



IBA LAUNCHES VERSATILE HIGH-ENERGY NEW CYCLOTRON

June 10th 2021 marked the unveiling of IBA's new versatile, high-energy cyclotron, Cyclone® IKON!

It was showcased during a virtual live event. If you missed it, no worries, you can watch the replay [here](#), you will have the opportunity to meet IKE, the soul of Cyclone® IKON!

35 years of experience and innovation concentrated this breakthrough technology for enhanced availability of theranostic radiopharmaceuticals and reduced radiopharmacy footprint.

Productive

Light & compact, the Cyclone® IKON makes no compromise on power with up to 1500µA extracted beam current.

Adaptive

Injecting a pure and safe radiopharmaceutical is crucial. The optimization of the reaction energy is a key-factor in ensuring this is the case. Some very promising radioisotopes such as ⁶⁴Cu and ⁸⁹Zr are actually produced at energies of 13MeV to avoid

the coproduction of other isotopic impurities and therefore ensure the highest purity of the end-product.

Cyclone® IKON offers the largest energy spectrum for PET and SPECT isotopes from 13 MeV to 30 MeV.

Effective

IBA is dedicated to support its customers with radiopharmacy design, equipment integration, training & GMP guidance. IBA offers complete production solutions from the target irradiation system all the way up to purified end-product. In this way, our customers have full control of their production process and know who to address for support.

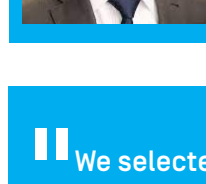
Watch the video to know more about the Cyclone® IKON:



Visit [our website](#) for more info about the Cyclone® IKON.

The first two units of the Cyclone® IKON have already been acquired by two leading companies in radiopharmaceuticals production!

IBA has been a trusted partner of Curium for a long time. We selected IBA for its globally recognized expertise and due to the outstanding capabilities and reliability of the Cyclotron.



Renaud Dehareng,
CEO of Curium Pharma

CURIUM
LIFE FORWARD

We selected IBA because of the reliability of its equipment. It has the most compact and efficient high energy cyclotron on the market.



Erich Kollegger,
CEO of IRE.

Institut des radioéléments

SUCCESS STORIES



FIRST BEAM EXTRACTED AT AZ ISOTOPES !

Despite some challenges due to the Covid situation, the installation of the Cyclone®70 at AZ Isotopes in Indiana is progressing well! After a rigging in August, the commissioning is making good progress with beam extraction up to target position.

Shortly IBA's Germanium and Iodine target/chemistry systems will be added on that machine to provide an effective oncology solution for the US market.

CYCLONE® KIUBE RIGGINGS AROUND THE WORLD

PRINCE OF SONGKLA UNIVERSITY (PSU) IN CHINA

The cyclotron was successfully rigged at the PSU ! The project offered jointly by Philips and IBA includes the integration of the cyclotron, the cameras, all necessary lab equipment,... as well as the facility layout and design for the establishment of a cutting edge GMP radiopharmaceutical production centers.

The new PET center will produce various molecules including FDG and ⁶⁸Ga-PSMA on the Synthera®+ platform but also ¹³N, ¹¹C and ¹⁵O compounds!



QILU UNIVERSITY IN CHINA

The Cyclone® KIUBE was placed into its final position at Qilu University of Technology for the Jinan Jui Tong Da Electronics Co., LTD project. The installation of the Cyclone® KIUBE and Synthera®+ will allow the new radiopharmacy to produce FDG for patient diagnosis.

RIGGING OF TWO RHODOTRON® AT NORTHSTAR MEDICAL RADIOISOTOPES



Two IBA Rhodotron®TT 300-HE (High Energy) electron beam accelerators were rigged in Beloit, Wisconsin. The accelerators are critical components in a first-of-its-kind commercial-scale process to produce Mo-99, the parent radioisotope of technetium-99m, the most widely used medical imaging radioisotope, informing healthcare decisions for approximately 40,000 U.S. patients daily.

ROYAL DARWIN HOSPITAL IN AUSTRALIA



The cyclotron for the Quantum Health Group project is now in its final position at Royal Darwin Hospital! This project includes the integration of multiple pieces of equipment such as hotcells and Synthera®+ synthesis modules for the production of ¹⁸F and ⁶⁸Ga compounds.



GUANGDONG SINOTAU MOLECULAR IMAGING TECHNOLOGY CO., LTD IN CHINA

The cyclotron was rigged at Guangdong SinoTau Molecular Imaging Technology Co., Ltd. The new radiopharmacy is equipped with cutting edge technology; the Cyclone® KIUBE Custom Energy and Synthera®+ synthesizers to ensure a reliable production of ¹⁸F and ⁶⁸Ga tracers as well as ⁸⁹Zr and ⁶⁴Cu on solid target.



CHEMISTRY

eSRS SATELLITE SYMPOSIUM FROM NEW TRACERS DEVELOPMENTS TO ROUTINE CLINICAL APPLICATIONS ON SYNTERA®+ PLATFORM

PET modality is one of the most rapidly growing area of medical imaging thanks to the availability of innumerable clinical centers with their own cyclotrons. To be able to cover the growing clinical demands, radiopharmacies are developing new tracers while keeping up their routine production in a cGMP environment.

