



# Welcome to **BioCiTi Labs**

A platform for biotech entrepreneurs to turn ideas into creative solutions

**An industry where innovation is paramount, biotechnology attracts many entrepreneurs whose ideas could change the world. Entrepreneurs with foresight, and simple yet creative solutions to everyday problems. Are you that entrepreneur? Do you have a big biotech idea that will significantly contribute to food security, improved healthcare, job creation, poverty alleviation, or other everyday problems? Do you need the means to test out your big idea while maintaining creative control?**

**Welcome to BioCiTi, a platform for biotech entrepreneurs to turn ideas into creative solutions. With affordable world-standard facilities at your disposal, develop your idea in a shared space with other creative minds. Our lab and co-working space brings together entrepreneurs and allows ideas for a new product or service to be tested with plenty of peer support before taking it to market.**



## Lab Provisions and Equipment

We aim to meet the needs of the incubator's startup companies by providing shared laboratory equipment and co-working office space.

*Below are some of the laboratory equipment we offer and its features:*

### 1. Applied Biosystems QuantStudio 3™ Real-Time PCR

The QuantStudio 3 Real-Time PCR System is a state-of-the-art interactive qPCR system that is easy to use. This instrument offers the high-performance analysis expected from Applied Biosystems™ instruments.

*Key benefits of the QuantStudio 3 Real-Time PCR system include:*

#### Easy to use intuitive software design enabling:

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| a. | Easy experiment setup.  |
| b. | Interactive system that allows for faster results acquisition.  |
| c. | An upgraded touch screen that offers an enhanced experience, with increased touch sensitivity and natural interface navigation. |

#### Direct connection to Thermo Fisher Cloud to:

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| a. | Access and analyze your data anytime, from anywhere with an Internet connection.         |
| b. | Back up and share files to collaborate with colleagues worldwide.                        |
| c. | Monitor runs in real time from mobile devices through the instrument Connect mobile app. |

Some advantages of the QuantStudio 3 Real-Time PCR System include: low reagent and sample consumption, fast simple workflow, and no need for thermal optimization (the instrument is factory calibrated for optical and thermal accuracy).

### 2. Invitrogen iBind™ Automated Western Systems Device

A western blot processing benchtop device that utilizes sequential lateral flow (SLF) to perform hands-free blocking, antibody binding, and washes. Using this device, blots are processed and ready for final detection in less than 3 hours. The device also allows for use of existing chromogenic, chemiluminescent, or fluorescent western blotting protocols, along with your choice of primary antibody or secondary antibody conjugates of HRP, AP, or fluorescent dyes. The iBind Western Systems device allows all solutions to be prepared and loaded in the device at the start of the procedure, from which all subsequent steps proceed automatically and uninterrupted by sequential lateral flow technology (SLF), i.e., simple capillary action-no electricity or batteries are required.

### 3. iBright FL1000 Imaging System

A high-performance instrument for imaging and documenting chemiluminescent western blots and colorimetrically stained protein and nucleic acid gels. Also offers fluorescent gel and blot imaging capability using visible and near-IR excitation and emission channels. Designed with a streamlined intuitive interface and advanced automated features, the iBright FL100 system is easy to use for researchers at all experience levels.

### 4. Multiskan Sky Microplate Spectrophotometer

A touchscreen UV/Vis microplate reader designed to be convenient and easy to use for virtually any photometric research application, especially DNA, RNA and protein analysis. Cuvette reading capability is also offered. This absorbance reader is ideal for multi-user environments where a variety of endpoint, kinetic and spectral assays are performed.

## 5. Invitrogen iBlot™ 2 Dry Blotting System

The ultimate western blot transfer system that offers fast western transfer without sacrificing efficiency and uniformity. The iBlot2 Dry Blotting System utilizes innovative pre-assembled dry transfer stacks, with transfer buffer incorporated into gel matrices, so there's no need to prepare messy transfer buffers. Just insert your gel and go! Setup, teardown, and cleanup only takes minutes compared to the much more cumbersome and hands-on steps required for wet-tank transfer. The iBlot2 Dry Blotting System has a simple touchscreen interface and pre-programmed optimized transfer programs, with the option to customize programs to suit your needs. In addition to ease of use and convenience, the iBlot2 Dry Blotting System offers high-efficiency protein transfers for high downstream detection sensitivity-in many cases, higher than wet and semi-dry transfer methods.

Also, on offer are several end-point PCR machines, centrifuges, shakers and vortexers, protein and DNA gel electrophoresis units, freezers and refrigerators, access shared culture room fitted with two BioFlow Lamina air flow cabinets, ductless fume hood, carbon dioxide incubator, temperature controlled shaking incubator, deionized water, autoclave, gas, and vacuum and ice machine.



### Hours of operation

The laboratory will be open from 8 am to 4: 30 pm on Monday to Friday. Unfortunately, there will be no weekend access to the laboratory. If extra time is needed in the laboratory for experiments, such a request would have to be made through writing to the BioCiTi management giving details as to why the extra time will be needed.



### Consumables

Researchers working in the lab will have access to the laboratory, and use of all the lab equipment and glassware. However, researchers are responsible for purchasing consumables specific to their research projects. BioCiTi would, though, assist in the procurement of the consumables through the use of our accounts with Merck, Thermo Scientific Fisher, ABGL, and AEC Amersham.



### Lab rules

Standard laboratory rules apply.



### Benefits of co-working space

- 24/7 security
- Flexibility to change office space as business need demands
- Onsite cleaning staff
- Communal kitchens and ablution facilities
- Access to meeting pods, cohort spaces, event rooms and board rooms (including TV and projector as needed)
- Access to BWB networking and cluster events
- Onsite IT and maintenance support
- High speed internet
- Communal printer
- The Woodstock exchange also conveniently houses a variety of coffee shops and a beautiful lunch garden



### Incubation Programmes

BioCiTi will put out a call for applications to their various incubation programmes during the year. Make sure you apply.



### Pricing

<b>Lab rental only</b>	R6000.00 pp p/m	<b>Lab and co-work space</b>	R8000 pp p/m
<b>Lab and co-work space</b>	R7500.00 4 or more members pp p/m	<b>Lab rental only</b>	R500.00 p/d
<b>Lab and co-work space</b>	R650 pp p/d	<b>Lab and co-work space</b>	R2600 pp p/w

For more information please email [ecosystem@citi.org.za](mailto:ecosystem@citi.org.za)

