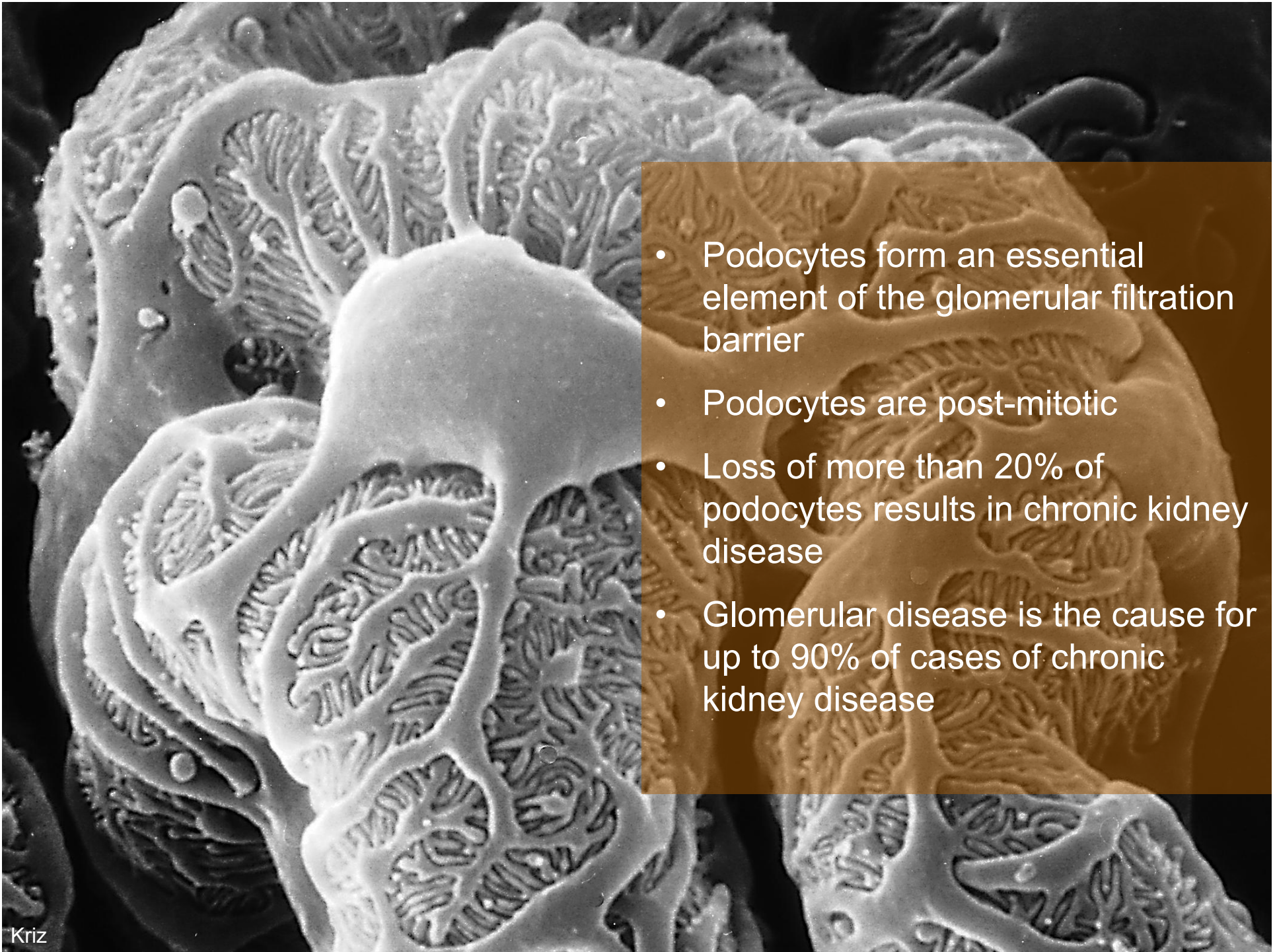


Karlhans Endlich

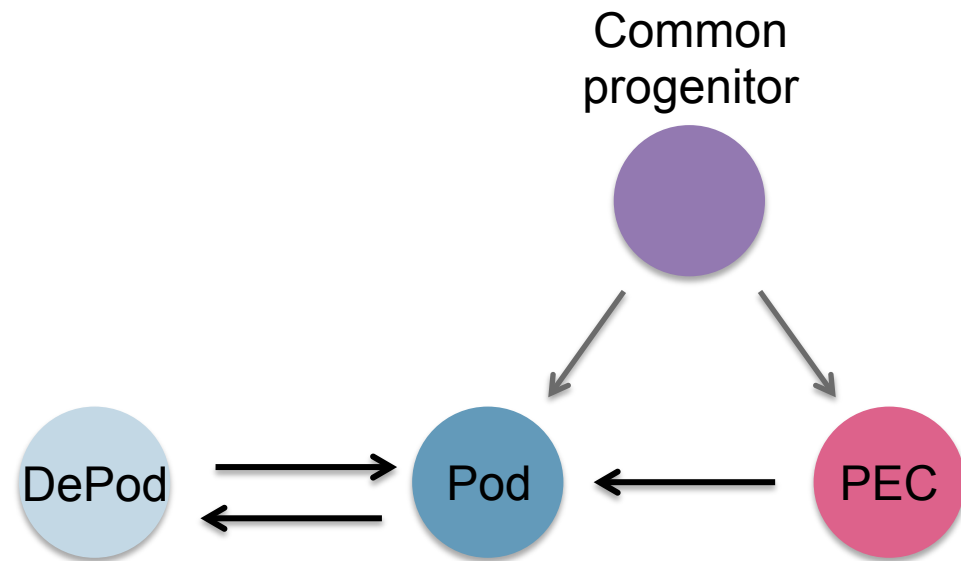
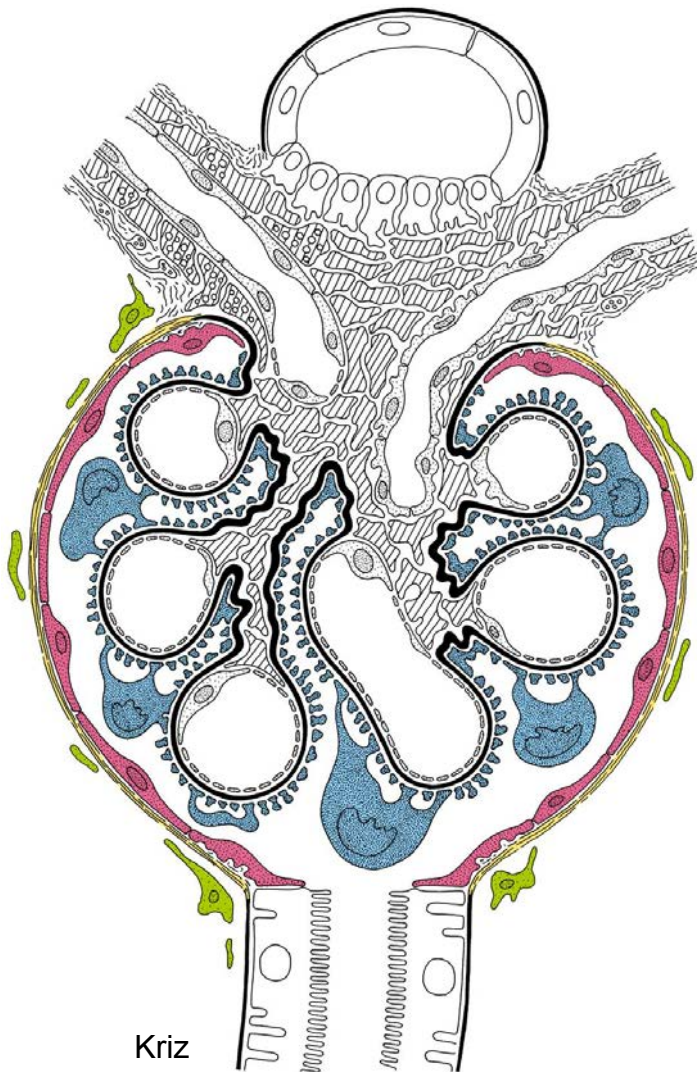
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- Podocytes form an essential element of the glomerular filtration barrier
- Podocytes are post-mitotic
- Loss of more than 20% of podocytes results in chronic kidney disease
- Glomerular disease is the cause for up to 90% of cases of chronic kidney disease

