Imaging alcohol-preserved Arachnids using a Visionary Digital System

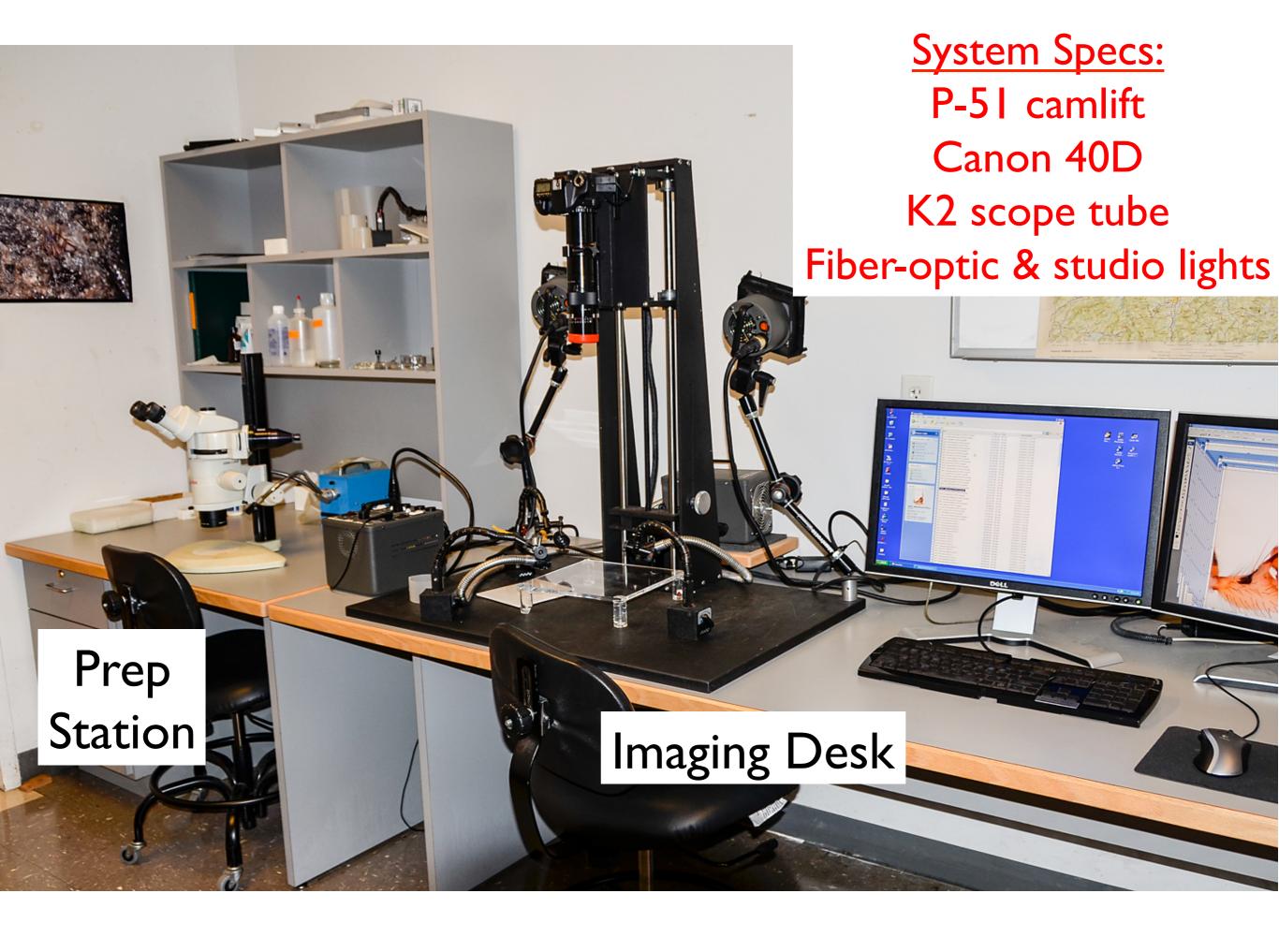


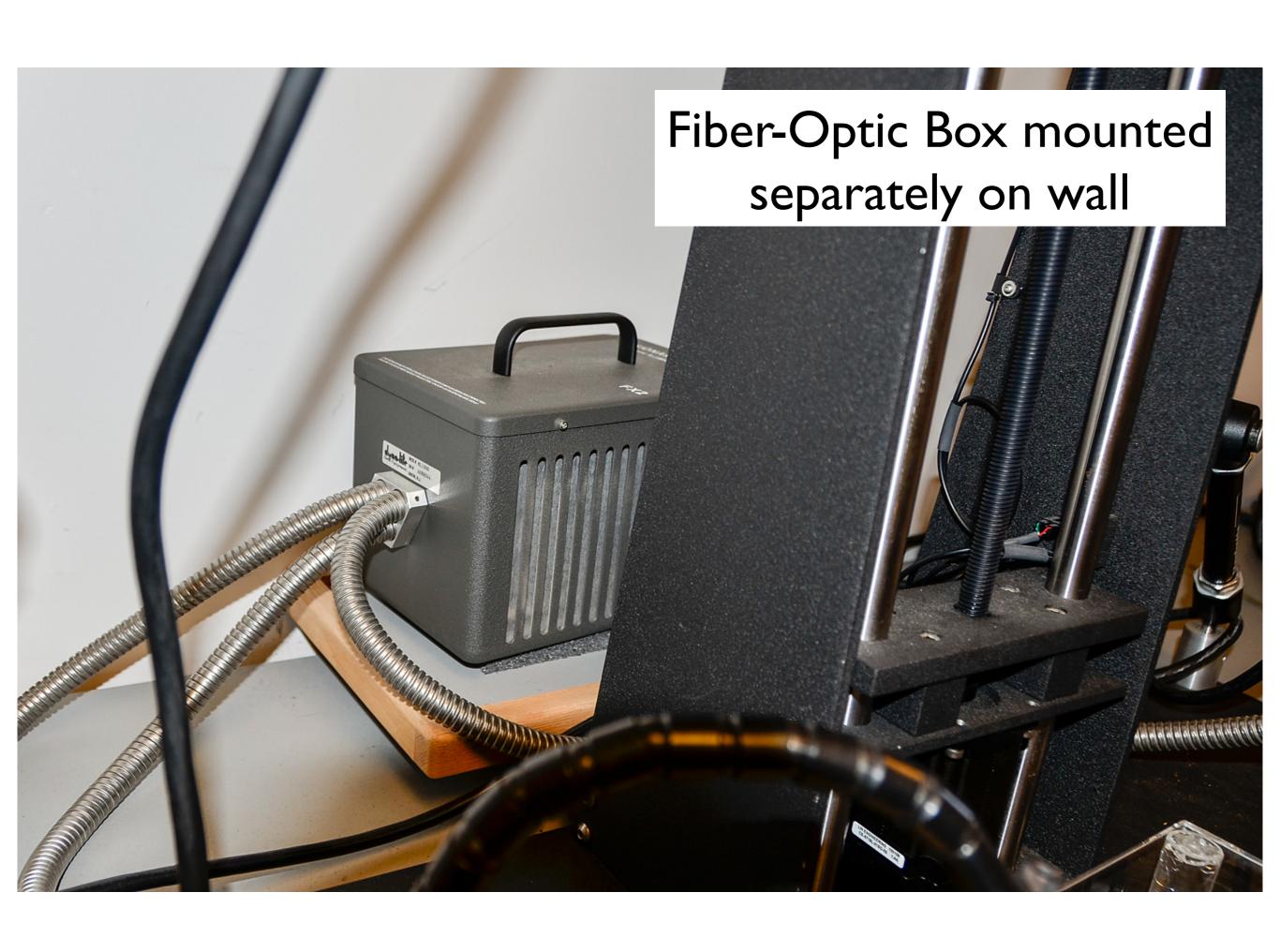
Marshal Hedin, San Diego State University

