The JSRR's 20th Anniversary Symposium
The Latest Frontiers of Root Research in Asia
35th JSRR Biannual Meeting
November 5 - 6, 2011

Access to the Symposium Site

The Yayoi Auditorium is a beautiful wood- and glass-made construction located in the Yayoi campus of the University of Tokyo (http://www.a.u-tokyo.ac.jp/english/campus/). It takes only two minutes by walk from a subway station, "Todai mae" of Namboku Line (Tokyo Metro).

會場の最寄り駅は、東京メトロ（地下鉄）の南北線「東大前」駅です。

From Narita Airport
Rout 1:
Narita Airport = [Keisei Skyliner (55 min.) or an ordinal express (特急) Access Express (‘Access Tokkyu’ 70 min.]) => Nippori Station (日暮里) = [JR Yamanote line (toward Ikebukuro) (15 min.)] => Komagome Station (駒込) = [Namboku Line (5 min.)] => Todaimae Station (東大前)

Rout 2:
Narita Airport = [JR Narita Express (55 min.)] => Tokyo Station (東京) [See below for the transportation from Tokyo Station to the symposium site.]

From Haneda Airport
Haneda Airport = [Tokyo Monorail (20 min.)] => Hamamatsucho Station (浜松町) => [JR Yamanote line (toward Ueno) (35 min.)] => Komagome Station (駒込) = [Namboku Line (5 min.)] => Todaimae Station (東大前)

From Tokyo Railway Station
Rout 1: Tokyo Station (東京) = [JR Yamanote line (toward Ueno) (25 min.)] => Komagome Station (駒込) = [Namboku Line (5 min.)] => Todaimae Station (東大前)

Rout 2: Tokyo Station (東京) = [Tokyo Metro Maruno-uchi Line (15 min.)] => Korakuen Station (後楽園) = [Namboku Line (5 min.)] => Todaimae Station (東大前)

Registration desk
- November 5th (Sat.)  Second floor of Building 2  （農学部 2 号館 2 階）
- November 6th (Sun.)  Yayoi Auditorium (Yayoi Kodo  弥生講堂一条ホール)

Please also see the campus map in the next page.
# Outline of the Symposium

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<th>Nov. 5 / 11月5日（土）</th>
<th>Nov. 6 / 11月6日（日）</th>
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<td><strong>農学部2号館2階 第1講義室 Building 2</strong></td>
<td><strong>弥生講堂アネックス Yayoi Auditorium Annex</strong></td>
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<td><strong>弥生講堂一条ホール Ichijo Hall</strong></td>
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<td><strong>09:00～ Registration 受付</strong></td>
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<tr>
<td><strong>10:00～12:00 Special lectures 特別講演（東日本大震災）</strong></td>
<td><strong>09:30～11:45 Opening and invited lectures シンポジウム</strong></td>
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<tr>
<td><strong>12:00～13:30 Lunch 昼休み（本郷キャンパス安田講堂前地下の中央食堂がご利用頂けます）</strong></td>
<td><strong>12:00～13:50 Lunch 昼休み（本郷キャンパス安田講堂前地下の中央食堂がご利用頂けます）</strong></td>
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<tr>
<td><strong>13:30～15:00 JSRR Awards 2011年度の根研究会賞授賞式・受賞講演 15:15～17:15 Anniversary Ceremony 20周年記念式典</strong></td>
<td><strong>14:00～16:30 Invited lectures, comments and Closing</strong></td>
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<tr>
<td><strong>17:30～20:00 Mixer 20周年記念祝賀会</strong></td>
<td><strong>14:00～16:00 Removal of posters</strong></td>
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**Building 2**

**Yayoi Auditorium Annex**

**地下鉄東大前駅 Subway "Todai-mae"**

**Hongo street (本郷通り) 正門 Gate**

**Building 1**

Smoking area near the auditorium

**Yayoi Auditorium Ichijo Hall**

Registration and lectures on Nov. 6th
11月5日（土）のプログラム

＜特別講演＞ 10:00～12:00 農学部2号館2階 第1講義室

進行 森田茂紀（東京大学）
講演 笹川正樹氏（福島県いわき農林事務所）
福島県いわき市における東日本大震災の影響と対策
講演 根本圭介氏（東京大学大学院農学生命科学研究科）
東京大学農学部における震災復興支援研究
参加費無料・一般公開

＜授賞式と受賞講演＞ 13:30～15:00 農学部2号館2階 第1講義室

2011年度 根研究会賞 学術奨励賞2件
牧田直樹氏（京都大学大学院農学研究科）
樹木の微細根形態からみた森林炭素動態に関する研究
モハマド エムダドゥル ハック氏（Md. Emdadul Haque）
（農研機構 作物研究所 麦研究領域）
コムギ種子根の誘導的通気組織形成の形態・生化学的解析
参加費無料・一般公開

＜記念式典＞ 15:15～17:15 農学部2号館2階 第1講義室

進行 阿部 淳（東京大学）
挨拶 巽 二郎（京都工芸大学）
祝辞 Peter Gregory（ISRR 会長）
記念講演 大門弘幸（大阪府立大学）
農耕地の持続的生産機能と作物の根
名誉フェロー授与 荊住 犀 会員
参加費無料・一般公開

＜記念祝賀会＞ 17:30～20:00 弥生講堂アネックス Mixer at Yayoi Auditorium Annex
企画進行 村上敏文（東北農業研究センター）・小柳敦史（作物研究所）
研究集会懇親会・研究会賞受賞者祝賀会・シンポジウムミキサーを兼ねて行います。
懇親会費：3,000 円（当日、受付にて現金払い）

