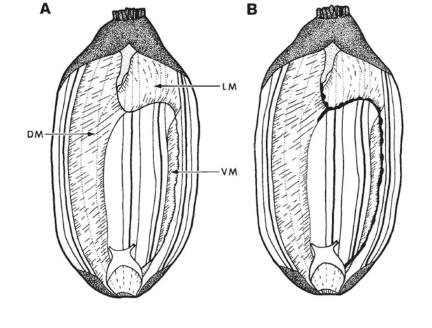
An immunohistochemical approach to *H. glaberrima* intestinal mesentery structure

Sonya J. Malavez-Cajigas, Christian J. Nieves-Ríos, Samuel A. Álvarez-Falcón & José E. García-Arrarás



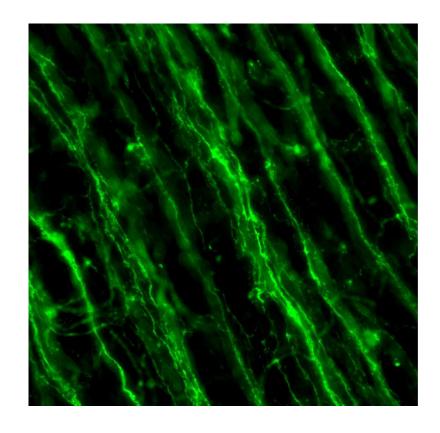
Mesentery

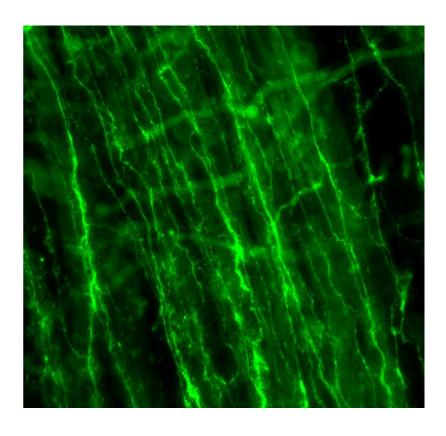
- Maintains organs in place
- Mesothelium and connective tissue



• Very important for intestine regeneration

Previous work





Objective

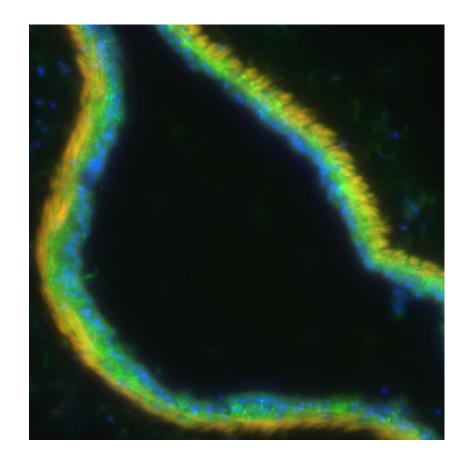
Establish the location and arrangement of the different tissue layers and nerve plexus in the intestinal mesentery.

Method

Tissue Immunohisto Tissue was containing Animals were chemistry sectioned in collected and large intestine cryostat was sacrificed. mesentery was performed. (20µm). obtained.

Antibodies and markers

- Meso I- mesothelium
- Phalloidin- muscle
- RN1- nerve
- GFS- nerve subpopulation
- Collagen (IBA2)- basal lamina
- DAPI- nuclei