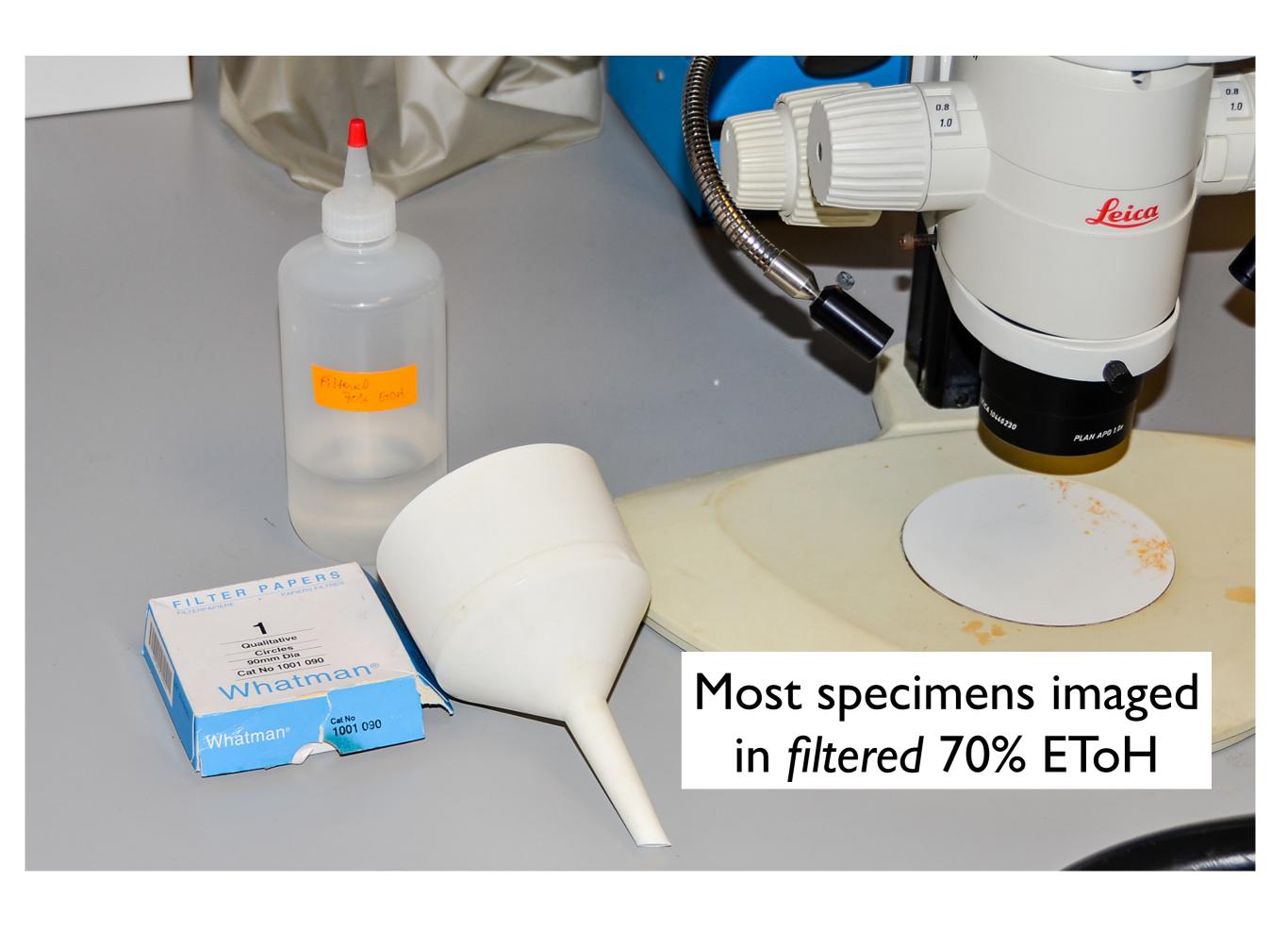
Photodocumenting voucher specimens used in molecular phylogenetic analysis

