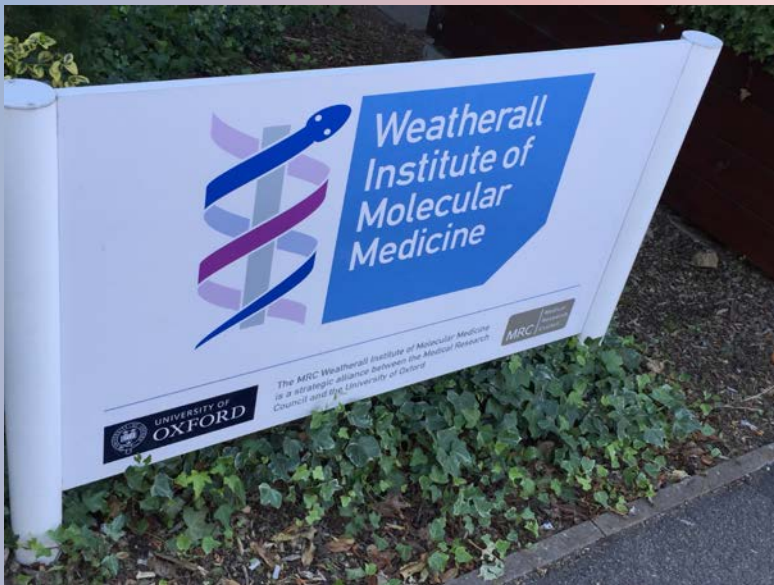


**Sam Maron**  
**Class of 2017**

**Weatherall Institute of  
Molecular Medicine  
Oxford University,  
Oxford, UK  
Summer 2015**



Top: walk to John  
Radcliffe Hospital

Bottom: Front sign  
of WIMM

# Work and Responsibilities

- Help postdoc and PhD students in De Bruijn Lab with their projects on hematopoietic stem cell (HSC's) regulation
- Methodologies included:
  - PCR (polymerase chain reaction)
  - Cryostat sectioning
  - Immunofluorescence (section and “whole-mount”
    - Analysis of 3-D whole-mount images using ‘Imaris’ program
  - ES (embryonic stem) cell tissue culture
  - FACS (fluorescence activated cell sorting)/Flow Cytometry

