



Dr Elodie Caboux and Dr Maimuna Mendy with Dr Doumbia Simini and her team from Institut Pasteur, Côte d'Ivoire

Message from the Editor

We are delighted to welcome three new members to the BCNet family: Barretos Cancer Hospital from Brazil, The Medical Research Institute at Alexandria University in Egypt and the University of Health and Allied Sciences from Ghana, West Africa.

In this edition we report on a visit to the Côte d'Ivoire. Our visit was to participate in a highly successful biobank training workshop for pathologists and while we were there, we visited the Institut Pasteur. It was a wonderful experience and congratulations to Dr Doumbia Simini and colleagues for establishing such an impressive biobank facility.

I am pleased to say that we are currently finalising a number of important manuscripts for submission. These will include the LIMS Evaluation which was carried out by our IT Working Group as well as an interesting white paper on Ethics, Legal and Social Issues in LMIC.

The revised Common Minimum Technical Standards and Protocols for Biobanks Dedicated to Cancer Research is currently with the IARC editors and we are confident that the new issue will be ready for printing in January 2017.

We are delighted to announce a three-day training workshop for pathologists to be held from 22 – 24 May 2017 in Cairo, Egypt. You will have received an email from the IARC Coordinator to request your assistance in identifying suitable candidates for the training and we will be in touch soon with more details.

Please don't hesitate to give us your feedback on the newsletter so that we can be sure that we are satisfying your needs.

Dr Maimuna Mendy
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News from the IARC Coordinator

IARC visited the Pasteur Institute Côte d'Ivoire on 2 September 2016. The Institute was established in 1972 and has been part of the RIIP (International network of Pasteur Institute*) since 1978.



Spread over two sites, the institute conducts biomedical activities including molecular biology, bacteriology, environmental microbiology, HIV testing, health and security.

Research activities are conducted on health and environment, public health and microorganisms, antimicrobial resistance, respiratory pathogens, mycobacteria and related diseases transmitted by pathogen vectors.

The Pasteur Institute Côte d'Ivoire is also involved in biobanking projects. It is part of the PIBNET project (Pasteur International Bioresources Network**) which monitors epidemic and infectious diseases. The creation of a virtual biobank will help in the sharing of microorganism collections through the development of a global catalogue.



Pasteur Institute Côte d'Ivoire stores 35,000 biological samples at room temperature, -20°C or -80°C. The biological samples include human samples (blood, LCR, urine, nucleic acids, and faeces), animal samples, microorganisms or environmental samples.

The institute is currently building a liquid nitrogen facility that should be completed in 2017. The total capacity of this new facility will be 3.5 million samples.

During IARC's visit, discussions were initiated concerning ethical, legal and social issues, biobank costs as well as sharing biological samples, networking and collaboration.

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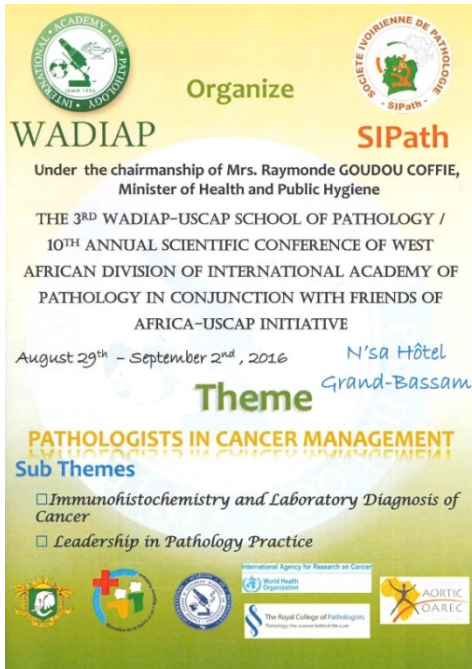
* <http://www.pasteur.fr/en/international/institut-pasteur-international-network>

** https://research.pasteur.fr/en/program_project/pibnet-pasteur-international-bioresources-network/



News from the IARC Coordinator

Biobank training workshop for Pathologists



IARC/BCNet was invited to conduct a training workshop on biobanking for Pathologists attending the 10th WADIAP conference held in Grand Bassam, Côte d'Ivoire from 29 August to 2 September.

The theme of the conference was 'Pathologists in Cancer Management' with 'immunohistochemistry and laboratory diagnosis of cancer' and 'Leadership in Pathology Practice' as two sub themes. The one-day workshop for pathologists is part of the BCNet's goal to conduct training for professionals working up-and-downstream of biobanking to raise awareness on the key issues that contribute to high quality and better management of biological resources.

