

Baker Ruskinn

Hypoxia and Physioxy – cell cultivation in a regulated atmosphere



O₂ signalling

Physiological

Hypoxia in radiation

ROS inflammation

Oxidative stress



Stem cell

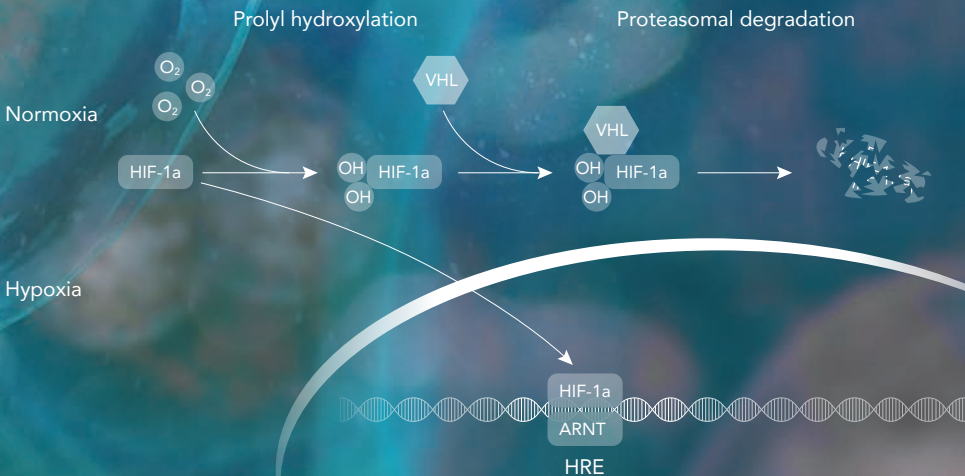
O₂ sensing

Cancer

Ageing

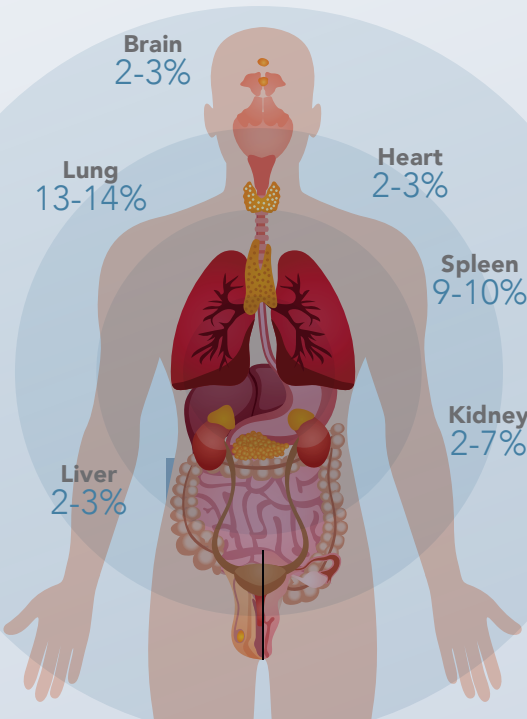
BAKER RUSKINN USERS WIN NOBEL PRIZE

The 2019 Nobel Prize in Physiology or Medicine 2019 was awarded jointly to William G. Kaelin Jr, Sir Peter J. Ratcliffe and Gregg L. Semenza for their discoveries of how cells sense and adapt to oxygen availability To make breakthroughs in science even the best scientists need tools to make history. For Sir Peter J. Ratcliffe and his team, one of the tools central to his research was provided by Baker Ruskinn.



Oxygen in cells - the right dosage

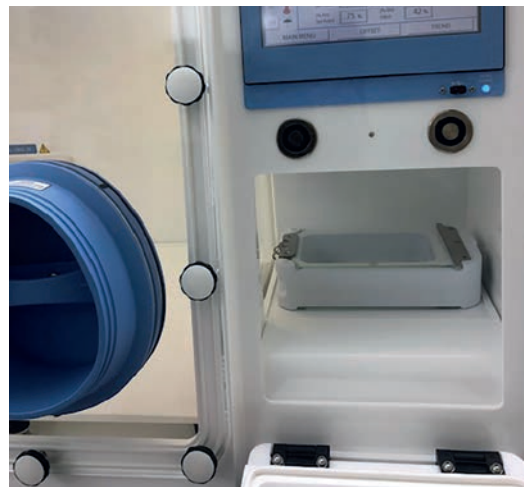
Baker Ruskinn's physoxia/hypoxia workstations combine the features of a workstation and an incubator and therefore function as a comprehensive lab in a box. Providing stable and user defined atmospheric conditions controlling oxygen, carbon dioxide, temperature and humidity they support your research under physiological conditions. The choice between different options and accessories enables you to construct a workstation that perfectly fits your needs and supports your cellular studies.