Morphological images for taxonomic revisions

Morphological images for online identification tools, UG class projects



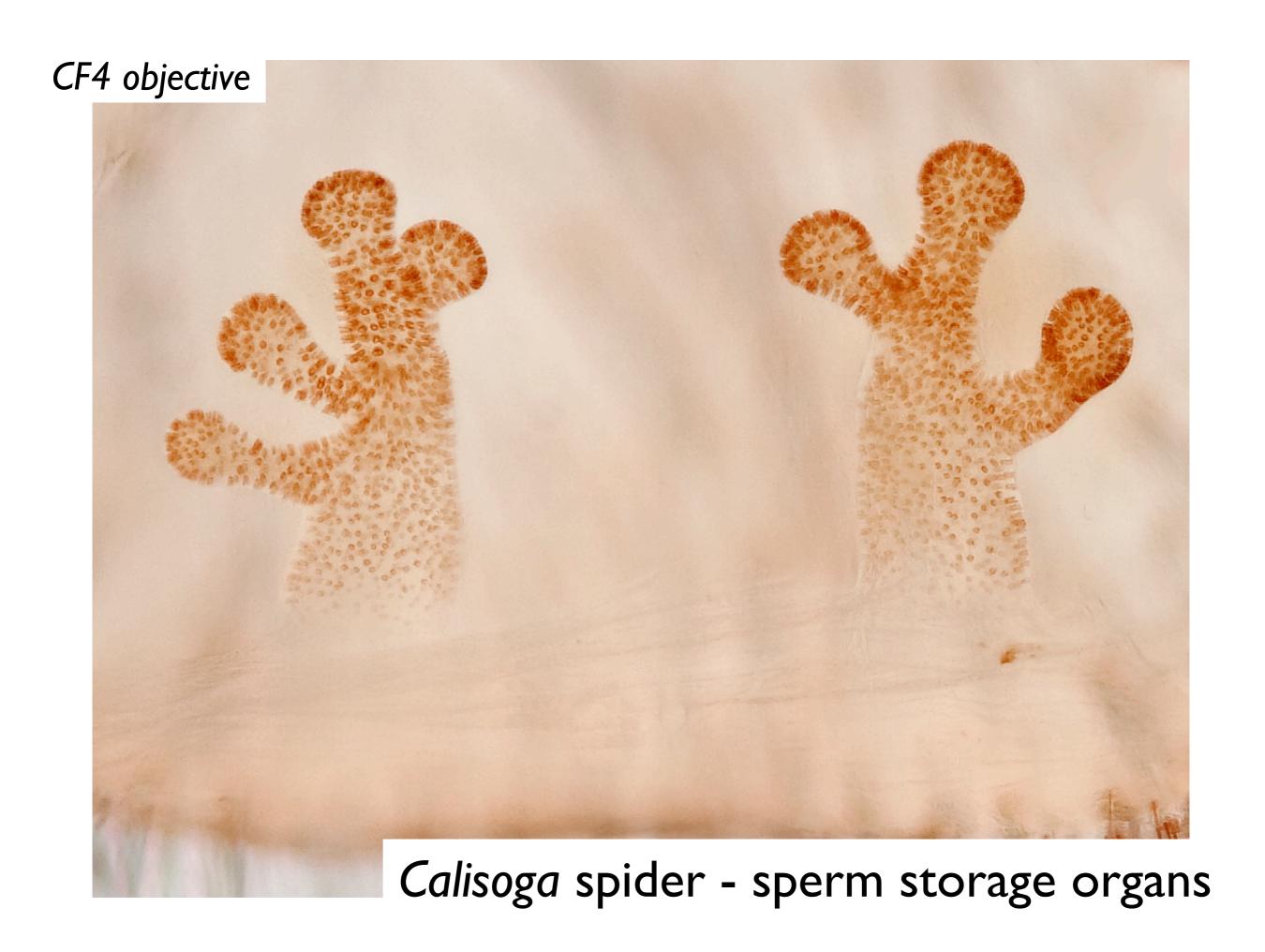