休憩室：弥生講堂アネックスをご利用頂けます。
Yayoi Auditorium Annex is available as a break room in daytime。
昼食：本郷キャンパスの安田講堂前の地下にある中央食堂が土日も営業しています。
土曜は、農学部周辺の小さな食堂もいくつか開いています。
Program of the JSRR's 20th Anniversary Symposium (Nov. 6, 2011)

The Latest Frontiers of Root Research in Asia

Moderator: Prof. Akira Yamauchi (Nagoya University, Japan)

09:30–11:45 Morning session

09:30–09:45 Opening remarks
Prof. Shigenori Morita (The University of Tokyo, Japan; Founder of JSRR)

09:45 Dr. Jun Abe (The University of Tokyo, Japan)
Keynote lecture: The necessity of root research in Asia

10:25 Prof. Yowhan Son (Korea University, Korea)
Invited lecture: Root biomass and respiration for Korean forests

11:05 Prof. Xiaojing Liu (Chinese Academy of Science, China)
Invited lecture: A primary study on the adapting mechanisms of cotton roots to saline soils

12:00–13:50 Lunch and Poster session (Poster session will be held in the Annex building)
12:30–13:10 Poster session core time A
13:10–13:50 Poster session core time B

14:00–17:00 Afternoon session

14:00 Prof. Xiyin Zhang (Chinese Academy of Science, China)
Invited lecture: Long-term monitoring root growth and soil water uptake by winter wheat for efficient water use in the North China Plain

14:40 Dr. Amelia Henry (International Rice Research Institute, Philippines)
Invited lecture: IRRI's drought stress research in rice with emphasis on roots: Accomplishments over the last 50 years

15:20 Prof. Anan Polthanee (Khon Kaen University, Thailand)
Invited lecture: Agricultural problems by waterlogging in Northeast Thailand

16:00 Importance of rice root research in Asian situations: A commentary
Dr. Roel Suralta  (Philippine Rice Research Institute, Philippines)

16:15 Comments from Moderator
Prof. Akira Yamauchi (Nagoya University, Japan)

16:30–16:45 Closing remarks
Prof. Jiro Tatsumi (Kyoto Institute of Technology, Japan; President of JSRR)
### Poster presentations (Titles and presenters)

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#### 35th JSRR Biannual Meeting  第35回根研究集会

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#### 20th Anniversary Symposium (The Latest Frontiers of Root Research in Asia)

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<td>Alexander Lux</td>
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<td>Kiyoshi Omine</td>
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<td>Fumitaka Shiotsu</td>
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<td>Katsuhiro Shiono</td>
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<td>The shift of isoelectric point of beta-1,3-glucanases possibly involved in aluminum toxicity in soybean root</td>
<td>Eri Soga</td>
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<td>Effect of rhizobia primed with naringenin on root development and nodulation in <em>Pisum sativum</em> L.</td>
<td>Satori Nakamura</td>
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<td>Morphological changes of <em>Sesbania rostrata</em> root under different soil properties</td>
<td>Atsushi Matsumura</td>
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<td>Respiration rate and sugar concentration of wheat root affected by waterlogging in field and by root zone hypoxia in hydroponic culture</td>
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<td>Variation for the capacity to form root aerenchyma and selection for highly aerenchyma forming lines in the rare teosinte <em>Zea nicaraguensis</em></td>
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<td>Root system development and hydraulic conductance in soybean plant grown under waterlogged conditions</td>
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<td>P28B</td>
<td>Dynamic regulation of the root hydraulic conductivity of barely plants under salinity/osmotic stress</td>
<td>Maki Katsuhara</td>
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<td>P29A</td>
<td>Water permeability of protoplasts derived from different portion of seminal root system in rice</td>
<td>Azumi Suganuma</td>
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**Dress code**

Informal and casual wears are welcome.
During the 20-year history of the JSRR, many studies have been performed on plant roots, contributing new evidence to root science and technology. The JSRR has played an important role in enlarging the international network of root studies as a member of the ISRR in Asia. I look forward to celebrating the JSRR's 20th Anniversary Symposium in the coming November. I hope that the root research network will continue to expand on an international scale, particularly in Asia, and produce many useful results.

Jiro Tatsumi
President of Japanese Society for Root Research
Professor, Kyoto Institute of Technology

The Japanese Society for Root Research (JSRR) was founded in 1992, and it has operated for two decades. We are holding an international symposium to develop a network of root researchers in Asia in order to advance efforts to secure healthy food, a safe environment, and peace. Come join us!

Shigenori Morita
Chair of Organizing Committee
Professor, The University of Tokyo

About JSRR

The Japanese Society for Root Research (JSRR; http://www.jsrr.jp/e/) was established in 1992 to enhance plant root research and communication among plant root scientists in Japan and elsewhere. Nearly 450 individuals are registered members of the JSRR. Over the course of its 20-year history, the JSRR has organized bi-annual domestic meetings and published the domestic newsletter Root Research. In addition, the JSRR organized several international symposiums. In particular, the JSRR co-organized the sixth Symposium of the International Society of Root Research (ISRR) with the ISRR in Nagoya City in 2001. Three hundred forty-one people from 34 countries participated in this symposium. The selected papers from the 6th ISRR Symposium were published as a special issue of Plant and Soil (Vol. 255, Issue. 1) and a book (Root: The dynamic interface between plant and the Earth, Kluwer Academic Publishers, 2003).

The JSRR began publishing an open access electronic journal, Plant Root (http://www.plantroot.org/), in 2007. Plant Root is the only international journal in the world that specializes in plant root science.

Organizing Committee’s contact address

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