It was designed to introduce pathologists to biobanking and its key components including ethics, legal and social issues and to outline the role of pathologists in the current scientific and research era; the importance of standardized coding for cancer registry; pre-analytical steps in sample handling. Associated data and LIMS for data management were also discussed.

Presentation titles included appropriate processing of tissue samples for diagnosis and research; ancillary diagnostic methods in the field of pathology including immunohistochemistry; the

principles of ICD-O coding; the role of quality assurance; molecular pathology; the link between standardized tissue processing and molecular pathology; international guidelines on Ethics issues related to biobanking and ethics committee procedure in Africa.

The training was attended by over 30 participants and the evaluation report from 24 who completed the feedback survey indicated that the training was highly relevant and interactive. Participants reported that the presentations were informative and over 95% of them will recommend it to colleagues.

You will find below the eight related web links:

- ◆ http://bcnet.iarc.fr/docs/2016_WADIAP-USCAP/Behnoush_Abedi-Ardekani_WADIAP-USCAP-2016_Handling_of_samples.pdf
- ◆ http://bcnet.iarc.fr/docs/2016_WADIAP-USCAP/Behnoush_Abedi-Ardekani_WADIAP-USCAP-2016_Immunohistochemistry.pdf
- ◆ http://bcnet.iarc.fr/docs/2016_WADIAP-USCAP/Behnoush_Abedi-Ardekani_WADIAP-USCAP-2016_International_classification_of_diseases_for_oncology.pdf
- ◆ http://bcnet.iarc.fr/docs/2016_WADIAP-USCAP/Behnoush_Abedi-Ardekani_WADIAP-USCAP-2016_Molecular_Pathology.pdf
- ◆ http://bcnet.iarc.fr/docs/2016_WADIAP-USCAP/Elodie_Caboux_WADIAP-USCAP-2016_Associated_data_and_system_for_data_management.pdf
- ◆ http://bcnet.iarc.fr/docs/2016_WADIAP-USCAP/Elodie_Caboux_WADIAP-USCAP-2016_Preanalytical_steps_in_sample_handling.pdf
- ◆ http://bcnet.iarc.fr/docs/2016_WADIAP-USCAP/Maimuna_Mendy_WADIAP-USCAP-2016_Biobank_and_Ethics.pdf
- ◆ http://bcnet.iarc.fr/docs/2016_WADIAP-USCAP/Maimuna_Mendy_WADIAP-USCAP-2016_Biobank_introduction.pdf



News from the IARC Coordinator



Prof Adekunle Adesina, Baylor College of Medicine, Houston TX, USA; Prof Theodorus van der Kwast, University of Toronto, Canada and Dr Maimuna Mendy, IARC

The IARC faculty consisted of Dr Behnoush Abedi-Ardekani, Pathologist, Dr Elodie Caboux, Assistant-Biobank Process Management and Dr Maimuna Mendy, Head, Laboratory Services and Biobank Group.



IARC 50 for 50

The previous issue of the BCNetter coincided with the IARC@50 conference in Lyon in June this year. Do take a look at the conference website. Many of the presentations are there in .pdf format as well as some of the abstracts. <http://www.iarc-conference2016.com/index.php?langue=en&onglet=21&aces=&idUser=&emailUser>

Adjacent to the IARC@50 Conference was the IARC 50 for 50 event. The goal of this initiative was to identify 50 future leaders in cancer research from low- and middle-income countries, one for each year of IARC's existence, and invite them to spend a programmed week in Lyon:

- ◆ Participating in a specialised pre-conference workshop, Fostering Leadership in Cancer Research, 6-7 June 2016, at IARC.
- ◆ Attending, as full delegates, the conference on Global Cancer: Occurrence, Causes and Avenues to Prevention, 8-10 June 2016, at the Centre de Congrès in Lyon.

Participants were offered the opportunity to:

- ◆ Network with their peers and world leaders in cancer research
- ◆ Through the two-day workshop at IARC, review and discuss key attributes of leadership in cancer research
- ◆ Discuss opportunities and future questions to be addressed in cancer research in their countries
- ◆ Share best practices and explore solutions to challenges within leadership roles in cancer research.

