

JIPB Workshop on Scientific Writing 2018

(First announcement)

Fujian Agricultural and Forestry University, Fuzhou

April 23-24, 2018

Scientific papers, which act as the central means of communication for researchers in connection with their community, are essential for the progress of scientific development. Indeed, the value of clear and effective communication within the scientific community through the dialogue of scientific journals has never been more apparent as local Chinese research and publications are increasingly cited on an international scale. However, in considering research aimed at international journals, reviewers are also becoming more and more concerned with not only the high quality of the submission's scientific content, but also the quality of its writing. As the competition increases, to secure publication in a high-ranking journal only the most succinct, language-sufficient, and logically crafted articles will suffice.

To match the demand, the *Journal of Integrative Plant Biology* (JIPB) and Fujian Agricultural and Forestry University will jointly hold a workshop on scientific writing as a part of a series of workshops held by JIPB. The speakers, Prof. William (Bill) Lucas from California University, Davis, and Prof. Leon Kochian from the University of Saskatchewan, Saskatoon, Canada, are renowned for their passion for teaching young students and for their highly informative speeches. They will outline both the rules of scientific writing and the workflows of high-ranking international journals to allow the audience to gain clear insight into the lengthy process of scientific paper writing, then plan and prepare accordingly.

All plant biology researchers, graduate students, undergraduate students are welcome to join in the workshop and each audience member will receive a certificate at the end of the workshop commemorating their participation. The workshop is limited to 150 attendees so please reserve your seats early!

1. Organizers

Journal of Integrative Plant Biology (JIPB)
Root Biology Center, Fujian Agricultural and Forestry University, Fuzhou

2. Date, Place and Official Language

Date: 23–24 April, 2018

Place: Fujian Agricultural and Forestry University, Fuzhou, China

Official Language: English

3. Honorary Speaker William J. Lucas: Experience & Qualifications



Prof. William J. Lucas

Distinguished International Plant Cell Biologist
Full Professor and Former Head of Plant Sciences in UC Davis
Former Assigning Editor of the *Plant Cell*,
Co-Editor-in-Chief of *JIPB*

Editorial Board Appointments:

Plant Physiology Editorial Board (1977 –1992)

Annual Review of Plant Physiology & Plant Molecular Biology Editorial Board (1985 – 1990)

Protoplasma Editorial Board (1985 – 2004)

Planta Editorial Board (1989 – 2005)

Journal of Theoretical Biology Associate Editor (1999 – 2003)

The Plant Cell Co-editor (2003 – 2006); Assigning/Senior Editor (2006 – 2015)

Open Plant Science Journal Editorial Board (2007 – present)

Journal of Plant Biology (Overseas Editor, 2007 – 2011)

Journal of Integrative Plant Biology (Senior Editor, 2007 – 2017);
Co-Editor-in-Chief (2017 – present)

Selected Publications (from over 200 papers):

Ham BK, **Lucas WJ** (2017) Phloem-mobile RNAs as systemic signaling agents. **Annu Rev Plant Biol** 68: 173–197

Zhang Z, Zheng Y, Ham BK, Chen J, Yoshida A, Kochian LV, Fei Z, **Lucas WJ** (2016) Vascular-mediated signalling involved in early phosphate stress response in plants. **Nat Plants** 2:16033 doi: 10.1038/nplants.2016.33

Zhang Z, Ham BK, **Lucas WJ** (2016) Systemic silencing: Mobile sRNA stabilizes genomes. **Nat Plants** 2:16020 doi: 10.1038/nplants.2016.20

Hu C, Ham BK, El-Shabrawi HM, Alexander D, Zhang D, Ryals J, **Lucas WJ** (2016)

Proteomics and metabolomics analyses reveal the cucurbit sieve tube system as a complex metabolic space. **Plant J** doi: 10.1111/tpj.13209

Cho WK, Hyun TK, Kumar D, Rim Y, Chen XY, Jo Y, Kim S, Lee KW, Park ZY, **Lucas WJ**, Kim JY (2015) Proteomic analysis to identify tightly-bound cell wall protein in rice calli. **Mol Cells** 38:685–9

Zhu X, Liang W, Cui X, Chen M, Yin C, Luo Z, Zhu J, **Lucas WJ**, Wang Z, Zhang D (2015) Brassinosteroids promote development of rice pollen grains and seeds by triggering expression of Carbon Starved Anther, a MYB domain protein. **Plant J** 82: 570–81

Zhang Z, Liao H, **Lucas WJ** (2014) Molecular mechanisms underlying phosphate sensing, signaling, and adaptation in plants. **J Integr Plant Biol** 56:192–220

Ham BK, Li G, Jia W, Leary JA, **Lucas WJ** (2014) Systemic delivery of siRNA in pumpkin by a plant PHLOEM SMALL RNA-BINDING PROTEIN 1-ribonucleo- protein complex. **Plant J** 80: 683–94