In this symposium, Dr. Ida Nymann Petersen, PhD. and Dr. Vasko Kramer, PhD. shared their experience in the development of new tracers on the Synthera® platform. Did you miss it? Watch the recording



SYNTERA® INSTALLATIONS AROUND THE GLOBE

St. Teresa Hospital Hong Kong

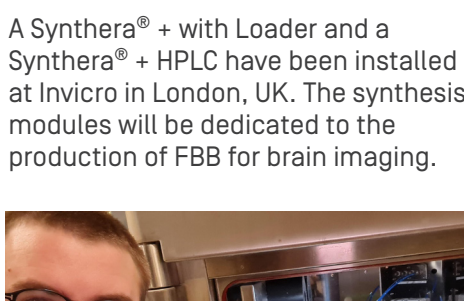
St. Teresa Hospital Hong Kong in Taiwan is now equipped with the Synthera®+ platform with its loader and Synthera®+ HPLC for the production of FDG, NaF and FSPMA.

CMI, Inc

CMI, Inc in Kyoto, Japan will now be able to produce FBB with their new Synthera®+ and Synthera®+ HPLC platforms.

Invicro

A Synthera®+ with Loader and a Synthera®+ HPLC have been installed at Invicro in London, UK. The synthesis modules will be dedicated to the production of FBB for brain imaging.



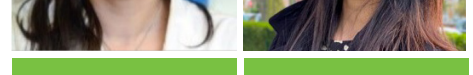
Alliance Medical Radiopharmacy Ltd

Alliance Medical Radiopharmacy Ltd will also produce FBB with their new Synthera®+ and Synthera®+ HPLC.

IBA REINFORCES ITS RADIOCHEMISTRY TEAM!

We welcome Sujala Vaniyath and Noémie Emmanuel, two new members of our radiochemistry team!

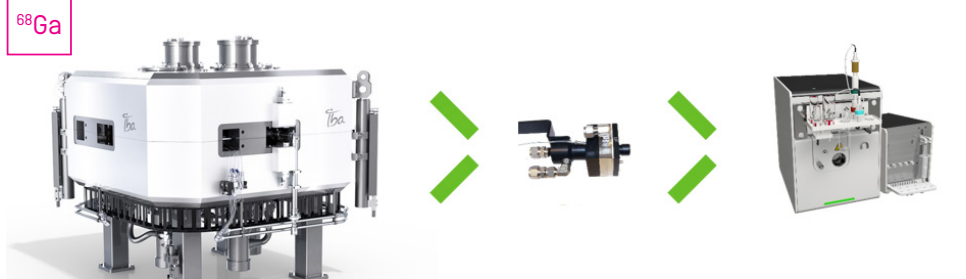
Sujala will work as a Sales Manager for Synthera®+ and Noémie will work as a radiochemist.



Noémie Emmanuel

Sujala Vaniyath

CLOSER TO THE USERS



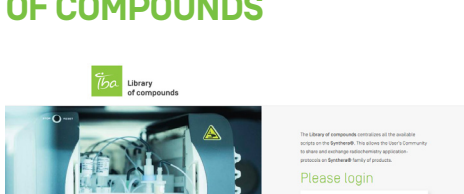
SPECIAL IBA USERS SESSION ON ⁶⁸Ga PRODUCTION ON A CYCLOTRON

Given the increased demand on Ga-68, IBA organized a special session for its users on June 24th 2.30pm (CET).

A presentation about "⁶⁸Ga production process from a cyclotron: why & how?" from Francisco Alves, chief physicist & head of cyclotron at ICNAS-University of Coimbra in Portugal will be followed by 1 hour of discussion and Q&A with IBA's experts.

For more information: radiopharmasolutions@iba-group.com

A NEW SYNTERA® LIBRARY OF COMPOUNDS



IBA redesigned the Synthera® library of compounds to make it even easier to share your recipes with the community!

Discover the new platform and upload your recipes: synthera-libraryofcompounds.com

IBA WEBINARS



Prof. Francisco Alves

Chief physicist & head of Cyclotron at ICNAS-University of Coimbra



Dr. Jeremie Calais

Director of the Clinical Research Program of the NM and Therapeutics Division at UCLA



Dr. Stefan Körber

First Senior Medical Doctor Department of Radiation Oncology Heidelberg University Hospital



Dr. Kai Schubert

Medical Physicist for Radiation Oncology and Radiation Therapy at University Clinic of Heidelberg



Watch the recordings

WATCH OR REPLAY THE WEBINAR SERIE ON PSMA

⁶⁸Ga-PSMA, from production to clinical applications

⁶⁸Ga Production process from a cyclotron: why & how? -By Prof. Francisco Alves

Diagnostic efficacy of ⁶⁸Ga-PSMA versus conventional imaging in prostate cancer patients. - By Dr. Jeremie Calais

[Watch it here](#)

The Role of Specific PET PSMA Imaging and SBRT in the Management of Prostate Cancer

"Impact of PSMA PET on management of patients with oligo metastatic prostate cancer" - By Dr. Jeremie Calais

The Role of SBRT in the treatment of oligometastatic prostate cancer: "Why & How SBRT for these patients"- By Dr. Stefan Körber

"Quality assurance for SBRT treatments" - By Dr. Kai Schubert

[Watch it here](#)