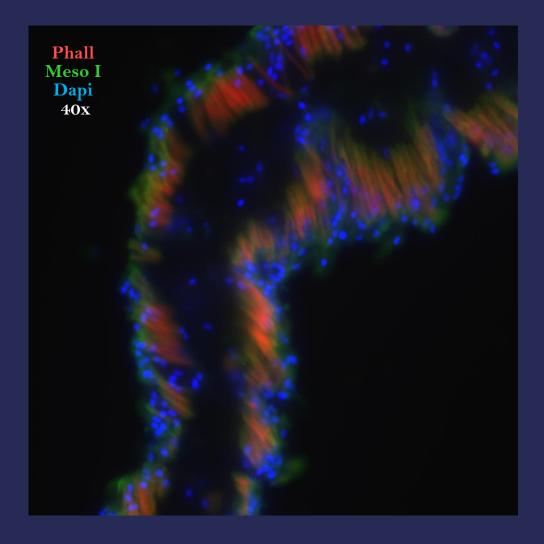
Double labeling

Meso I RN1 IBA2 IBA2 Phalloidin Phalloidin GFS

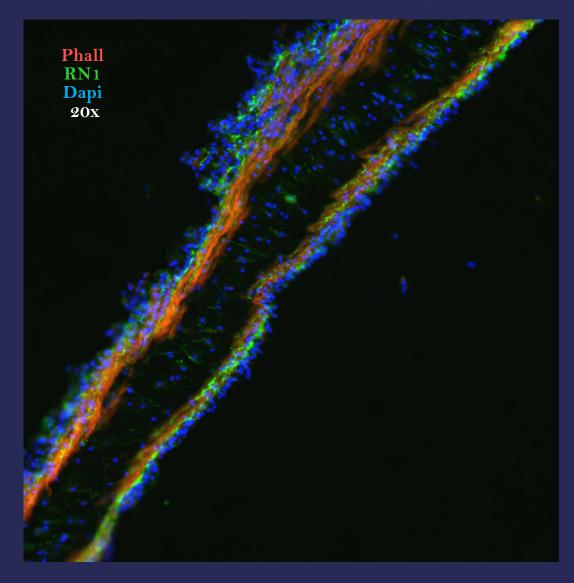
Results

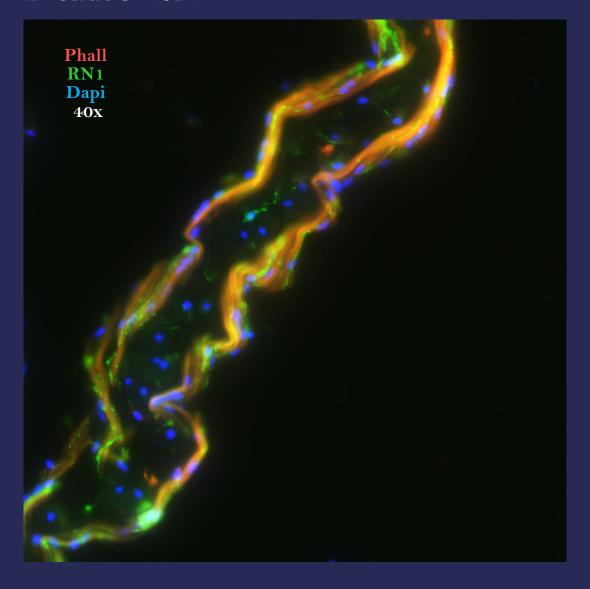
Meso I + Phalloidin



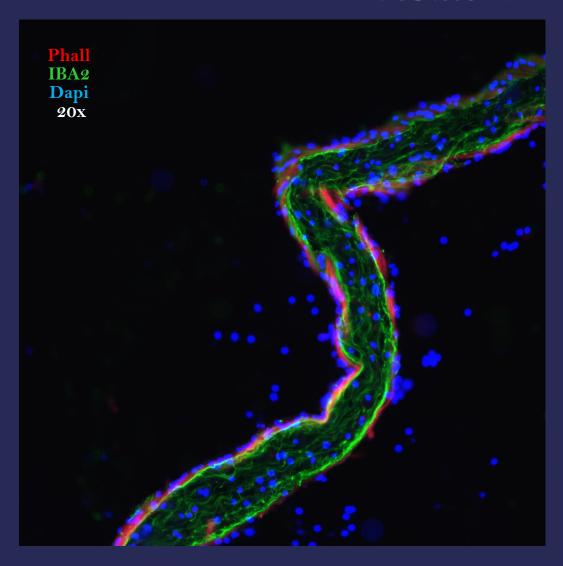


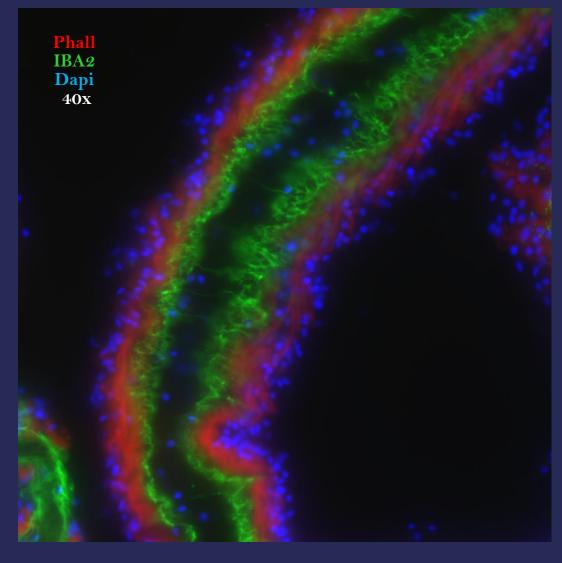
RN1 + Phalloidin



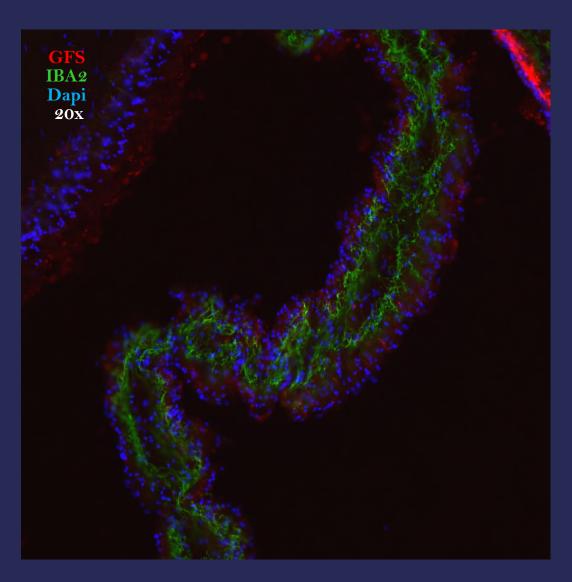


IBA 2 + Phalloidin



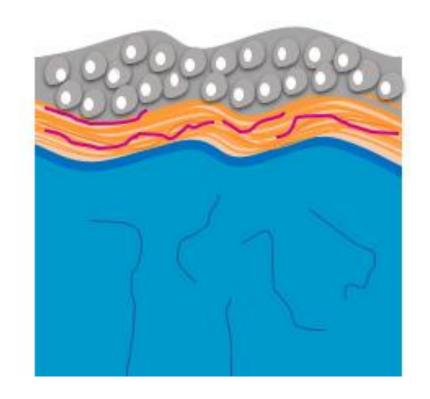


IBA2 + GFS



Conclusions

The intestinal mesentery has the following tissue arrangement:



Celomic epithelium

Muscle

Basal lamina

Nervous tissue

Connective tissue

Acknowledgements

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