Three members of BCNet institutions participated in the 50 for 50 workshop, where Dr Maimuna Mendy was one of the presenters. Her presentation can be found by following the link: http://bcnet.iarc.fr/docs/2016_001.pdf

Dr Maimuna Mendy
BCNet Coordinator

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Congratulations to our B3Africa Colleagues – Second Prize for Best Poster at European Biobank Week in September 2016!!



News from BCNet Members

The National Cancer Institute of Mexico concludes a successful first biobank course

The Tumour Bank of the National Cancer Institute of Mexico (INCan) successfully completed a biobanking course entitled "Biobanks as a Platform for Biomedical Research" in July this year. The course was the first of its kind in Mexico.



Back row right to left: MSc Carols Garibay, MSc Israel Torres, Bio Victor Olivera, PhD Gustavo Steffanof, Dr Diana Aguilar. Front row left to right. CCh Virginia Enriquez, Nurse Lourdes Lopez, PhD Lourdes Suarez, PhD Luz Ma. Ruiz Godoy, Miss Silvia Garcia, PhD Fabiola Calderon

The forty-hour theoretical and practical course, was aimed at health professionals who had already undertaken biobank training or had already established a biobank but wanted to add to their skill-set.

Dr Luz Maria Ruiz Godoy, Biobank Coordinator INCan, said that during the theoretical part of the course, participants were able to review concepts such as bioethics to biobanks, information related to the doubts and fears of the patient to donate their tissue or blood.



Recently published articles (2015-2016) concerning the impact of the quality of pre-analytical processes for samples for research were also discussed, from basic research to personalized medicine.

The practical part of the course included a review of techniques and quality control for the collection of both molecular and histological samples. In this way, the entire process, from informed consent by the patient to the delivery of samples for a research protocol could be followed.

INCan is part of the Network of National Cancer Institutes in Latin America (RINC-UNASUR), which is also a member of the Task Force Biobank of the Network (REBLAC). The training was attended by Dr Gustavo Stefanoff, Coordinator of the biobank of the National Cancer Institute of Brazil and Chairman of the Task Force Biobank of RINC. The training was opened by Dr Eduardo Cervera Ceballos, Director of the Institute of Teaching.

The National Cancer Institute of Mexico is committed to the dissemination of knowledge and techniques on biobanking and to the creation and/or improvement of biobanks throughout the region. Representatives from newly incorporated biobanks participated in the meeting. They included representatives from Argentina (General Pediatric Hospital Ricardo Rodríguez), Chile (Pediatric Hospital Luis Calvo Mackenna), and Puerto Rico (University of Puerto Rico Comprehensive Cancer Center and Ponce School of Medicine and Health Sciences).

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News from BCNet Members

European Biobank Week

The National Cancer Institute of Egypt recently attended the European Biobank Week, where Dr Ahmed Samir gave a presentation entitled *Using different tools to introduce the concept of biobanking to the public in Egypt* and Dr Rania Labib gave a presentation: *Biobank Participation Beliefs and Attitudes: Analysis of Factors influencing participation in a paediatric cancer research biorepository - Egypt*.

A new BCNet member: Alexandria University

Dr Fayek Elkhwsy sent some information about himself as an introduction. He is Head of the Department of Biomedical Informatics and Medical Statistics, Medical Research Institute. He has attended and conducted several training and research activities at the Mario Negri Institute in Milan, Italy, the University of California Irvine, USA and Oxford University, UK. Dr Elkhwsy has published several articles on bladder cancer, liver cancer, skin cancer, breast cancer, Wilms' tumour and ovarian cancer. He has collaborations with all the oncology centres in Egypt, including the National Liver Institute, National Cancer Institute, Damanhur University, Pharos University in Alexandria, Tanta University and Childhood Cancer Institute and the Ministry of Health hospitals in Alexandria.

He is particularly proud of collaboration with the largest charity of Alexandria Ayadia Almostkbal – Oncology Center (AAA_OC) and Alexandria Childhood University where he is collaborating to establish a population-based Childhood Cancer Registry.

Dr Elkhwsy is an associate member of the Union International for Cancer Control (UICC), European Association for Cancer Research (EACR), Egyptian Association for Cancer Research (EARC), Geneva Foundation for Medical Education and Research (GFMER) and European, North Africa, Middle East for Biopreservation and Biobanking (ESBB). He has been nominated EMRO WHO Temporary Advisor in STD control in the region and has designed and conducted several research projects in Saudi Arabia and Libya on cancer, infertility and tropical diseases.