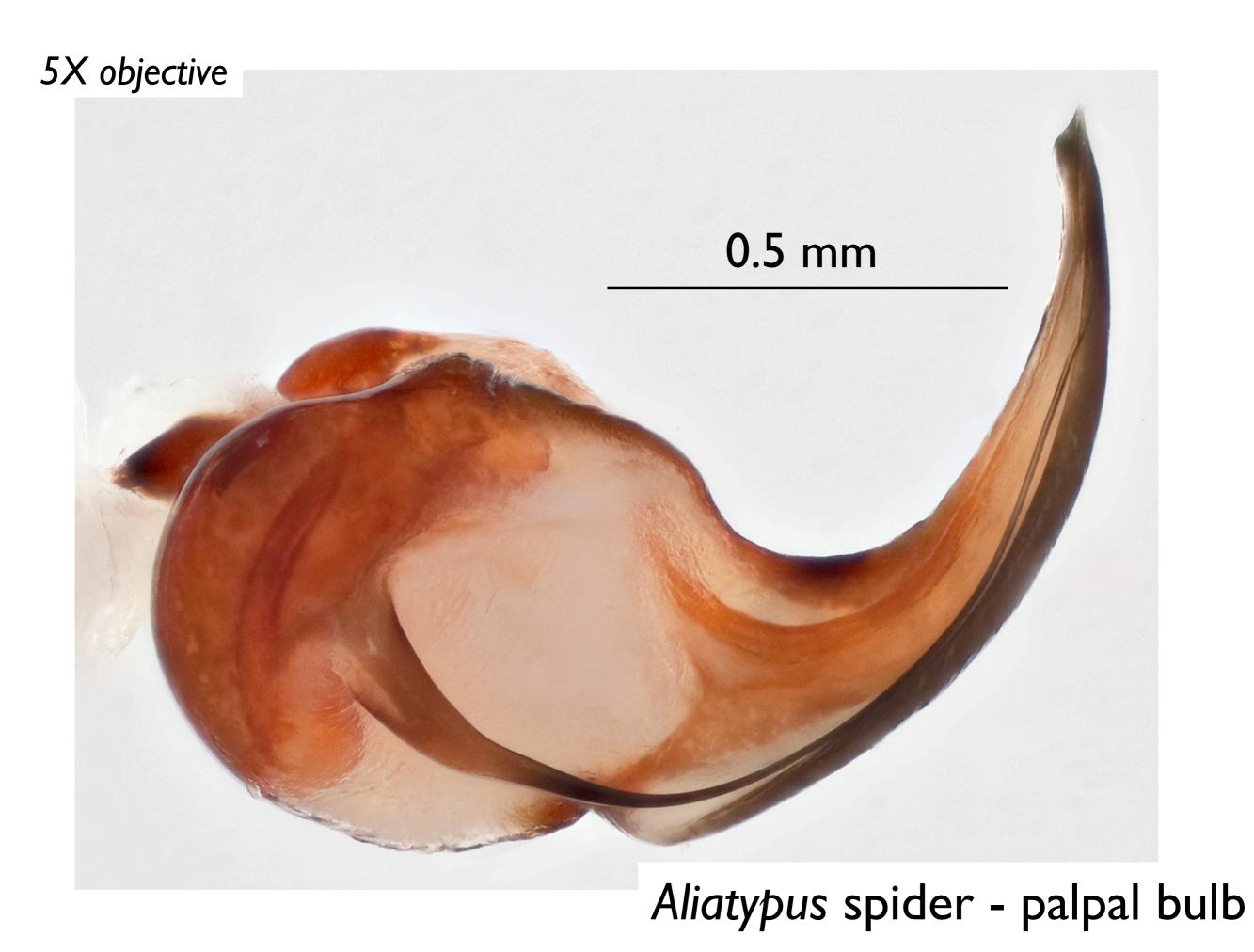


CF4 objective



Aliatypus spider - sperm storage organs

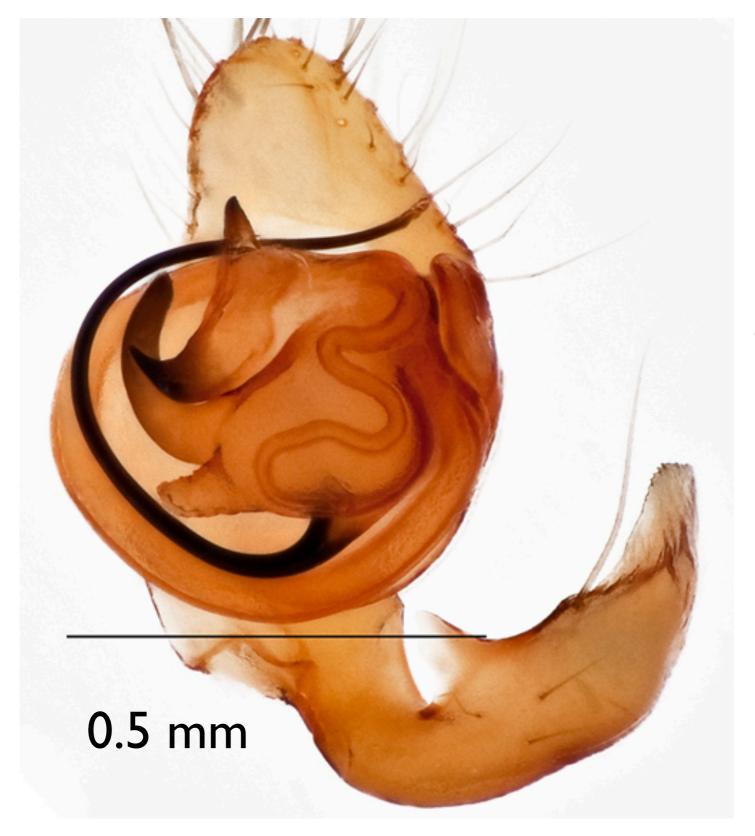




0.5 mm



Nesticus spider - epigynum