InvivoO₂® 300 Workstation

Small physoxic workchamber and animal hypoxic incubator

Designed to study even the most complex cell interactions under perfect hypoxic or anoxic conditions: The workstation provides accurate, stable, and user-defined oxygen, carbon dioxide, temperature and humidity control, creating the optimal environment for cell culture and translational research.





Invivo[®] 400/500 Workstation

Modern physoxic/hypoxic workchamber for research

Gives precise control over oxygen, carbon dioxide, temperature and humidity. The Invivo[®] provides physiological culture conditions for cells of all types in the low oxygen range in a predefined atmosphere. It is both an incubator and a sterile workbench of the latest design with new oxygen measurement technology.



Invivo[®] 1000 Workstation

Modern dual physoxic/hypoxic workchamber

Gives precise control over oxygen, carbon dioxide, temperature and humidity. The Invivo[®] provides physiological culture conditions for cells of all types in the low oxygen range in a predefined atmosphere. It is both an incubator and a sterile workbench of the latest design with new oxygen measurement technology.

The Invivo[®] Dual does not only provide doubled space but also allows you to operate two different atmospheric conditions, one for each chamber.





SCI-tive Workstation

Spacious physoxic/hypoxic workchamber in research with analytical devices

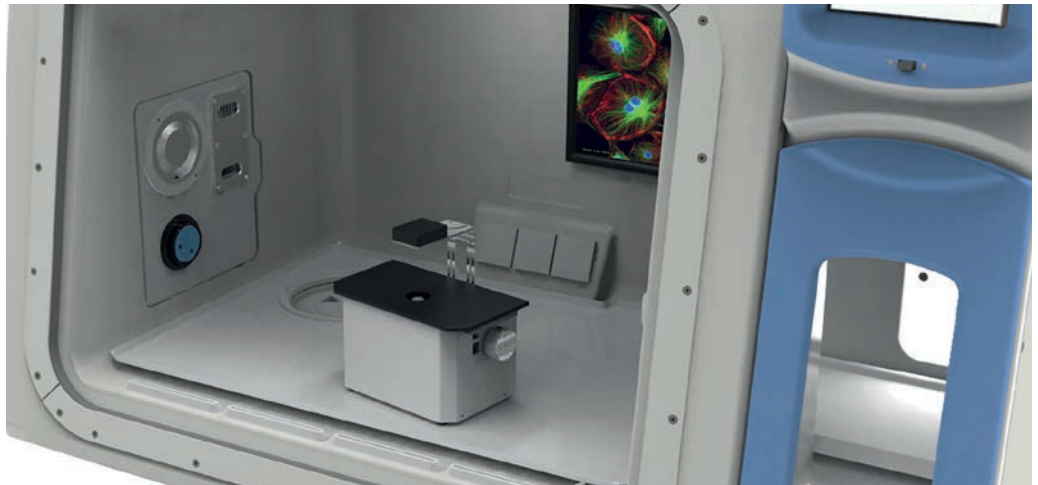
The SCI-tive was designed as a „Lab in a box“ to create in vitro conditions for a continuously stable, physoxic or hypoxic cell culture environment. This simulates the physiological conditions in the tissue in terms of oxygen and carbon dioxide content, temperature and pH very well. Cellular stress caused by fluctuations is prevented.



Dual Symmetrical / Asymmetrical Workstation

Two or three big physoxic/hypoxic workchambers for ambitious project development

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Hypoxic animal studies

The VeLO_2x box complements Baker Ruskinns physoxic workstation portfolio and is a great asset for your studies on hypoxia in animal models.

Shipment under hypoxic conditions

In addition to their physoxic workstations, Baker Ruskin provides transportable options to maintain the atmospheric conditions of your cell culture for short or medium term transportation.



VeLO₂x Animal

Modeling chamber

The VeLO_2x system is an optimal tool for all short-term animal experiments about hypoxia or that require a rapid change in oxygen concentration. Available as 2 cage (66 l) or 1 cage (31 l) option.



OxyGenie

Accessible mobile oxygen control

The OxyGenie is a culture system allowing for the transport of cells under hypoxic conditions. This portable system is equipped with a continuous hypoxic environment for short term physiological oxygen and temperature studies. It is ideal for conducting high resolution microscopy or irradiation under physiological oxygen conditions.

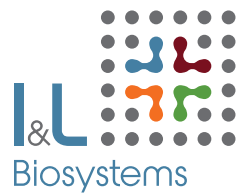


CondoCell®

Portable containment control

CondoCell® is an isolation box for sensitive cell cultures in T-flasks, Petri dishes or multiwell plates. It captures the environment of any incubator or physoxic workstation making continuous, uninterrupted culture possible.





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