Targets for the Medical Research Institute include: to have a well-established, population-based cancer registry for Alexandria, to be a distinguished institute with a leading role in collaborating to accelerate the understanding of cancer, tropical diseases and other health problems in Alexandria, Egypt and globally.

A Biobanking Course For Medical Students: Targeting potential future customers

Ahmed Samir AbdelHafiz¹, Merhan A. Fouda², Shalma I. El-Jaafary³, Rania M. Labib⁴, Hala Gabr⁵

¹ Biorepository and Biospecimen Research Unit, Research Dept. Children Cancer Hospital Egypt; ⁴ Clinical and Chemical Pathology Dept. Faculty of Medicine, Cairo University; ⁵ Clinical Pathology Dept. MC, Cairo University; Egyptian National Cancer Institute Biobank; ² Neurology Dept. Faculty of Medicine, Cairo University;

Introduction

Biobanking is a new concept in Egypt and knowledge about it, is still limited. Public engagement and enhancing social acceptability is fundamental for biobank success. Medical students represent a specific segment of the public, since they represent potential future customers for the biobank and, they come in direct contact with potential participants. Raising awareness and creating a positive attitude about biobanks in this group could have a positive effect on the future of biobank work in Egypt.

Results

40 participants attended the course, most participants were from the Faculty of Medicine, Cairo University. Participants from the Faculty of Pharmacy and the Faculty of Science were present as well.

Results (Continued)

We used Facebook again for evaluation. A post about the course was created on ESBB Facebook page. The post performed better than 95% of other posts on the page and the insights of the page in the form of page likes, post reach and people engagement have improved significantly in the next few days after the course. This interaction was considered as another sign for satisfaction of participants about the content.

Methods

Two days course was conducted for undergraduate students at the Faculty of Medicine, Cairo University. The course aimed at introducing the concept of biobanking to the target group, provide basic knowledge about issues related to biobanking and medical research including ethics, quality, information technology and to discuss its medical research applications as pharmacogenetics and personalized medicine. In addition to traditional lectures, interesting teaching methods were used. Case studies (real and hypothetical) were used to explain ethics, and a funny quiz to explain quality. Facebook and word of mouth were used only for marketing and advertising. Some lectures were included about stem cells, a science that was attractive to the target group. The course was endorsed by BCNET.

Conclusion

- Biobanking training and education can be carried out with limited resources and at a low cost.
- Understanding the needs of the target group and using the appropriate measures for communication is essential to prepare the curriculum and to ensure efficient message delivery.
- Using social media for communication can be an easy, effective and a cheap method for interaction and getting feedback. However, this method has some drawbacks since updates may not reach some participants. So, social media can be used in combination with other methods to increase efficiency.

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The research is financially supported by the Science and Technology Development Fund (STDF), Egypt (grant number CSE5232). We would like to thank Dr. Maimuna Wendy and Ms. Sally Molden from BCNET for their help and support. We would also like to thank Dr. Robert Hewitt and ESBB for their cooperation and understanding.

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News from BCNet Members

National Biobanking Day

On Saturday 24 September a one-day conference targeting mainly undergraduates and young researchers was held at the Faculty of Medicine, Cairo University. The conference included lectures about biobanking, quality, ethics, translational research, stem cells and stem cell banking.

About 90 participants attended the conference which was organised in collaboration with the Egyptian Society of Progenitor Cell Research (ESPCR). A workshop on the basics of molecular biology including DNA extraction, PCR and gel electrophoresis was held over four days following the event.



A Roadmap to build a biobank

For readers of Arabic in the network, follow the link to an article in Scientific American featuring Maimuna Mendy, Rania Labib and Maher Sughayer:

<https://www.scientificamerican.com/arabic/articles/news/a-road-map-for-biobanking/>



News from BCNet Members

5th Polish Congress of Genetics 19-22 September 2016 Lodz, Poland

The fifth Polish Congress of Genetics was one of the biggest scientific events to be held in Poland. It took place in Lodz, the capital city of Polish industry which is also home to some well-known clinical centres and a medical university.

One of the congress sessions was dedicated to biobanking which, during last few years has become an important topic for Polish scientists who started creating a national network of biobanks.

Also in September, Poland became an official member of BBMRI-ERIC. This is a very important time for the Polish Biobanking community, and we were honoured that Dr Maimuna Mendy, Head of the IARC Biobank, accepted our invitation to give a talk. Collaboration between IARC and the Polish Network of Biobanks has been developing for the last few years, resulting in training at IARC, collaboration within BCNet and the B3Africa project.

