Please join us for the 2nd annual

Yale Day of Instrumentation

January 24, 2020

More information and registration at: instrumentation.yale.edu

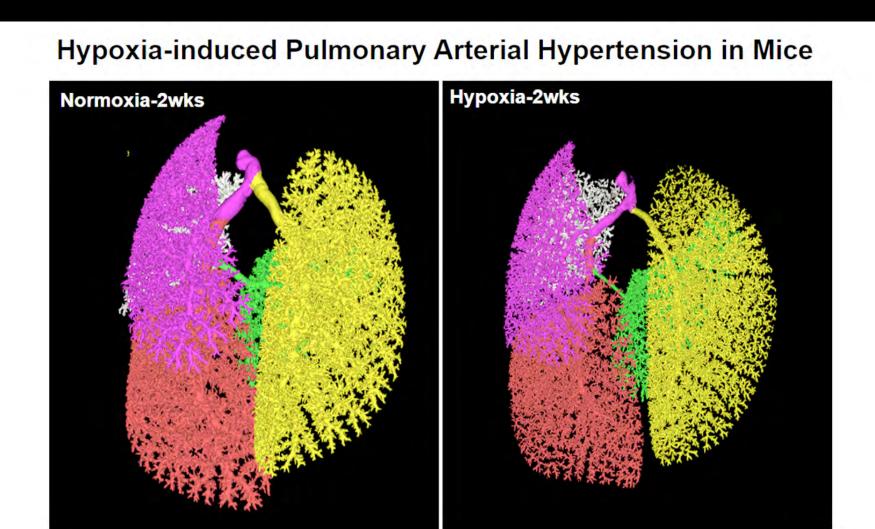
Yale

Submit to our photo and video contests at: instrumentation.yale.edu/contests

2020 Yale Day of Instrumentation Photography Contest



Sanah Bhimani makes some fixes to the Simons Observatory thermometry next to the Newburgh Lab dilution refrigerator. - *Lauren Saunders*



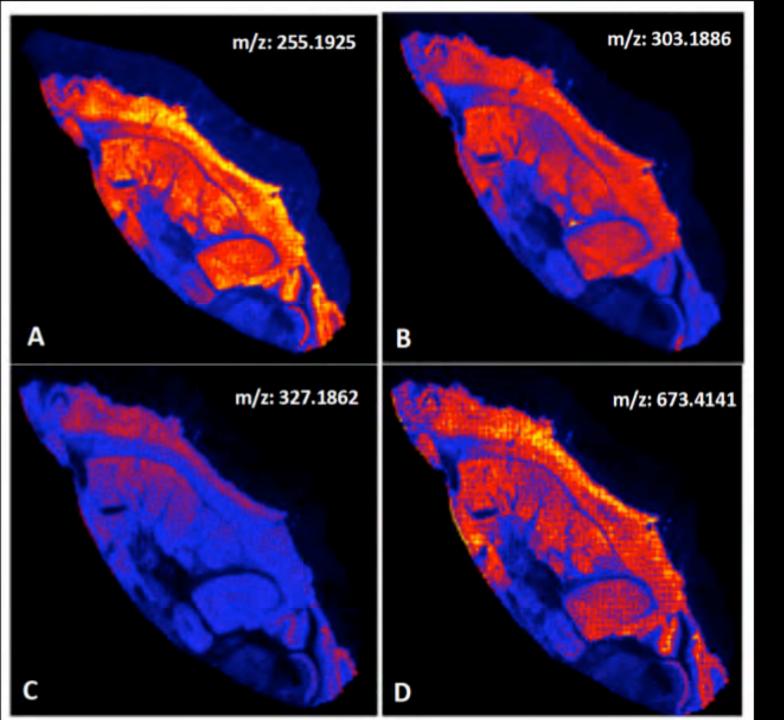
Long-term hypoxia can cause high blood pressure in the lung vasculature. High-resolution microCT pulmonary angiograms showed that both the large pulmonary artery remolded and the small pulmonary arterioles rarefactional in mice with 2 weeks-hypoxia. - Zhenwu Zhuang, Peiyu Chen, Edward Manning, Hanqiang Deng, Naftali Kaminski, Michael Simons



The metal organic framework (MOF) Zn2(TTFTB) looks like poker chips under SEM. - Sarah Ostresh



