Knowledge Transfer Programme (KTP)

Dr. Judit Kumuthini
Judit.kumuthini@cpgr.org.za
Knowledge Transfer Programme (KTP)

- KTP is a match-making platform that brings together seekers of expertise with providers of knowledge who are willing to transfer it in a project-based fashion.
The current African practice model mainly, for knowledge and skills transfer is not sustainable in a multidisciplinary field such as Bioinformatics and other “-omics” fields, i.e. sending one individual to be trained for few days is often not sufficient to apply it in the local context to his or her work. Similarly, when one or more trainers are brought in to train for a short period of time.

Thus local capacity to train scientists is not created in Africa, due to failure to transfer skills and knowledge into the broader community.

There is a lack of mechanisms to facilitate effective knowledge transfer, track trainees & trainers and monitoring skills development.

Lack of local capacity in Bioinformatics and omics in Africa contributes to the problem industry faces today should they need to stay abreath with current technologies to be competitive, innovative and to address market gap effectively.

**International training:**
- Training abroad is neither cost effective nor supports sustainable development.
- The cost of sending multiple people abroad for training is too high.
- Often candidates sent for longer time periods do not return.
- Trainers brought in for short term periods costs' are equivalent to sending trainees away.
- Further exacerbates the lack of local capacity development to train local scientists.
KTP assembles experts from around the world, to train upcoming researchers on specialized fields or projects i.e. omics in Africa.

KTP allows training within the resource-deprived environment and provides a wider experience for visiting experts.

Transfer of knowledge from higher to lower concentration for longer period of time e.g. 2-6 months.

Faster turnaround time of effective transfer of knowledge.

Due to the above, the programme cuts running costs, as more people are trained within their local environment.

You can take part in the programme as an expert, associate or host of a project.

Fosters collaboration between African scientists and international experts.

Creates technical capacity in Africa to train other African scientists

Online registration will be available at www.ktp.cpgr.org.za
### There are 6 key stakeholders involved in KTP

<table>
<thead>
<tr>
<th>Stake Holder</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knowledge seeker</td>
<td>Principal Investigator (PI) at a University or Head of Research in a private/public organisation with a need for skills development in a particular project.</td>
</tr>
<tr>
<td>Trainee</td>
<td>Researcher, student or employee in need of training in a project. A subset of trainees will form a local contingent of African trainers.</td>
</tr>
<tr>
<td>Expert</td>
<td>Researcher, professional or field application specialist with proven expertise in a relevant area of Computational Biology/Bioinformatics and/or Bio-Statistics.</td>
</tr>
<tr>
<td>Advisory Committee</td>
<td>Selected group of researchers and professionals with relevant expertise assembled to safeguard the quality of the expert/seeker/trainee matchmaking process.</td>
</tr>
<tr>
<td>Sponsors</td>
<td>Public, government, philanthropic or commercial organisation willing to support KTP in kind or in cash.</td>
</tr>
</tbody>
</table>
Matchmaking

Expert database

Knowledge transfer

Localised training

Trainer database will majority African-based in 10 years

Knowledge transfer sustained (and amplified) through local capacity development
## KTP Summary

<table>
<thead>
<tr>
<th>Stake Holder</th>
<th>Benefits</th>
</tr>
</thead>
</table>
| **PI & Project**                  | ✓ Access to expertise support to running of the project  
   ✓ Equipping project staff to effectively work on the project  
   ✓ Access to KTP facilities and resources for executing a project  
   ✓ Reduction in project running costs as a result as KTP collective funding  
   ✓ Quick and easy identification of support from expertise in KTP database  
   ✓ International future collaboration  
   ✓ Capacity developed locally                                             |
| **Trainee/Associate/Scientific Community** | ✓ Access to all the trainings offered locally  
   ✓ Opportunity to establish collaboration links with fellow associates or experts on the project  
   ✓ Faster turnaround time for the transfer of knowledge  
   ✓ Direct implementation of the acquired knowledge                      |
| **Hosting Institution**            | ✓ Increased profile for the hosting institution  
   ✓ Contribution to research and development in Africa                                                                               |
| **Expert**                        | ✓ International experience and exposure to African setting for doing research  
   ✓ Opportunity to share and transfer knowledge  
   ✓ Novel data set or problem  
   ✓ Potential publication, patent  
   ✓ Potential collaboration                                                  |