Dr Mendy's talk was related to biobanking and genetic studies in Africa: the opportunities and challenges that African biobanks face. During the biobanking session there were also talks given by the Polish National Biobanking Coordinator and biobank managers, who presented their units and plans for collaboration on a national and international level. Other congress sessions concentrated on personalized medicine, rare diseases, civilization diseases, gene therapies, plant genetics and microbiology.

You can find Dr Kozera's and Dr Strapagiel's presentations here:

http://bcnet.iarc.fr/docs/2016_003.pdf

http://bcnet.iarc.fr/docs/2016_004.pdf

Dr Mendy's presentation is here;

http://bcnet.iarc.fr/docs/2016_002.pdf

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News from Breast Care International:

Follow the link below for an update on what's happening at Breast Care International:

<http://www.myjoyonline.com/news/2016/August-5th/breast-care-international-wins-world-business-award.php>

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The B3Africa Project will be hosting a webinar on Minimum Information About Biobank data Sharing (MIABIS) on 21 November at 1300 CET. Contact moldans@iarc.fr for more information.

Dr Elodie Caboux will be giving biobank training classes as part of the Ecole Biologie-Biotech de l'Université Catholique de Lyon. These classes are in French and will be recorded. They may be of interest to the network's francophone members.

Please follow this link to good training/learning material on the packaging/transport of infectious substances by WHO.

<http://www.who.int/ihr/capacity-strengthening/infectious-substances/en/>



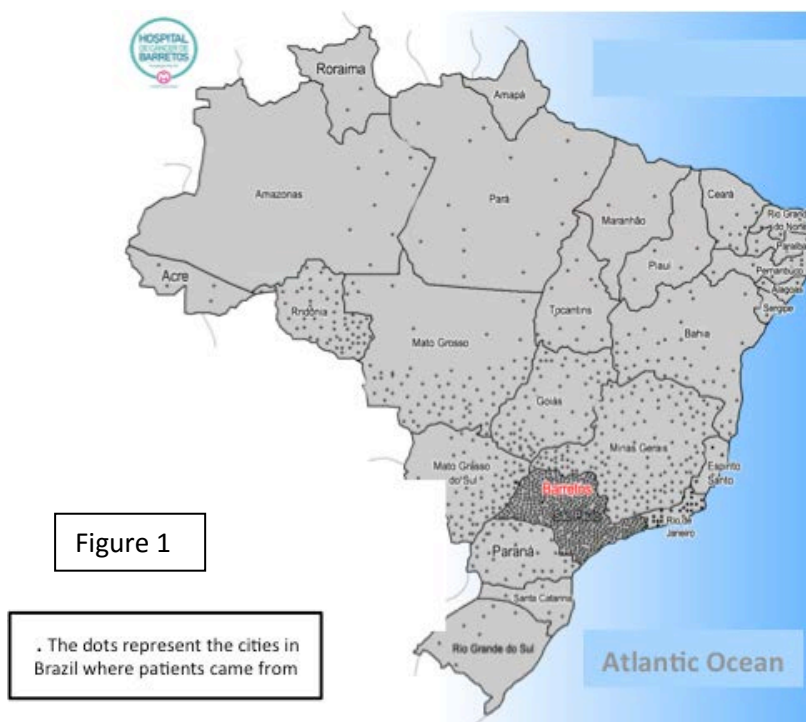
News from BCNet Members

Barretos Cancer Hospital - Biobank

(BCH-BB)

The Barretos Cancer Hospital (BCH), founded in November 1967 by Dr Paulo Prata, is located in the city of Barretos, Sao Paulo, Brazil. The philosophy of this institution is to focus on the low-income population; giving care and compassion to the cancer patient and their family. Caregivers integrate the best of oncology prevention, treatment, teaching and research strategies.

The hospital currently assists in 1,889 cities in Brazil's 27 states (Fig. 1). The hospital sees an average of 11,000 new cancer cases per year and has been cataloguing these patients since 1985 totaling, in 2015, about 135,219 people.



Twelve mobile units as well as nine stationary units are funded by the Brazilian Public Health System (Fig 2).

In 2008, BCH created the Teaching and Research Institute. The building includes a training area with a library, lecture halls and offices, a Research Support Center, an IRB and a Molecular Oncology Research Center equipped with state-of-the-art equipment that permit the development of different projects from basic to translational research. The Teaching and Research Institute also includes a Medical Residency Commission and a Master's and PhD Program in Oncology.

