

## **Minutes of the WPEP Rust Pathology Meeting Nov 14 2012 NARC**

W-PEP wheat rust surveillance meeting was held on 14<sup>th</sup> November, 2012 at National Insect Museum, NARC, Islamabad. Dr. Rick Ward (CIMMYT) and Dr. Anjum Munir (CDRP) chaired the meeting and national partner institutional representatives from all provinces including AJK attended the meeting. Participants are listed below. Agreed deliverables with delivery dates and responsible party are shown in Table 1. Following are the main highlights of the meeting:

### **1. Survey:**

- Responsibilities (focal points listed who will ensure work is completed but it is expected that all will enlist assistance from other WPEP partners and/or CDRP):
  - Sindh: Khalil Khanzada CDRI-Karachi
  - KPK: CCRI, Mr. Irfan Shah
  - Punjab: Mr. Muhammad Hussain, AARI
  - Balochistan: Mr. Jahangir Khan, AZRC
  - AJK: Mr. Abdul Hafeez
- Dr. Atiq Rattu and Mr. Fayyaz from CDRP-NARC will backstop all survey work and fill gaps left in areas not covered.

### **2. Stem rust resistance gene functionality study:**

- CIMMYT, CDRP and Wheat coordinator will work together on stem rust resistance gene functionality study.

### **3. Trap Nurseries:**

- Dr. Atiq Rattu is managing and will report on these. It is agreed another set is to be found for planting at Karachi.

### **4. Karachi National Stem Rust Screening Nursery Plan:**

- Stem rust trap nursery will be planted at Karachi. This is a high priority for PARC, CIMMYT, and USDA. Mr. Khalil Khanzada has the role of ensuring this year's nursery is a success.
- As CDRP has only one set of SRTN which is not enough so Dr. Anjum Munir will send request to ICARDA for more sets of nursery.
- Mr. Khalil Khanzada will ensure to make the arrangements for the plantation of NWDSN and baseline resistance study lines (from wheat coordinator about 400) at Karachi.
- Khanzada will also develop a full planting plan for review and input from collaborators listed in Table 1.

### **5. Other:**

- Dr. Matt Rouse, USDA-ARS Cereal Disease Laboratory, hopes to visit the Karachi during the last week of February. Khalil/CDRP will confirm that this is a time when it is very likely that stem rust has developed and most materials will be at good stage for scoring.
- CIMMYT's R Ward expressed gratitude for the efforts of all present and emphasized the key role they will play in re-creating a living collection of rust cultures for all three rusts, while they expand on knowledge of the spatial-temporal distribution of wheat rusts throughout the year.

Table 1. Agreed deliverables etc.

| Date of delivery | Person who will accomplish this | Deliverable  |
|------------------|---------------------------------|--|
| 31 Dec 2012      | Dr. Anjum Munir (CDRP)          | Overall surveillance plan including: <ul style="list-style-type: none"> <li>• Revised survey forms,</li> <li>• Survey routes by province/area including timing, days required</li> <li>• Camera, GPS, shipping container (Yahya to help) other procurement needs</li> <li>• Protocols for surveys and sample handling</li> <li>• Work plans with timelines and budgets for each province/area including travel, supplies, communication/shipping costs, DPL, driver, vehicles, etc.</li> <li>• TCS account set up if possible</li> <li>• communication plans (for survey/samples but also for general crop/disease development)</li> <li>• clear identification of responsibilities per province/area and endorsement by competent authorities of the availability of staff time and financial support as needed</li> <li>• above to be organized as needed by Dr. Munir in iterative and consultative dialogue with all present at today's meeting (and Dr. Imtiaz).</li> </ul> |
| 4 December 2012  | Khalil Khanzada                 | Planting plan agreed by NCWP Coordinator, Dr. Munir, Dr. Mirza, Matt Rouse, and M Imtiaz for Karachi 12/13 stem rust nursery including: <ul style="list-style-type: none"> <li>• details of trials/nurseries               <ul style="list-style-type: none"> <li>○ entry lists, origin of seed</li> <li>○ plot size and seeds/plot</li> <li>○ layout of plots</li> <li>○ details of checks and spreaders (including dates of planting if different)</li> </ul> </li> <li>• misting system design, performance, and plans for use</li> <li>• inoculation plans (source, methods)</li> <li>• Overall work plan with timeline, budget, any approvals as needed.</li> </ul>   |
| 15 December 2012 | Dr. Anjum Munir                 | Ask if another SR nursery set can be sent from ICARDA (Turkey) and if not, to arrange that the key single gene genotypes are available for planting at Karachi.  |
| 2 December 2012  | Dr. Imtiaz (CIMMYT)             | Stem rust gene functionality resistance study designed and seed distributed to Sindh, included for Kenya, and possibly sent to USA for quarantine grow out and eventual field evaluation.  |

| Sr. No | Name                      | Institute   |
|--------|---------------------------|---|
| 1      | Dr. Rick Ward             | CIMMYT, INT. Pakistan   |
| 2      | Mr. Yahya Rauf            | CIMMYT, INT. Pakistan   |
| 3      | Dr. Javed Mirza           | CDRP-Murree   |
| 4      | Dr. Anjum Munir           | CDRP-NARC, Islamabad  |
| 5      | Dr. Atiq Rattu            | CDRP-NARC, Islamabad  |
| 6      | Dr. Yaqub Mujahid         | National wheat coordinator, NARC, Islamabad                                     |
| 7      | Mr. Abdul Hafeez          | Department of Agriculture, Govt of the Azad State of Jammu & Kashmir, Pakistan. |
| 8      | Mr. Muhammad Hussain      | Wheat Research Institute, AARI, Faisalabad                                      |
| 9      | Mr. Jahangir Khan         | Arid Zone Research Center (PARC), Quetta  |
| 10     | Mr. Khalil Ahmad Khanzada | CDRI-Karachi  |
| 11     | Mr. Irfan Shah            | CCRI-Pirsabak   |

**Table 2 Attendees.**