



LET Committee Report



Committee Aims

- The aim of the LET Committee is to coordinate the development and sharing of best practice in teaching and learning methods, and to support bioinformatics trainers. This includes contributing to curriculum guidance, core competencies, trainer recognition, and developing a trainer-support platform.



Committee Members

- Nicola Mulder
- Celia van Gelder
- Vicky Schneider
- Cath Brooksbank
- Pedro Fernandes
- Marie-Claude Blatter
- Gabriella Rustici
- Vicky Nembaware



Task forces/activities

- Trainer support task force (Cath Brooksbank)
- Accreditation/recognition task force (Pedro Fernandes)
- Train the school teachers task force (Marie-Claude Blatter)
- E-learning task force (Celia van Gelder)
- Capacity development (Nicky Mulder)

Long terms plans from 2014



- Have useful resources on the website for:
 - Trainers
 - High school teachers
- Run training workshops on e.g. best practices, teaching methods, evaluation etc.
- Provide information on e-learning facilities
- Have accreditation system for lecturers

GOBLET Trainer Support Task force



- Leveraged off other projects to...
 - Create a toolkit for trainers
www.on-course.eu/toolkit (EMTRAIN)
 - Secure funding for two train-the-trainer workshops in 2016 – probably Italy and Slovenia (ELIXIR)
 - Working together on shared materials for NGS data analysis (ELIXIR-UK) and metagenomics data analysis (GOBLET-ELIXIR)

Discover how you learn

Identify your preferred learning style and relate this to how you train.

Learning Style	Count
Pragmatist Style	36
Theorist Style	25
Reflector Style	15

Pragmatist Style (36%)
As a pragmatist, you need to be able to see how t... more

Theorist Style (25%)
Theorists like to think through problems in a log... more

Reflector Style (15%)
As a reflector you prefer to stand back and obser... more

Explore training strategies

Quickly find and use training strategies that are well suited to the type of training that you do.

What type of learning delivery are you considering? (0)

How often will you offer the course? (1)

one-off or on request
 several times in short succession
 annually/ biannually

The people you are going to train... (0)

As a trainer, you (or your colleagues) have... (0)

Featured learning strategy

Learn how to make the most of **brainstorming**.

Search for...

- Brainstorming
- Breakout session
- Case study
- Classroom response system
- Closed poll**
- Community of practice
- Educational...

EMTRAIN portal



Toolkit for trainers



Register Sign in



Get started



Explore training strategies



Optimize your training



Connect with other learning professionals



GOBLET T-t-T workshop



- Cape Town 16-17th November
- Covered aspects of training –delivery, course organisation, etc.
- Discussed core competencies for different trainee audiences
- Discussed trainer recognition
- Could come out with some useful documents/guidelines for trainers

Accreditation Task Force



Pedro Fernandes

Work has progressed with pilot experimentation with the Mozilla Open Badge system, probing for its functionality and limitations.

An inter-twinning of activity with the Standardization Committee is under way to ensure that our next steps in the choice of criteria for recognition of training efforts matches a set of possible standards that GOBLET may adopt and make public. Meanwhile, we are keen on cooperating with them in the definition of the plans for shared quality monitoring.

Train the school teacher Task Force



Marie-Claude Blatter, Celia van Gelder

The aim of this task force is to **share experiences** within and outside GOBLET and **accumulate materials** and **good examples of practice** for introducing bioinformatics to **high school teachers** and to the **public at large**.

One particular challenge related to this TF is that

- i) the material often is in the native language of the country that is providing it
- ii) there is no universal school biology curriculum



- A survey has been prepared to collect efforts of the GOBLET partners in this area.
- ***The survey has to be posted on the GOBLET website:***
<http://www.mygoblet.org/content/teaching-high-school-teacher-survey>
- *Send out invitation to the world (first GOBLET partners) to fill it in*

Follow-up activities

- Set up a document to provide insight into how high school bioinformatics teaching is organized in different countries.
- Identify key principles that are shared between most school curricula and that could be linked with a bioinformatics activity.
- Collect information of related to ongoing initiatives and projects in the world and set up liaisons with them (e.g. [European Schoolnet](#), [InGenious](#), [ELLS](#) or [Scientix](#)).
- > *We have already set up a document listing the different initiatives in EU.*
- Bioinformatics activities for the general public: the best practices and examples which are used by the different partners during exhibitions, open days and science fairs will be collected and made freely available.
- Discuss if the result of such an effort would be worthwhile writing a paper in PLOS CB