Barretos Cancer Hospital Biobank

The Biobank-BCH (BB-BCH) was founded in 2006 to store and process patients' biological material, such as tumour tissue, normal tissue, blood and derivatives, cytological material and other secretions or body fluids, for research purposes. Besides cancer patients' specimens, the BB-BCH also stores biological material of healthy individuals as control for several studies.

The consent for collection, storage and use of biological material to BB-BCH is formalized through the Informed Consent (IC) document signed by the participant. Because the research areas developed in our hospital include not only patients but also healthy individuals, two models of IC were created; one for the collection and storage of biological material in patients with tumours and another for individuals without a cancer diagnosis. Both IC models follow the National Ministry of Health guidelines. To be used in research, the biological samples at BCH-BB need prior approval from the local ethics committee or the National Ministry of Health where applicable.

The BB-BCH has a modern, 100m² facility. It has two freezer rooms and a molecular biology laboratory for sample processing and nucleic acid and other biomolecule isolation. It contains 10 -80°C freezers, 2 -30°C freezers, all connected to a temperature alarm system. For sample processing it contains a laser-microdissection microscope (Leica), an automated system (Qiasymphony), microfluid electrophoresis system (Bioanalyzer and TapeStation), spectrophotometers and fluorospectrophotometers.



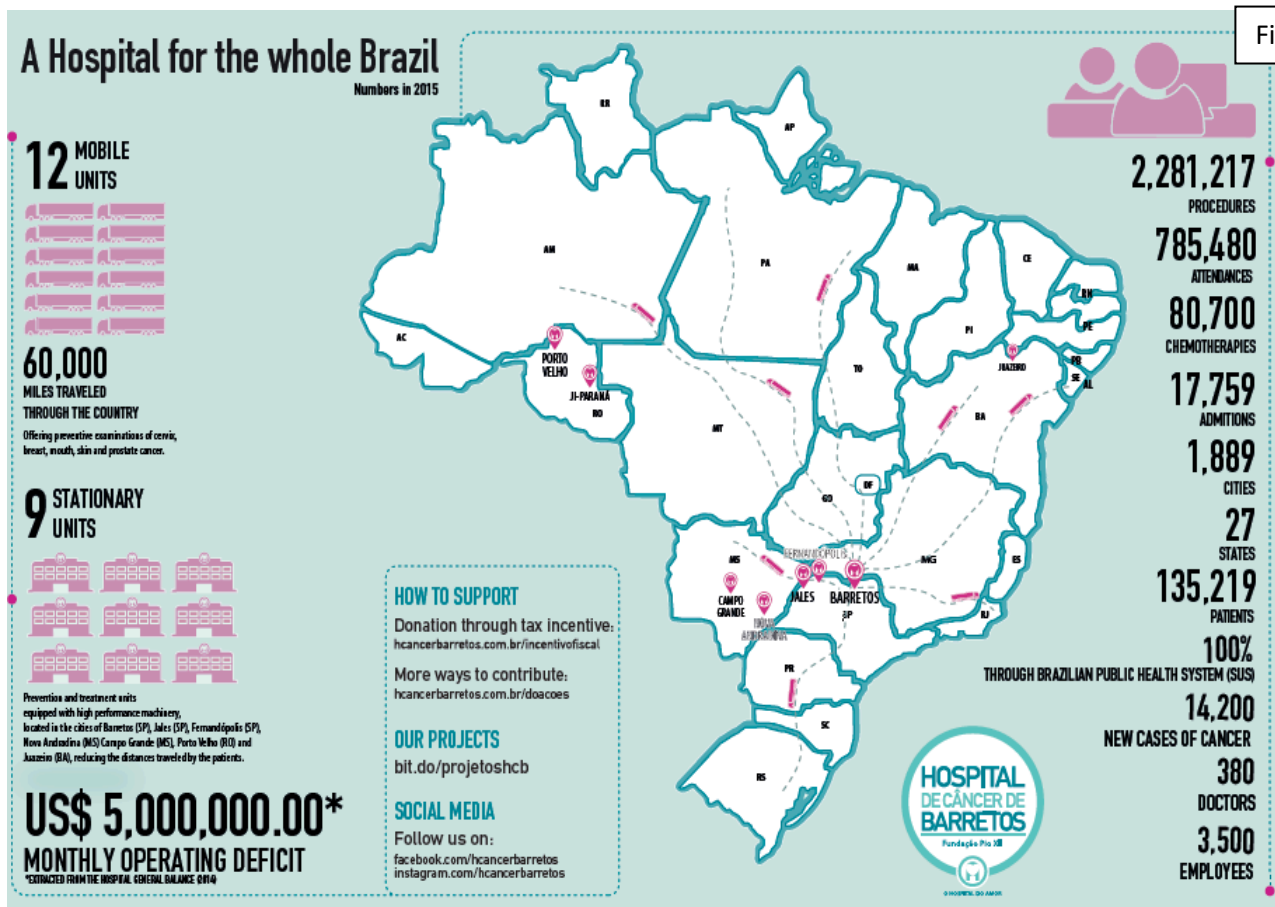
News from BCNet Members

Currently there are 164,528 samples from 32,682 patients organized in primary and metastatic tissue tumour, normal tissue, bone marrow, serum, plasma, buffy coat and others fluids such as saliva and urine. The BCH-BB has a collection of tissue and blood from the same patients with different types of tumour such as breast, brain, lung, stomach, cervical, bladder, rectum, skin, head and neck, pancreas, testicle and bone. The samples are collected during surgery or biopsy of patients in our hospital, following local institutional standard procedures.

Besides the quality of the facilities, the BCH-BB has a highly qualified and multidisciplinary team able to ensure the quality of the service and promote the development of research projects from the cryopreserved samples.

The BCH-BB has supported several international consortiums and projects, such as United States-Latin America Cancer Research Network (USLANCRN), The Cancer Genome Atlas (TCGA), and International Cancer Genome Consortium, by processing hundreds of samples.

Figure 2



In the BCH-BB the samples are labeled with a sample tracking number and stored in -80°C freezers for DNA/RNA extraction for genomic and genetic analyses. This storage is carried out in an organized manner and the location of each tube and sample in the cryogenic freezer is mapped. Mapping includes the freezer number, shelf, rack, drawer, box and position inside the box.

