

## NEW BIOTECHNOLOGIES FOR PRECISION MEDICINE & PRECISION AGRICULTURE

### Outline Program

**Saturday, 3<sup>rd</sup> of November 2018 (CRASC Oran)**

09.00-09.30	<b>Reception and Registration</b>	
09.30-10.00	<b>Welcome session and introduction to the workshop</b>	<ul style="list-style-type: none"> <li>• <b>Prof. SEDDIKI M'hamed Mohamed Salah Eddine</b>, The General Secretary of the Ministry of Higher Education and Scientific Research.</li> <li>• <b>Prof. AOURAG Hafid</b>, General Director of the General Directorate for Scientific Research and Technological Development.</li> </ul>
10.00-10.30	<b>Coffee Break</b>	
10.30-12.30	<b>Ignite Stage Session:</b> Overview on Algerian and German Research activities	<ul style="list-style-type: none"> <li>• <b>Dr. Christian GARBE</b>, CEO, FIZ. Germany</li> <li>• <b>Prof. Messaoud ZITOUNI</b>, Responsible of the Algerian cancer plan</li> <li>• <b>Prof. Peter MOMBAERTS</b>, Director of Max Plank Research Unit for Neurogenetics.</li> <li>• <b>Dr. Ammar AZIOUNE</b>, Director of CRBt. Algeria</li> </ul>
12.00-13.45	<b>Lunch</b>	
13.45-16.30	<b>Algerian strategy development for using new Biotechnologies in precision medicine and precision agriculture.</b> <i>Discussion and exchange introduction to workshop topics</i>	<ul style="list-style-type: none"> <li>• <b>Prof. Nabil AOUFFEN</b> General Director of ATRSS</li> <li>• <b>Prof. Lynda. BENHADJA,- BOUTEKRABT</b> General Director of ATRBSA</li> <li>• <b>Dr. Ammar AZIOUNE</b>, Director of CRBt.</li> </ul>
<b>Sunday, 4th of November 2018 (Eden Hotel, Ayoun Turk, Oran)</b>		
09.00-10.30	<b>FIZ CONFERENCES</b> ( Conference Room: all participants )	
	<b>Coffee Break</b>	
<b>Workshop Sessions (by topics)</b>		
10.45-12.45	<ul style="list-style-type: none"> <li>• <b>Precision Medicine (NGS, bioinformatics)</b> <ul style="list-style-type: none"> <li>🔗 Establishment of a precision medicine workflow for the identification of actionable mutations in tissues biopsies from cancer patients including pathological examination, DNA and RNA extraction, NGS library preparation, sequencing and data analyses pipelines</li> <li>🔗 Setup of databases of cancer, rare diseases and collecting molecular and other information of the patients</li> <li>🔗 Genetic screening of patients with rare diseases</li> </ul> </li> </ul>	<u>Conference room</u>  Moderator: <b>Prof. Nabil AOUFFEN</b>
	<ul style="list-style-type: none"> <li>• <b>Liquid biopsies</b> <ul style="list-style-type: none"> <li>🔗 Wet lab workflows to generate NGS libraries from circulating DNA and small RNA to identify biomarkers based on mutations, epimutations or small RNA signatures in blood or urine</li> <li>🔗 Virus detection by nucleic acid amplification technology (NAT)</li> </ul> </li> </ul>	<u>Room 1</u>  Moderator: <b>Dr. Ammar AZIOUNE</b>
	<ul style="list-style-type: none"> <li>• <b>Smart Breeding / Precision Agriculture</b> <ul style="list-style-type: none"> <li>🔗 Use of NGS methods and bioinformatics for fast and cost efficient genes analyses for traits of interest</li> <li>🔗 Development of molecular markers in the DNA for smart breeding approaches</li> <li>🔗 Setup of screening facilities for high-throughput screening of plants for these markers (using PCR, mass spectrometry ...)</li> </ul> </li> </ul>	<u>Room 2</u>  Moderator: <b>Prof. Lynda BENHADJA-BOUTEKRABT</b>
13.00-14.30	<b>Lunch</b>	
14.30-16.00	<b>Workshop Sessions (2)</b>	
16.00-17.00	<b>Wrap-up and next steps</b>	