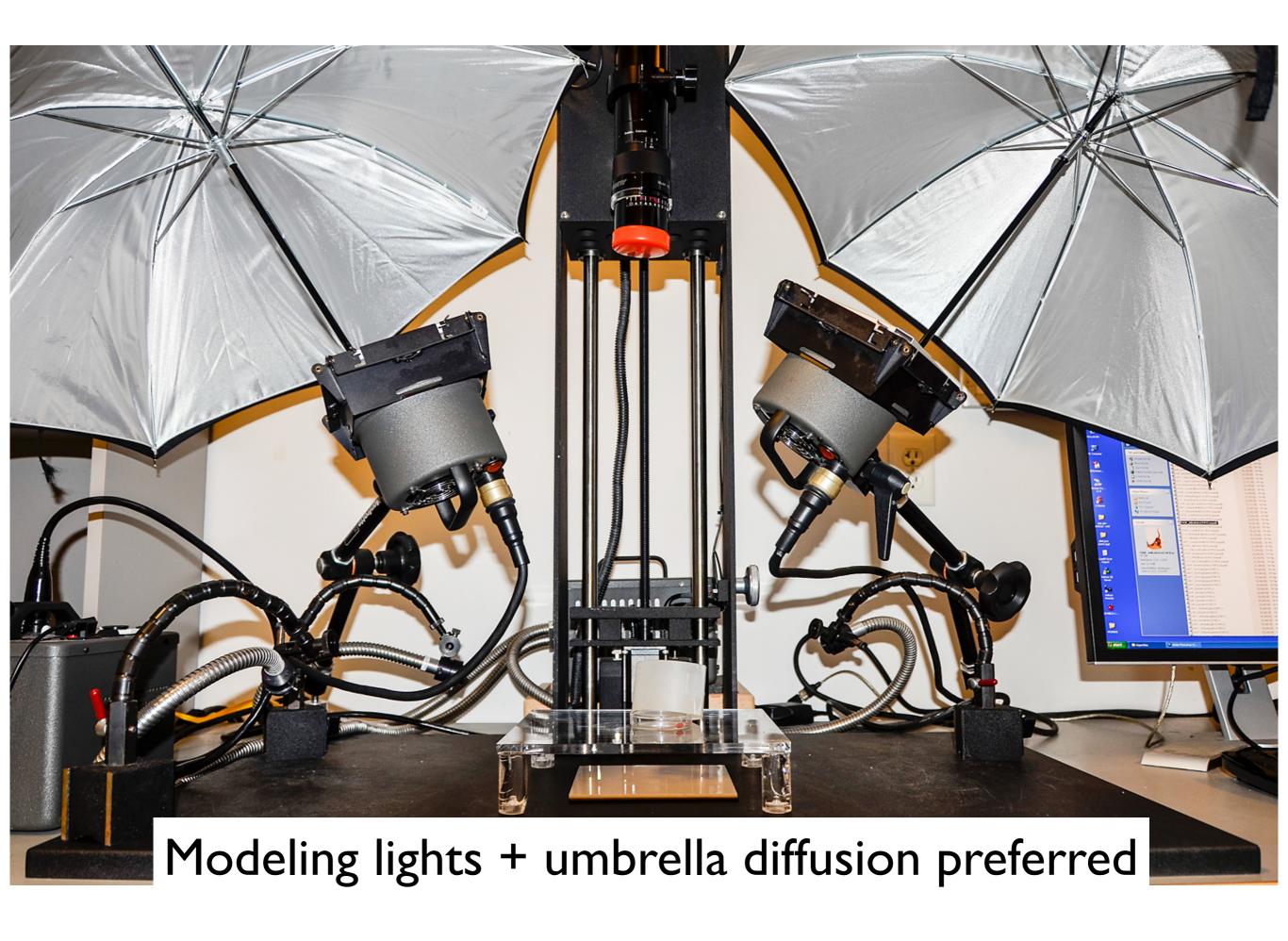
Nesticus spider - palp

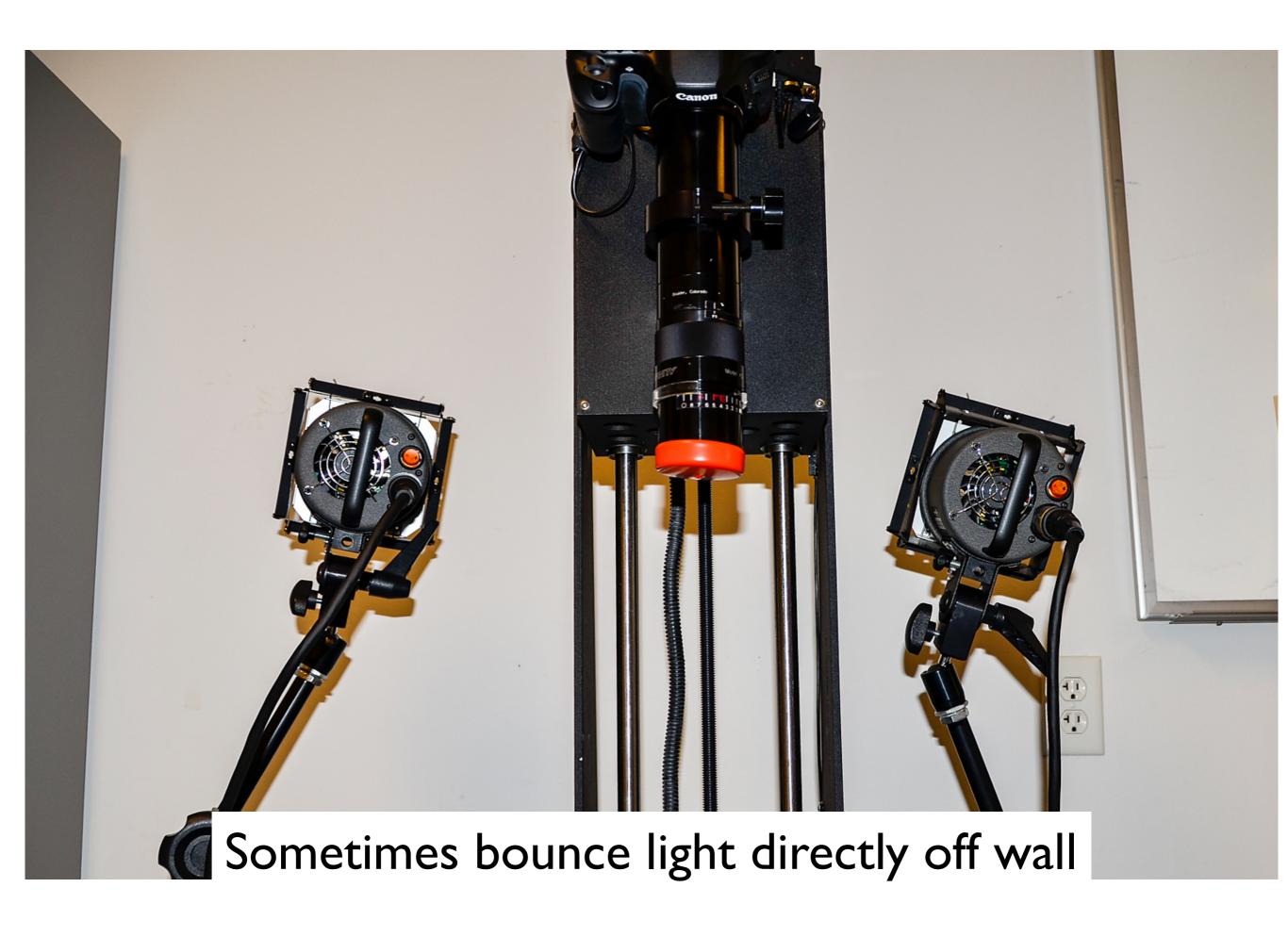


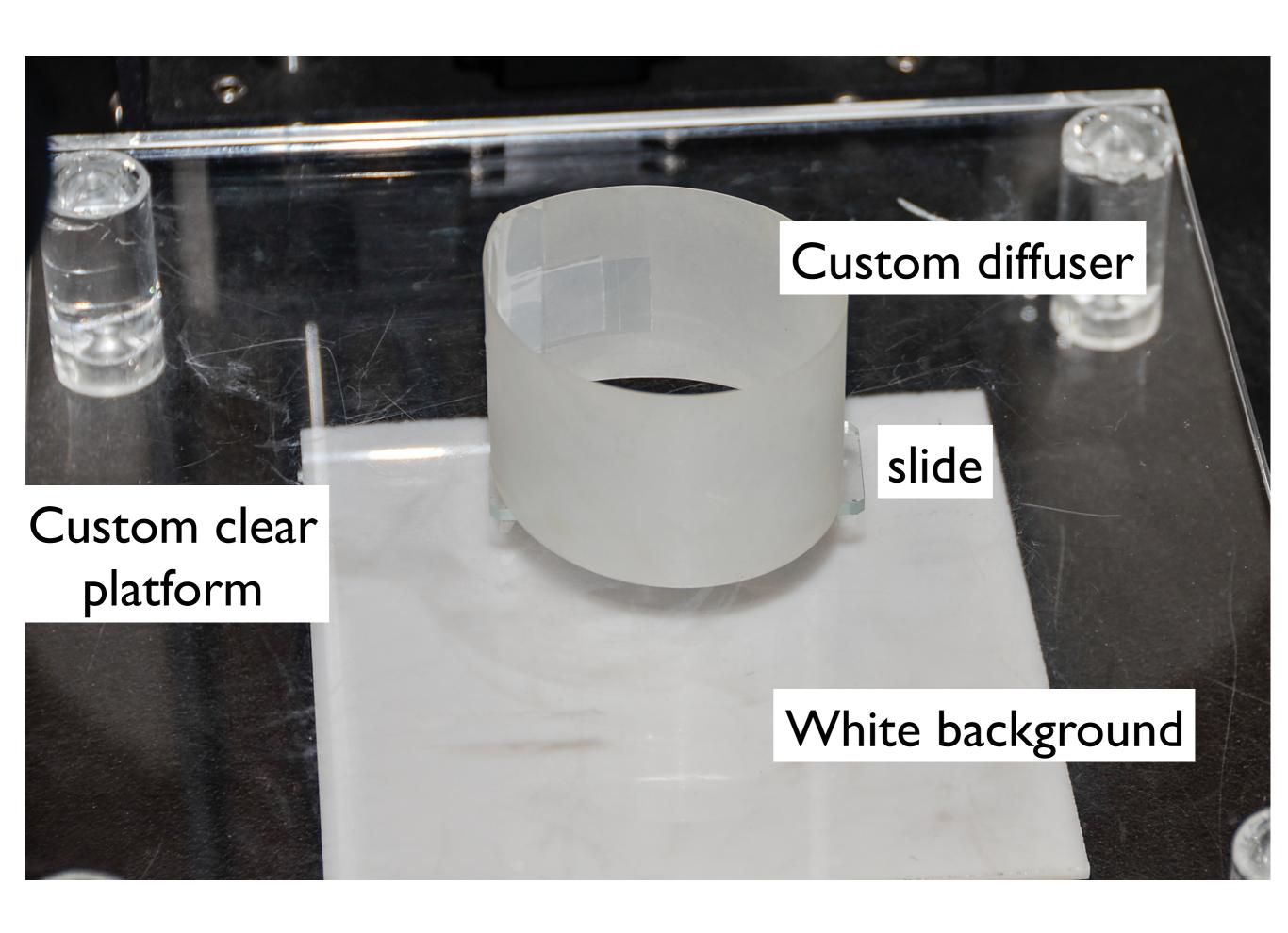
Left well – clearing fluid

Right well – KY + EToH