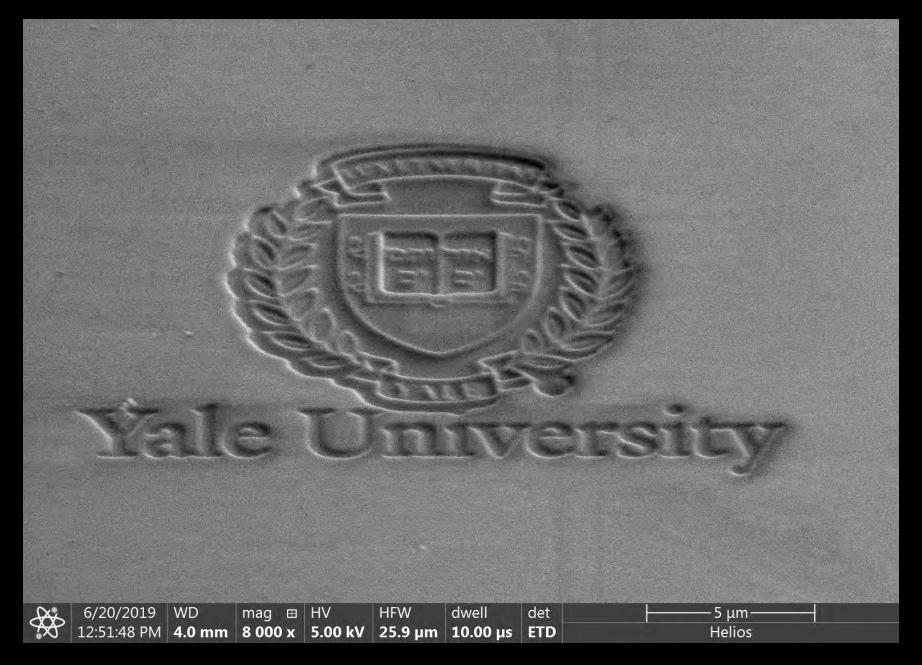
Dielectric films grown via a Plasma-Therm 790 plasma-enhanced chemical vapor deposition (PECVD) system are subsequently characterized with a J. A. Woollam M-2000 Ellipsometer. - Sean Rinehart



Tissue Imaging Mass Spectrometry with Matrix Assisted Laser Desorption Ionization: High resolution (50μm) images, illustrating the spatial distribution of intermediate (A-C) and higher molecular weight (D) lipids of the brain in an Aldh16a1(-/-) mouse. - Georgia Charkoftaki, MPharm, MSc, PhD



Dilution refrigerator with ruthenium oxide temperature sensors (constructed in Newburgh Lab waiting to be cooled down/calibrated to 100mK. - Sanah Bhimani



Micro-size Yale logo etched on a silicon chip by ion beam. - Lei Wang and Min Li, Yale MCC



Self portrait: Emily, covered in shavings of polyurethane spray foam, after meticulously sculpting a container intended to hold 500L of liquid nitrogen for noise temperature testing. – *Emily Kuhn*



Prof Laura Newburgh and Maile Harris (Pierson '22) calibrate drone system location at Owens Valley Radio Observatory. – *Emily Kuhn*



Prof. Laura Newburgh, Dr. Benjamin Saliwanchik, and Maile Harris (Pierson '22) tune scientific payload of Newburgh Lab Drone, before calibration flights at Owens Valley Radio Observatory.— *Emily Kuhn*



Annie Polish (TD '21) and Kabelo Kesebonye wade through the weeds outside of Wright Lab – Emily Kuhn



Evening maintenance of a Deep Synoptic Array dish, which the Yale drone calibration team characterized during recent test flights at Owens Valley Radio Observatory. – *Emily Kuhn*



The Mesa Antenna 1600-ft range at NASA's Jet Propulsion Laboratory overlooks Los Angeles, CA on a quiet October evening. On the mount is an antenna belonging to Prof Laura Newburgh's research group, which will be used for telescope calibration once its own characterization is complete. – *Emily Kuhn*



Newburgh drone flight at sunset over Bishop, CA. – *Emily Kuhn*



500 liters of liquid nitrogen, venting off in the Wright Laboratory vault space. – *Emily Kuhn*



Antenna testing facility at NASA JPL. – *Emily Kuhn*



from the canon. - Anonymous, YPMB '79



A user with PPE (Personal Protective Equipment) is cleaning the glass slides using Piranha solution at Yale West Campus Cleanroom. - Zhiliang Bai and Lei Wang