# PhD Students Discuss Experiments





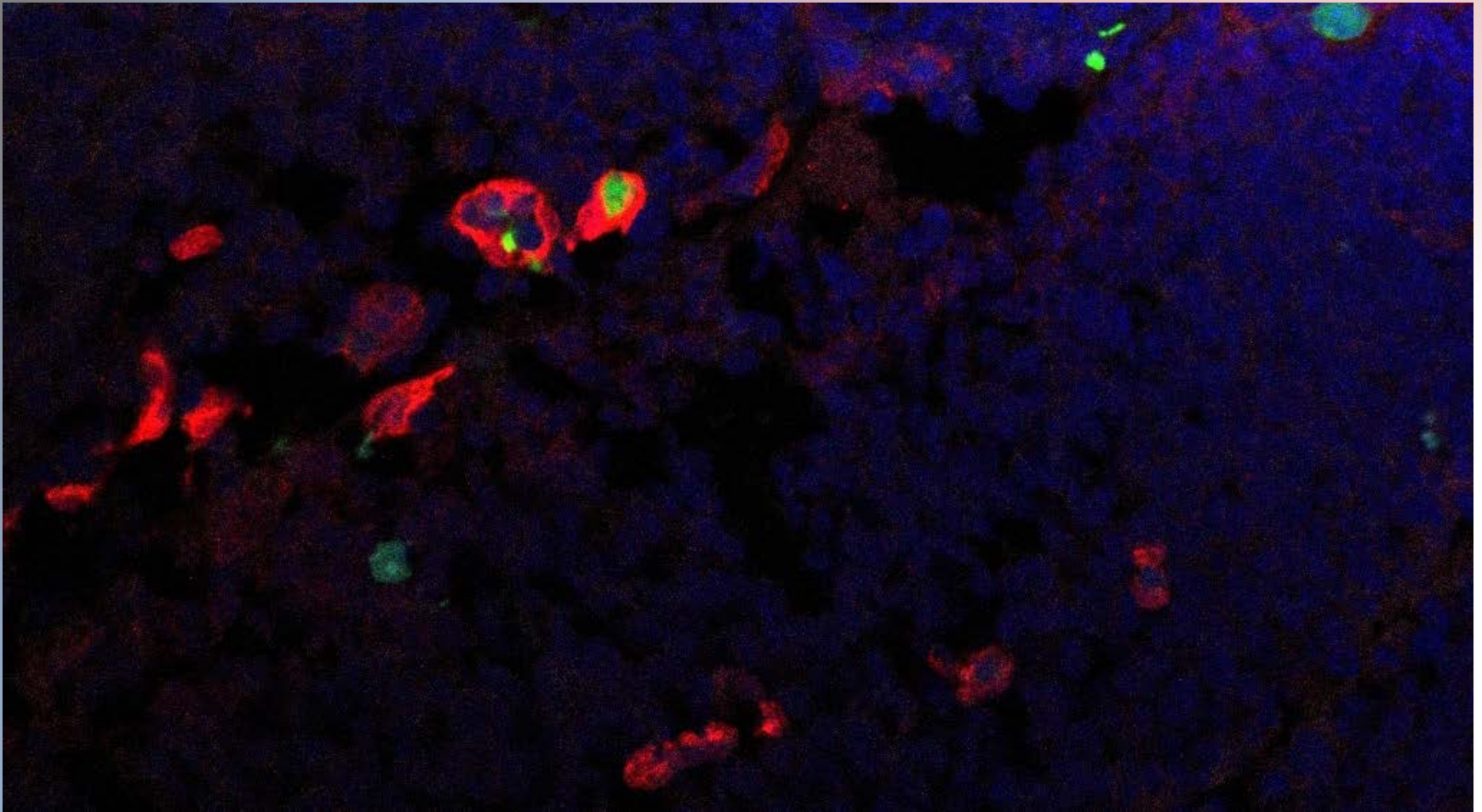
# Rewarding Experience

- Postdoc who I worked most closely with went on holiday for over 2 weeks
- Left me with a list of immunofluorescence and embryology experiments
- Completed them entirely independently using the knowledge I had learned from the other members of the lab during the first month

# My Impact

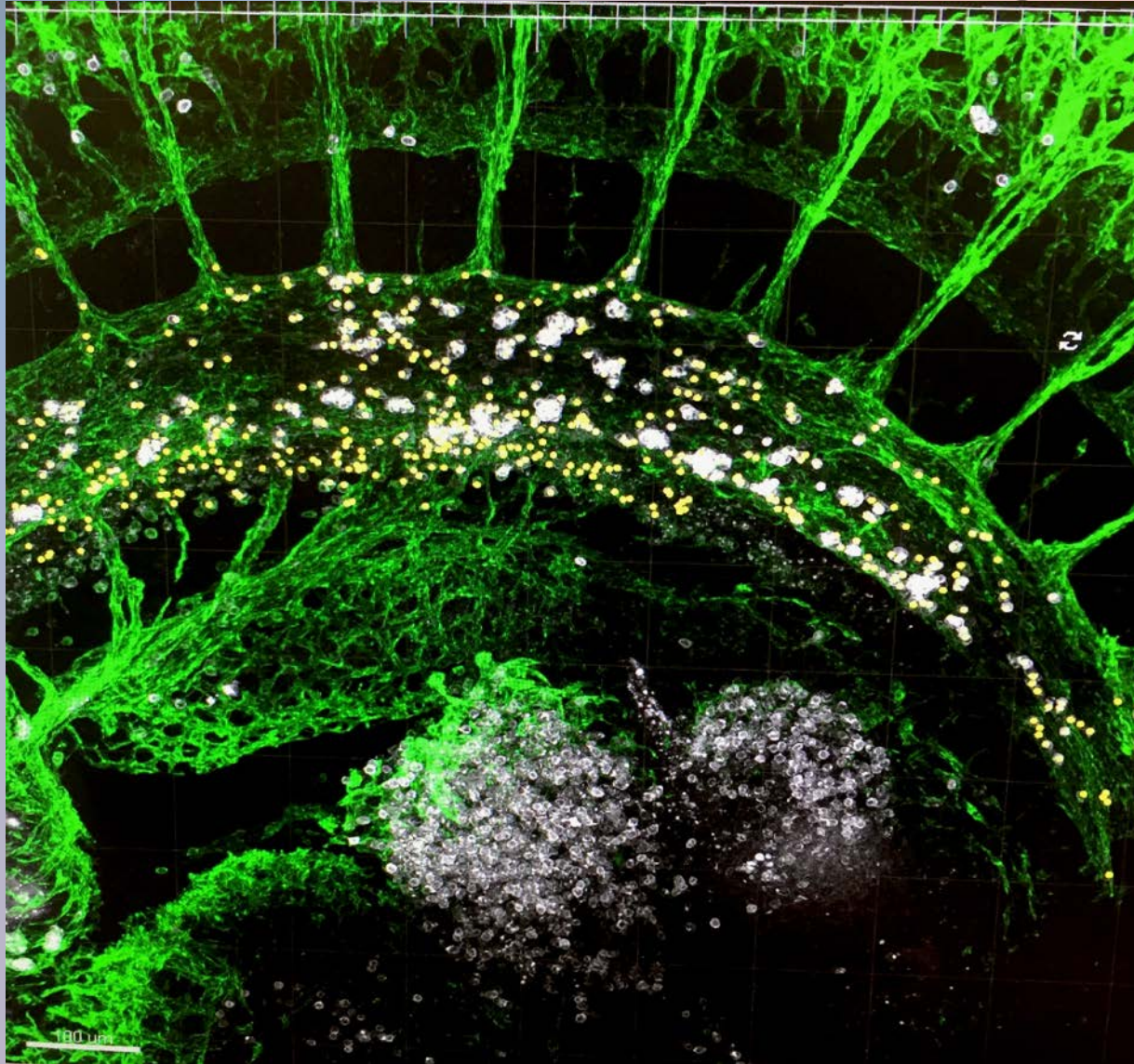
- Established useful antibodies for use in future experiments
- Completed HSC experiments on mouse embryos and placentas
- Completed 'Imaris'-based analyses of HSC datasets for presentations
- Became largely independent member of lab able to learn quickly and help lab members efficiently with experiments