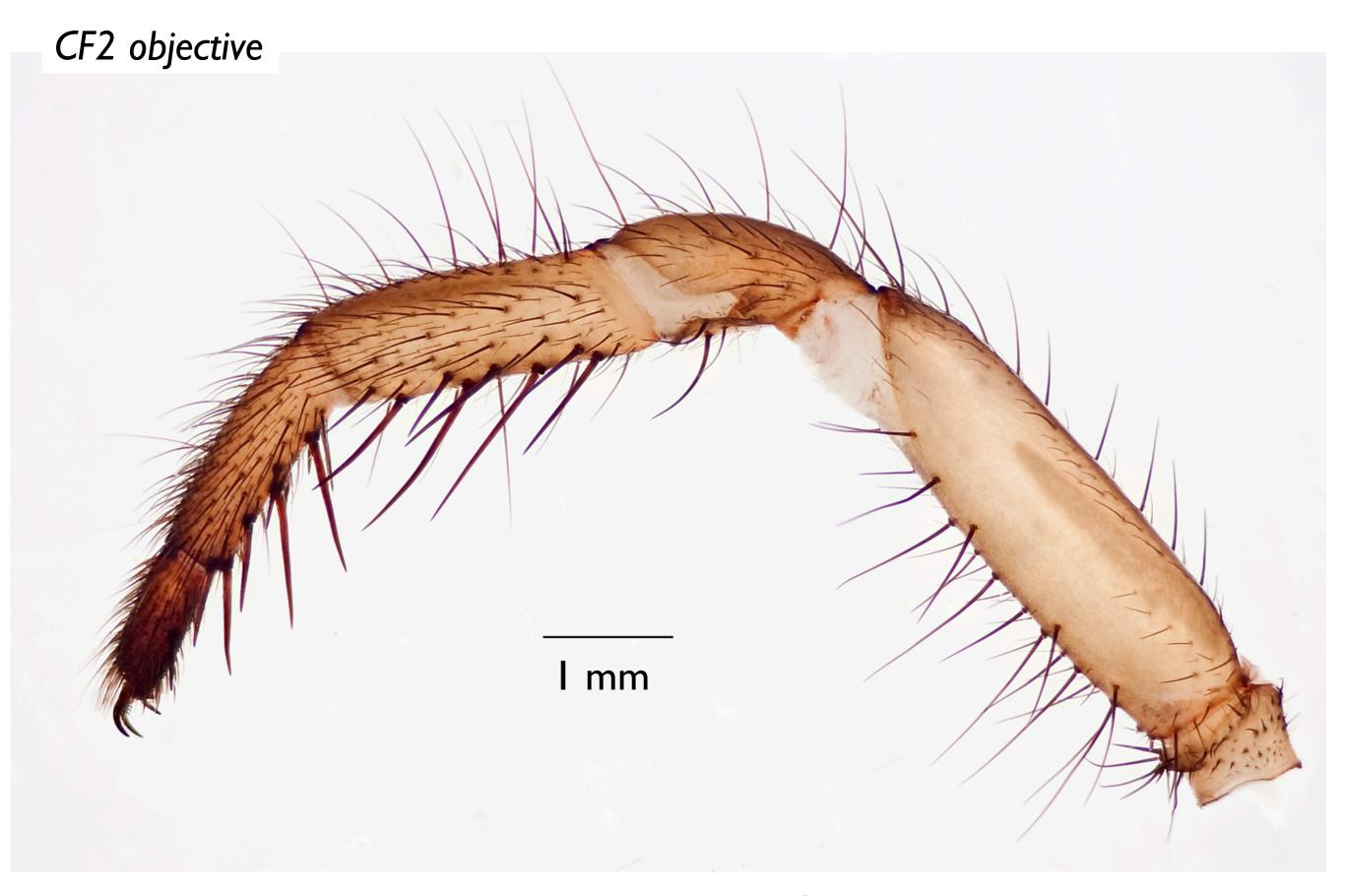






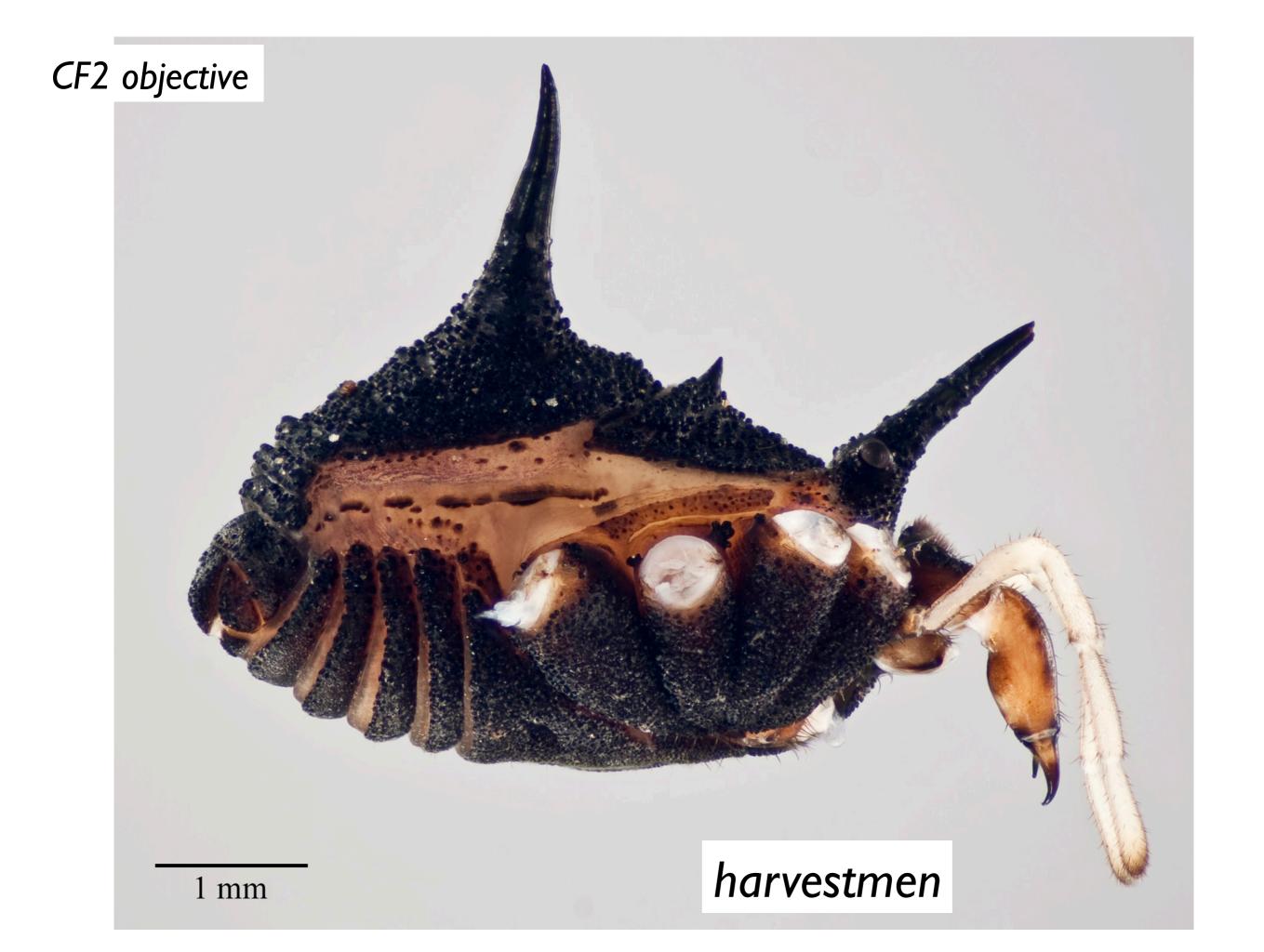


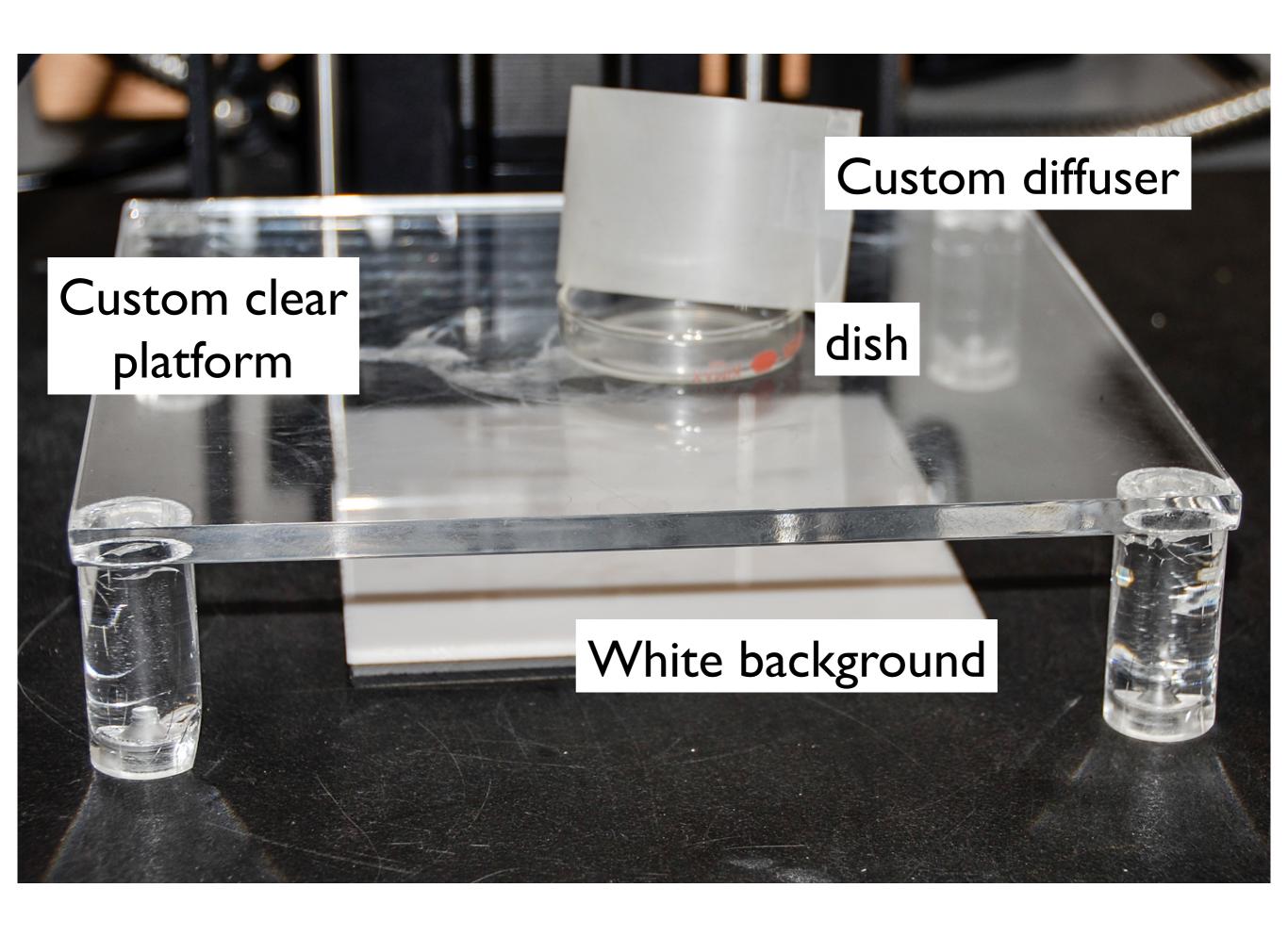




Aliatypus spider - leg







On the Computer:

Multiple image slices taken – automated using CAMLIFT software

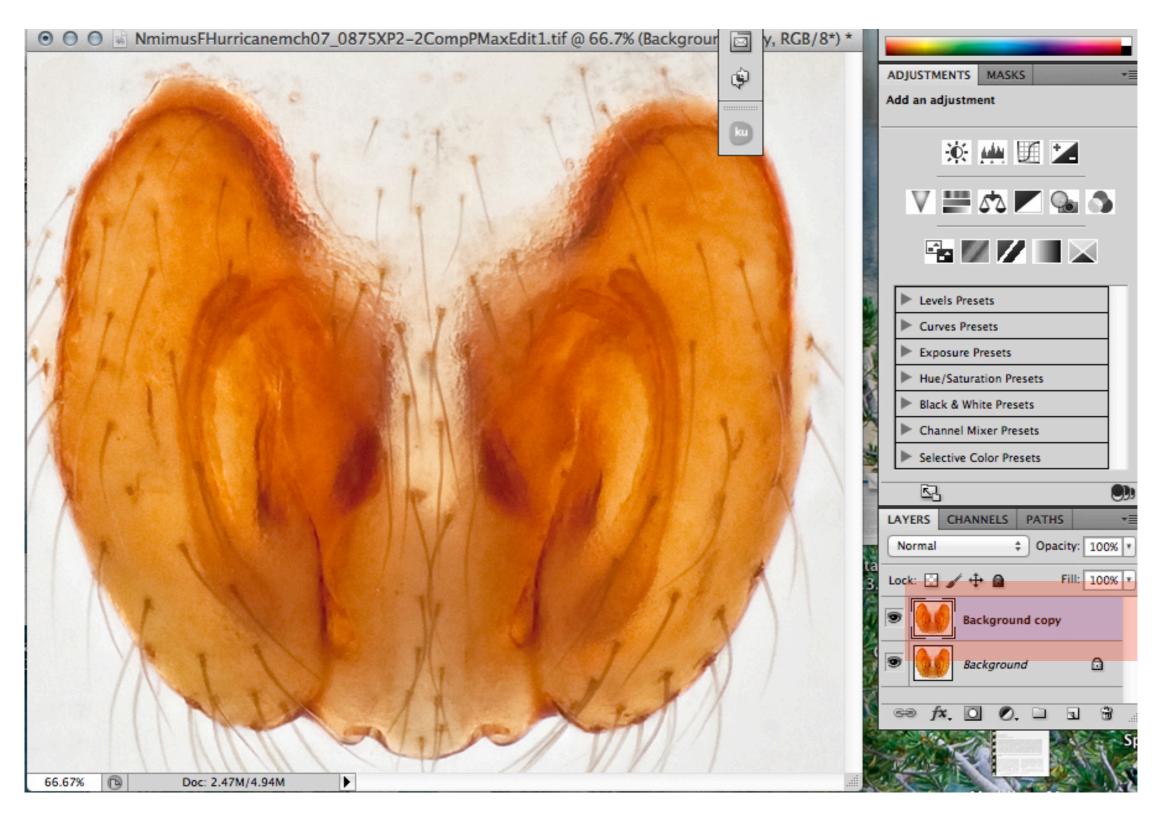
LR export to Zerene Stacker, PMAX algorithm used to make high DOF composite image, edited in PS

"standard" PS moves – levels, curves, SAT layers, clean-up, sharpen

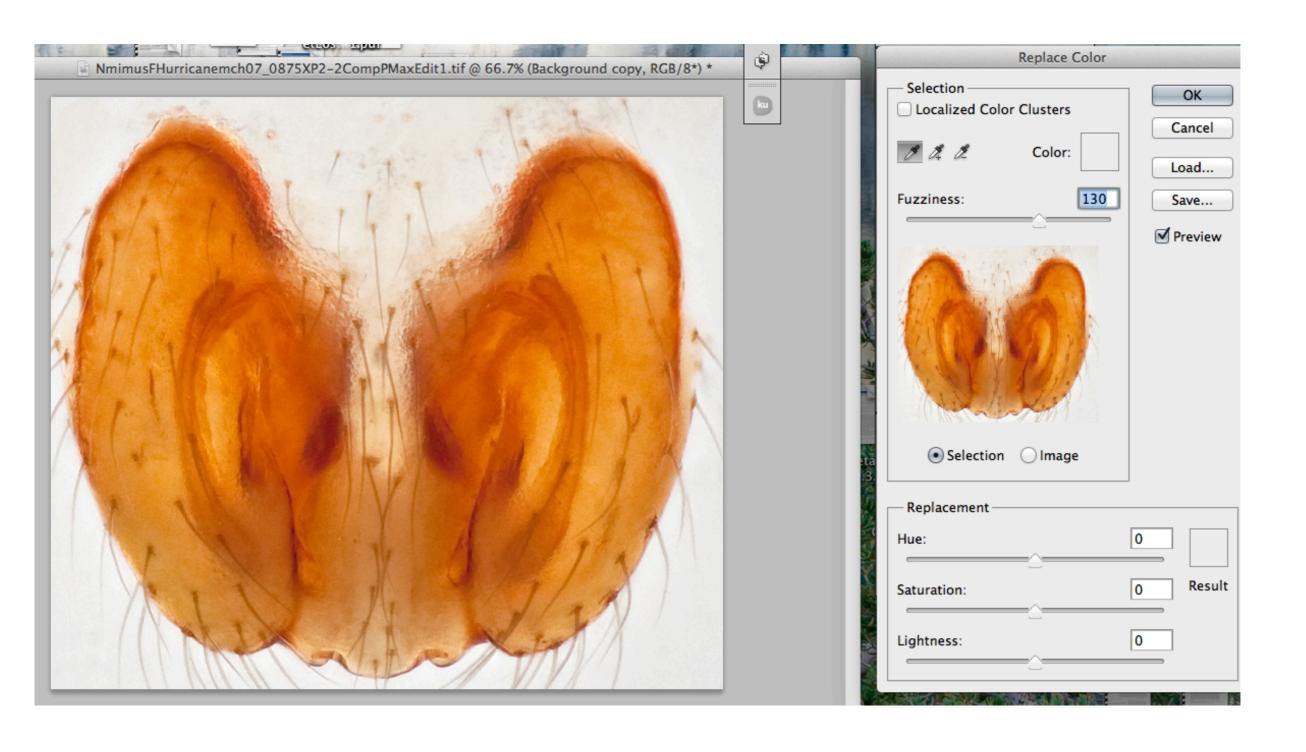
Adjusting Image Backgrounds in PS



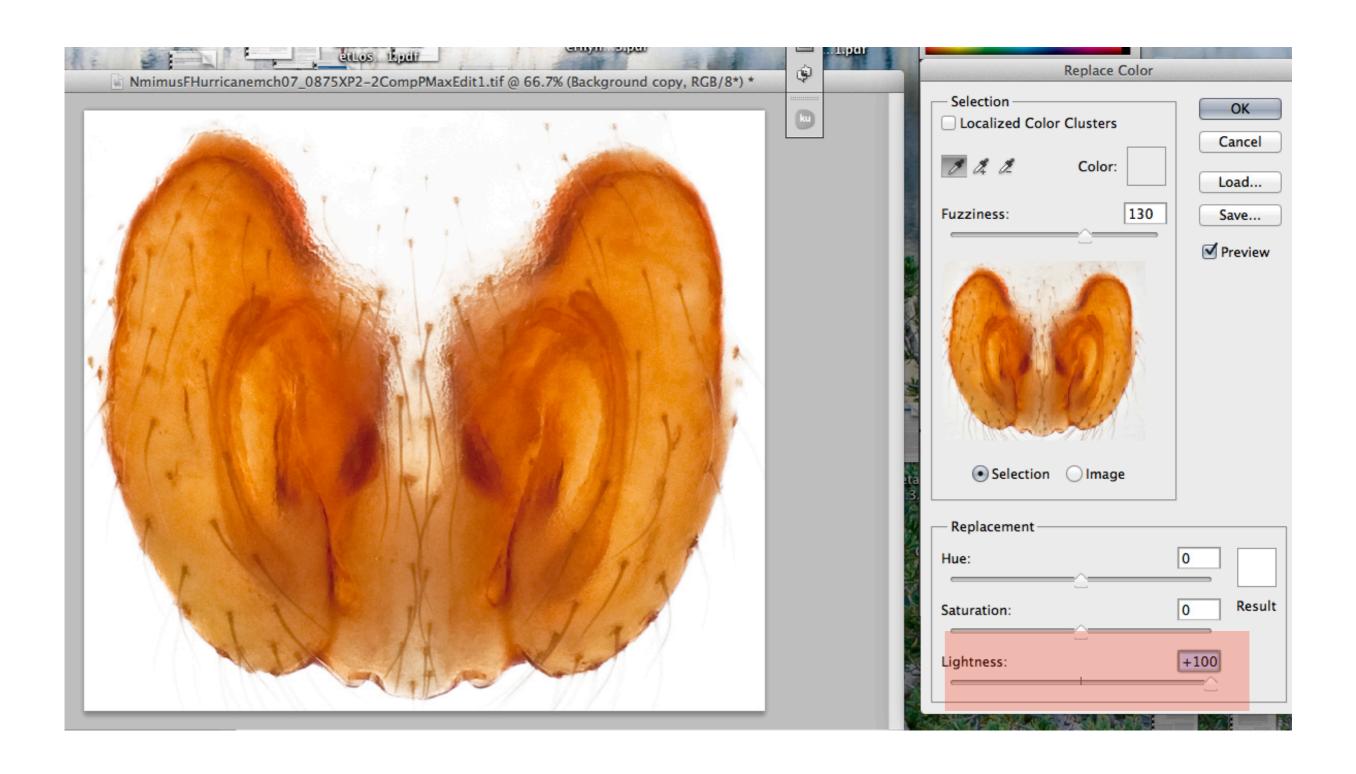
Start with flattened TIFF, make background layer