# Podocyte (De-)Differentiation

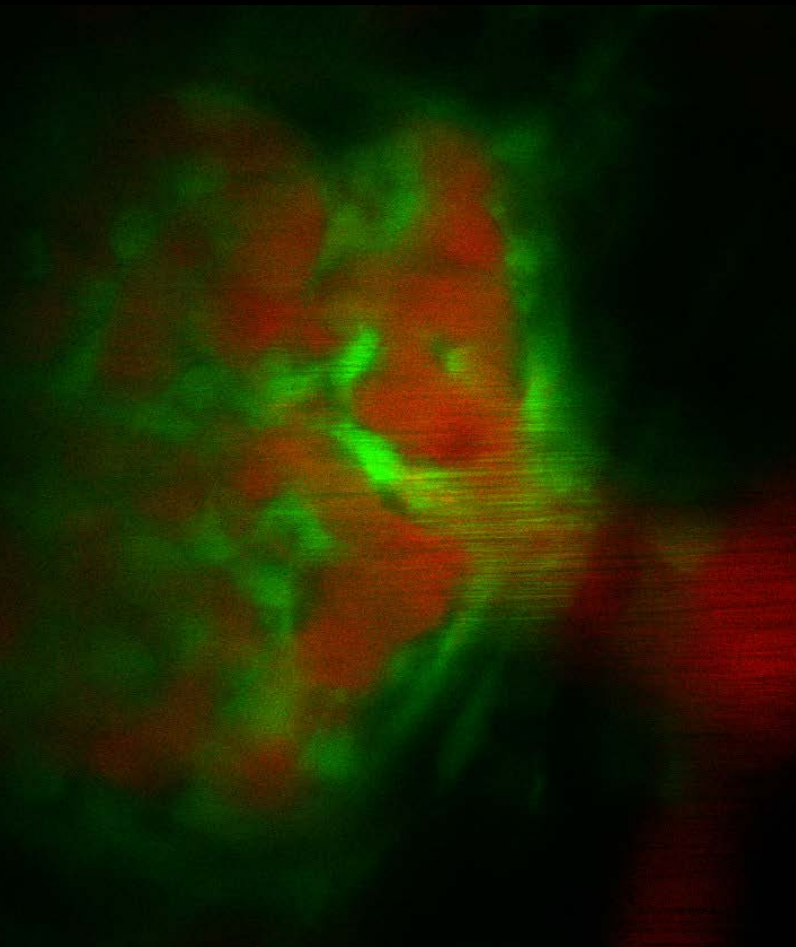


# Intravital Imaging of the Zebrafish Glomerulus by Two-Photon Microscopy

wt1a::EGFP/casper

5 dpf, embedded in agarose,  
tricaine anesthesia

z-stack **GFP** **Qdots**



# Time Lapse Imaging of Podocytes and Processes

5 dpf  
GFP  
Qdots

0..13 min  
(10 frames per min)

0..58 s  
(5 frames per s)