Capacity development



- Continued with curriculum development for new MSc degrees in Africa
- Mali started first MSc program in 2015 –used curriculum, some lecturers taught from distance
- Malawi is establishing program –finalising curriculum to submit to university
- Tunisia and others preparing for MSc programs
- Trained >450 people over 3 years, varied topics and audiences
- All course materials made available
- Developing eGenomics catalogue
- Developed training evaluation framework -HTrainDB

Tracking Training and Education



- Developing a system to track, monitor and evaluate the training development of students and staff

The screenshot shows the HTrainDB website. At the top, there is a dark navigation bar with the HTrainDB logo (a stylized 'H' with a DNA helix) and the text 'H3AFRICA TRAINING TRACKER'. Below the logo, the navigation bar contains several menu items: Home, HtrainDB Registration, Training Events, Reports & Evaluations, My Profile, H3Africa Fellows Club, H3Africa Mentorship Programme, and eGenomics Catalogue.

The main content area is divided into two columns. The left column is titled 'User login' and contains a login form with fields for 'Username *' and 'Password *', a 'Request new password' link, and a 'Log in' button. The right column is titled 'HTrainDB' and features a small graphic of the African continent with a DNA helix and the text 'H3'. Below the graphic, it says 'Welcome to HTrainDB' and 'A "One-Stop" Portal for H3Africa Trainees and Training Activities'. A paragraph follows, stating that H3Africa aims to strengthen research and training capacity in Africa, particularly among young African scientists. It mentions that various training efforts and activities will be supported by H3Africa, and that the large and diverse number of projects and potential trainees in this consortium makes it imperative to capture and store training efforts in a systematic and consistent manner. HTrainDB aims to:

- captures H3Africa training efforts and trainees' progress on a regular basis
- provides a web-portal for the funders the H3Africa Education Coordinated Working Group to track progress and adapt the H3Africa training efforts based on evidence.
- in future this resource is likely to provide the international scientific community information on lessons and successes from H3Africa training initiatives.

At the bottom left, the text reads 'Zahra Mungloo- Dilmohamud Shakuntala Baichoo –University of Mauritius'. At the bottom right, there is a red 'Read more' button.

Why HTrainDB?

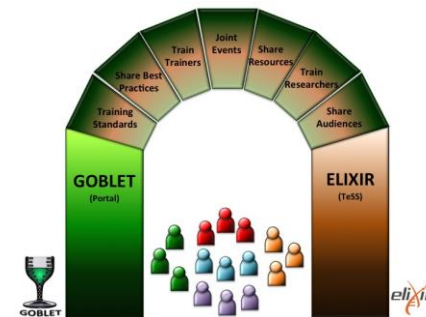


- A **major goal** of H3Africa Consortium is to **train the next generation of “genomics” scientists**
- Ongoing training is widespread, un-trackable, and therefore not easy to monitor/evaluate
- Need to establish a “one-stop” center for **training tracking, info & opportunities for trainees**
- A tool to **facilitate reflections & planning**: where we are, where we have come from, plan next steps

ELIXIR – GOBLET Collaboration strategy



- Published April 2015
- Collaboration between ELIXIR's and GOBLET's training portals
- Collaboration on train-the-trainer and train-the-researcher activities.
- Joint exploration of training 'accreditation' mechanisms
- Sharing of best practice, standards and expertise on professionalising bioinformatics training



Activities related to E-learning

ELIXIR – GOBLET collaboration

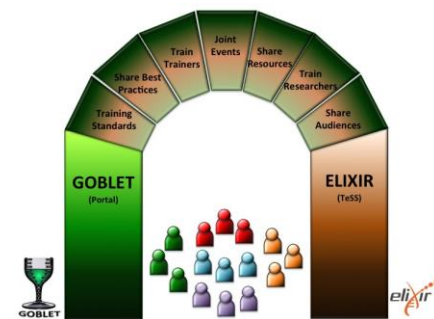


E-learning workshop 15-17 September 2015
Ljubljana

- Overview of e-learning systems, experiences, defining vocabulary

e-learning session in GOBLET AGM 19
November 2015, Cape Town

- Discuss Slovenia outcome
- Define **added value** GOBLET could offer for trainers



Exploring collaboration with RDA-CODATA – Data Science Summer schools



RDA-CODATA working group is organizing data science summer schools

- Build curriculum framework
- Build reusable modules
- Vanilla school : more generic, basic data science elements
- First edition summer 2016 in Trieste

The WG approached GOBLET, ELIXIR and H3Africa to collaborate on follow up school (another flavour 😊) about bioinformatics. First meeting took place, we will follow up.

RDA - Research Data Alliance & CODATA - International Council for Science :
Committee on Data for Science and Technology

Short and long term plans



- Consolidate e-learning with other activities
- Trainer portal development –what to include, avoid redundancy
- Run more trainer workshops
- Work with other training initiatives