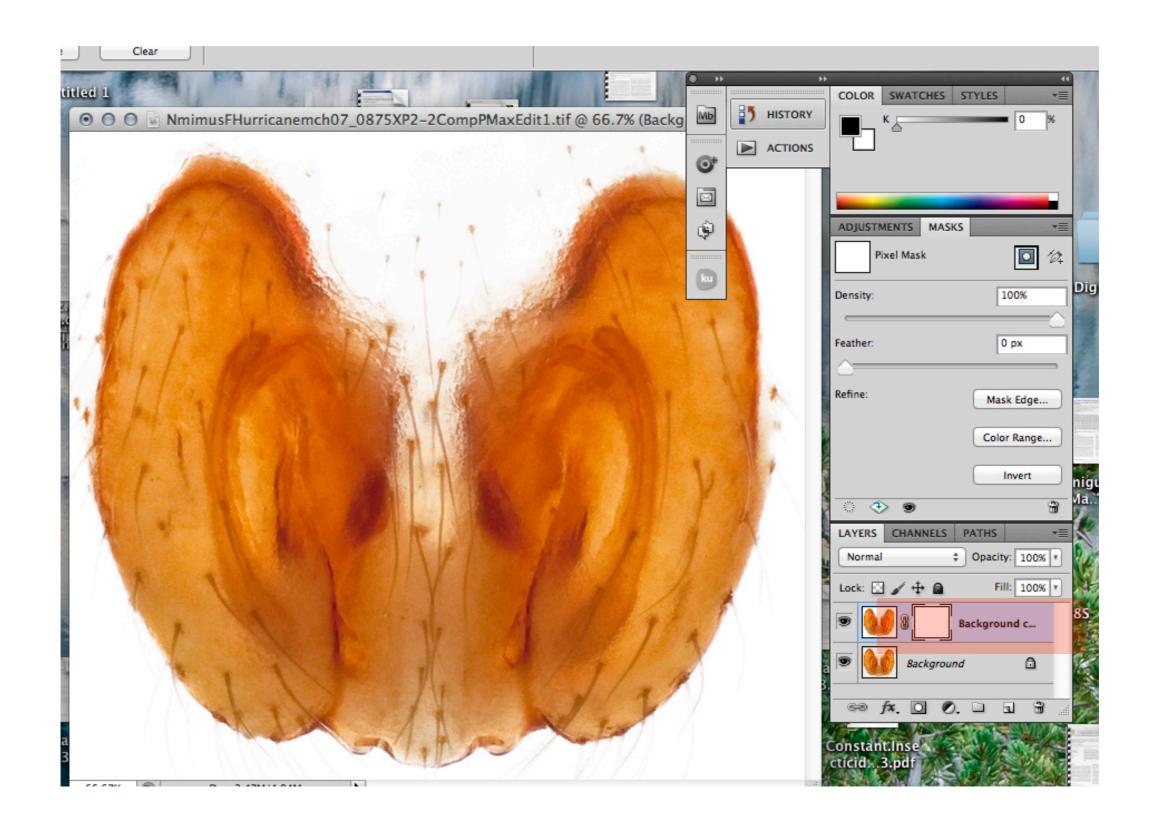
Replace Color Adjustment on BG layer



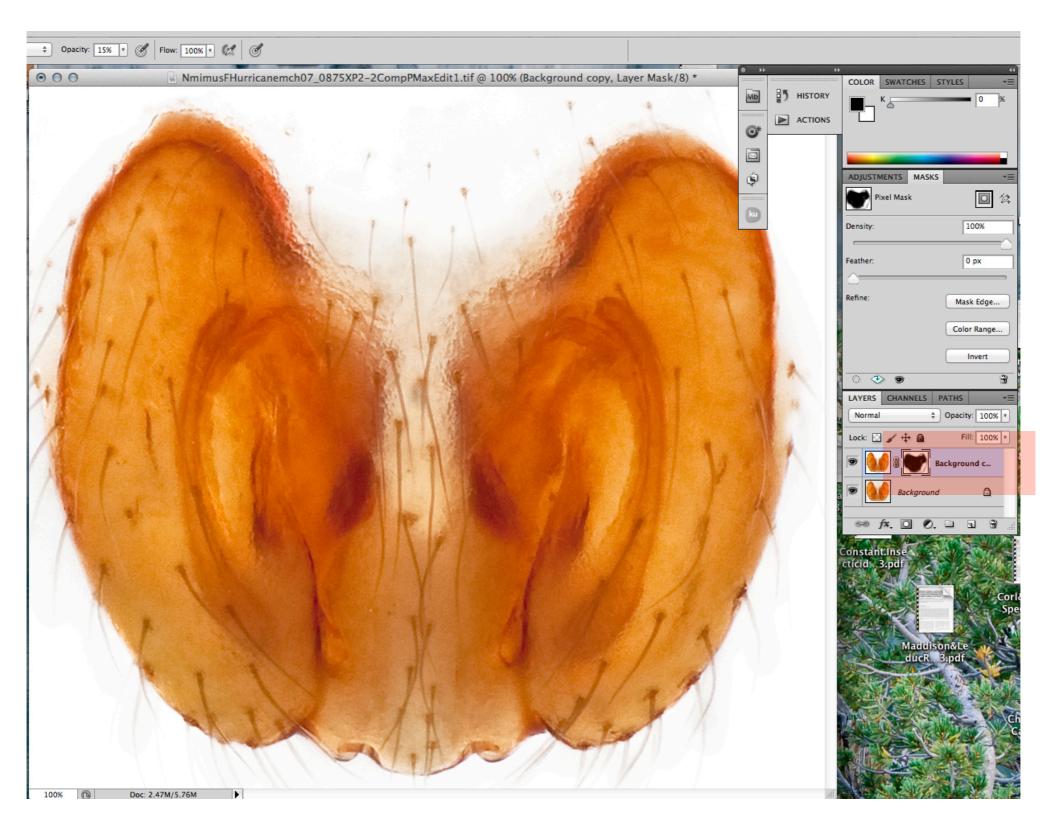
Lightness to 100%



Add Pixel Mask to lightened BG layer



"Paint" on mask, different opacities, adjusting brush size



Before

After