A new Research Center for Cancer Prevention is being built, and an extension of BCH-BB will be included, in order to increase our storage capability and contribute even more to the development of cancer research of the Brazilian population.

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Updates from the Working Groups

Education and Training Working Group

The BCNet Education and Training Committee has been discussing next steps to provide the most relevant training to the network. BCNet members were contacted with three questions:

1. What is your most pressing training need over the next few years, including information on the target audience that would benefit from this training? If you see more than one area, please prioritise them by those that would provide the most impact for your organisation/country.
2. If you have carried out any training activities, we would like to know about them. And, if you have any resources that are available from your training, would you be willing to share these electronic resources on the BCNet portal for others to view (videos, ppts, etc)?
3. Would you be willing to host the next training activity of BCNet? We will have to be careful to select a site that will be cost effective for the most members to travel and those sites with infrastructure to support the training. A bonus would be those sites that could participate in cost sharing of the training.

The E&T working group received a positive response from a number of institutes offering to host the next training workshop and we are currently planning a 3-day training workshop for pathologists in Cairo, from 22 – 24 May 2017.

A common thread through all the responses was the need for training for pathologists, so the May training workshop will be designed to provide training to those BCNet members who have an existing pathology capacity.



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Ethical, Legal and Social Issues Working Group

The BCNet Ethical, Legal and Social Issues (ELSI) Working Group (WG) has had a prolific year. Led by Chair Ma'n H. Zawati of the McGill University Centre of Genomics and Policy and flanked by leading experts in ethics, law and biobanking from 3 continents, the ELSI Working Group aims to advise the BCNet Advisory Committee on strategy, tools and procedures relating to ethical, legal and social issues.

As a first step in the New Year, a teleconference was organized to renew the milestones of the WG. In addition to reviewing recent activities, the ELSI Working Group members also elaborated their plan for 2016. The Working Group's tangible milestones focus on tool customization and publication opportunities. Notably, ELSI Working Group members aim to submit a publication examining concerns and solutions related to informed consent in Low and Middle Income Countries (LMIC) by the end of Autumn 2016.

Another article that summarizes the deliberations of a past BCNet Training Program that took place November 3rd-5th 2015 at IARC in Lyon, France is also planned.

During the past year, the ELSI WG Chair has given a grand round training session at the King Hussein Cancer Centre (Amman, Jordan) on August 1 2016, which focused on the ethical and legal issues of repurposing samples from clinical care to research.



