The importance of creating a controllable hypoxia environment for cell biology based applications

Creating a hypoxia environment for life science research applications is becoming an important consideration to replicate as close to invivo conditions. Many cells grow better in a low oxygen environment, especially stem cells and also cancer, cardiac and neuro cells exhibit different characteristics. Up till now the majority of live cell imaging has been done in standard environmental chambers which control temperature only. So to research into Hypoxia influencing factor the only option is to create a "lab in a box" where the cells are not exposed to an oxygen shock which can interfere with gene expression. BAKER Ruskinn design , manufacture and support pioneering workstations to perfectly control the O2, CO2, temperature and humidity.