# E10.5 Mouse Embryo Immunofluorescence Section





# E10.5 Embryo Aorta in 3-D 'Imaris' Whole-Mount Rendering

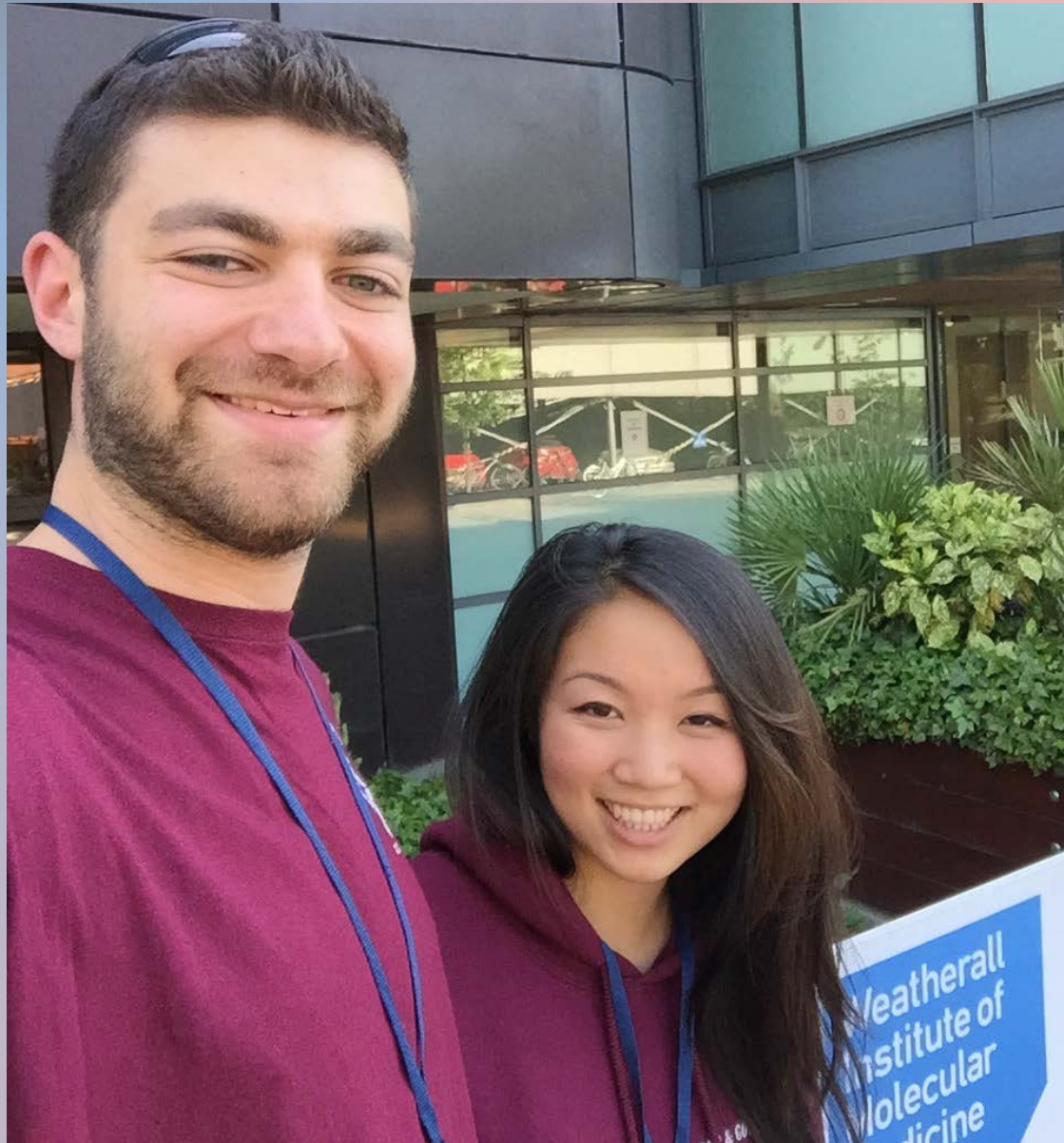




# Impact On My Career Plans

- Came in with an interest in pursuing an MD/PhD
- While I immensely enjoyed my time at the WIMM it taught me that I did not have an interest in pursuing a PhD in molecular medicine or biology
  - Learned through the work itself and work routine
  - Learned from speaking with current PhD students

# Shirley (IIP Intern) and Me



# Concluding Remarks

- Most valuable insights gained through this experience not about scientific accomplishment per se
  1. Learned many methods of science that are good to know and useful to understand new research literature
  2. Learned that I don't want to do a PhD, but that I still have an interest in the content of the research



With gratitude to IIP, Princeton, the  
Weatherall Institute, and Dr. De  
Bruijn:

**Thank You!**