Updates from the Working Groups, Cont'd

Additionally, a 2-day training workshop is planned for the members of the Institutional Review Board of the King Hussein Cancer Centre. Ma'n H. Zawati will lead the training sessions, which will focus on the ethical and legal issues facing cancer-specific biobanks. The training will be held on December 21-22 of this year.

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IT Working Group

The IT Working Group has finished the manuscript on LIMS evaluation which has now been submitted for publication in Biopreservation and Biobanking.



SOPs in the Network

At the BCNet training workshop held at IARC in November we asked you to submit your SOPs in a poster format and these have now been reviewed. In total we have 263 SOPs ranging from Sample Collection to Sample Shipment and everything in between.

At IARC we are currently reviewing our own SOPs and all of these will be uploaded onto the BCNet website, including an SOP template which you are welcome to use as a guide.

Interestingly, we have an intern joining our Biobank team from the beginning of November who will be working on a project to verify the IARC SOPs and practices and to ensure that the biobank conforms to the new CEN standards.

BCNet Partners



Upcoming Events

November 2016

How to build a biobank – Learning by Doing
23-25 November 2016, Graz

Kenya International Cancer Conference
24 – 26 Nov, Kisumu
<http://www.kesho-kenya.org/site/>



December 2016

e-AGE 2016
1-2 December, Beirut
<http://asrenorg.net/eage2016/?q=content/e-age-2016>

African Society for Laboratory Medicine: Laboratory Medicine in Africa - Combatting Global Health Threats
Cape Town, South Africa
<http://asm2016.org>

Who Are We?

BCNet is the Low- and Middle-Income Countries (LMIC) Biobank and Cohort Building Network, which was established in 2013 to provide a platform for collaboration between its members, partners, IARC and the international community. BCNet aims to support biobanking and cohort-building activities and to develop sustainable infrastructures for the management of high-quality biological samples and data for research, using best practice principles and guidelines.

LMIC

Contact information

We are on Twitter!



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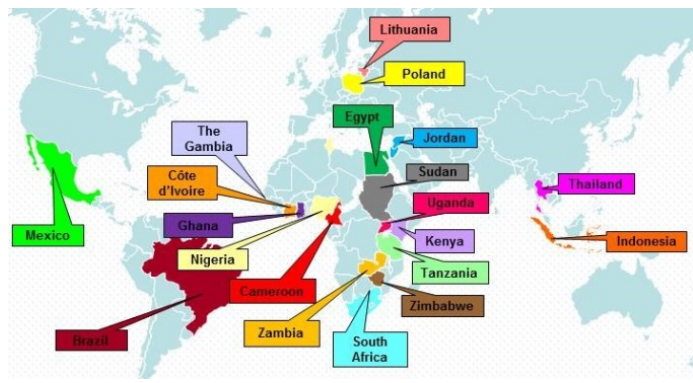
<http://bcnet.iarc.fr/>



BCNET
BIOBANK AND COHORT BUILDING NETWORK



BCNet Members



Barretos Cancer Hospital

Brazil



Department of Medical Sciences
Université des Montagnes

Cameroon



Faculty of Medicine & Biomedical Sciences
University of Yaounde I

Cameroon



Institut Pasteur

Côte d'Ivoire



Medical Research Institute
Alexandria University

Egypt



National Liver Institute

Egypt



National Cancer Institute

Egypt



Children's Cancer Hospital -
57357

Egypt



Breast Care International

Ghana



University of Health and Allied Sciences

Ghana



Faculty of Medicine
Universitas Gadjah Mada

Indonesia



King Hussein Cancer Center

Jordan



Ampath Reference Laboratory

Kenya



National Cancer Institute

Lithuania



Instituto Nacional de
Cancerologia

Mexico



College of Medicine, University
of Ibadan

Nigeria



Obafemi Awolowo University
Teaching Hospital

Nigeria



Wroclaw Research Centre EIT+

Poland



Biobank Lodz
University of Lodz

Poland



National Health Laboratory
Services

South Africa

RICK



Radio-Isotope Centre
Khartoum

Sudan

Kilimanjaro Clinical Research
Institute

Tanzania



National Cancer Institute

Thailand



Medical Research Council Unit

The Gambia



College of Health Sciences
Makerere University

Uganda



Centre for Infectious Disease
Research

Zambia



University of Zimbabwe,
College of Health Sciences

Zimbabwe



African Institute of Biomedical
Science & Technology

Zimbabwe