Shang Y, Ma Y, Zhou Y, Zhang H, Duan L, Chen H, Zeng J, Zhou Q, Wang S, Gu W, Liu M, Ren J, Gu X, Zhang S, Wang Y, Yasukawa K, Bouwmeester HJ, Qi X, Zhang Z, **Lucas WJ**, Huang S (2014) Plant science. Biosynthesis, regulation, and domestication of bitterness in cucumber. **Science** 346: 1084–1088

Han X, Hyun TK, Zhang M, Koh E, Kang BH, **Lucas WJ**, Kim JY (2014) Auxin-callose mediated plasmodesmal gating is essential for effective auxin gradient formation and signaling. **Dev Cell** 28: 132–146

Qi J, Liu X, Shen D, Miao H, Xie B, Li X, Zeng P, Wang S, Shang Y, Gu X, Du Y, Li Y, Lin T, Yuan J, Yang X, Chen J, Chen H, Xiong X, Huang K, Fei Z, Mao L, Tian L, Städler T, Renner SS, Kamoun S, **Lucas WJ**, Zhang Z, Huang S (2013) A genomic variation map provides insights into the genetic basis of cucumber domestication and diversity. **Nat Genet** 45: 1510–1515

Lucas WJ, Groover A, Lichtenberger R, Furuta K, Yadav SR, Helariutta Y, He XQ, Fukuda H, Kang J, Brady SM, Patrick JW, Sperry J, Yoshida A, Lopez-Millan AF, Grusak MA, Kachroo P (2013) The plant vascular system: Evolution, development and functions. **J Integr Plant Biol** 55: 294–388

Li R, Liu P, Wan Y, Chen T, Wang Q, Mettbaach U, Baluška F, Samaj J, Fang X, **Lucas WJ**, Lin J (2012) A membrane microdomain-associated protein, *Arabidopsis* Flot1, is involved in a clathrin-independent endocytic pathway and is required for seedling development. **Plant Cell** 24: 2105–2122

Guo S, Zhang J, Sun H, Salse J, **Lucas W J**, Zhang H, Zheng Y, et al. (2012) The draft genome of watermelon (*Citrullus lanatus*) and resequencing of 20 diverse accessions. **Nat Genet** 45: 51–58

- Li P, Ham BK, **Lucas WJ** (2011) CmRBP50 phosphorylation is essential for assembly of a stable phloem-mobile high-affinity ribonucleoprotein complex. **J Biol Chem** 286: 23142–23149
- Ruiz-Medrano R, Xoconostle-Cázares B, Ham BK, Li G, **Lucas WJ** (2011) Vascular expression in *Arabidopsis* is predicted by the frequency of CT/GA-rich repeats in gene promoters. **Plant J** 67: 130–144
- Huang S, Li R, Zhang Z, Li L, Gu, X, Fan W, **Lucas WJ**, et al. (2009) The genome of the cucumber, *Cucumis sativus* L. **Nat Genet** 41: 1275–1281
- Ham BK, Brandom J, Xoconostle-Cazares B, Ringgold V, Lough TJ, **Lucas WJ** (2009) Polypyrimidine tract binding protein, CmRBP50, forms the basis of a pumpkin phloem ribonucleoprotein complex. **Plant Cell** 21: 197–215
- Lin MK, Belanger H, Lee YJ, Varkonyi-Gasic E, Taoka KI, Miura E, Xoconostle-Cázares B, Gendler K, Jorgensen RA, Phinney B, Lough TJ, **Lucas WJ** (2007) FT protein may act as the long-distance florigenic signal in the cucurbits. **Plant Cell** 19: 1488–1506
- Yoo BC, Kragler F, Varkonyi-Gasic E, Haywood V, Archer-Evans S, Lee YM, Lough TJ, **Lucas WJ** (2004) A systemic small RNA signaling system in plants. **Plant Cell** 16: 1979–2000
- Lee JY, Yoo BC, Rojas M, Gomez Ospina N, Staehelin LA, **Lucas WJ** (2003) Selective trafficking of non-cell-autonomous proteins mediated by NtNCAPP1. **Science** 299: 392–396
- Foster TM, Lough TJ, Emerson SJ, Lee RH, Bowman JL, Forster RLS, **Lucas WJ** (2002) A surveillance system regulates selective entry of RNA into the shoot apex. **Plant Cell** 14: 1497–1508
- Lucas WJ**, Yoo BC, Kragler F (2001) RNA as a long-distance information macromolecule in plants. **Nat Rev Mol Cell Biol** 2: 849–857
- Kragler F, Monzer J, Xoconostle-Cázares B, **Lucas WJ** (2000) Peptide antagonists of the plasmodesmal macromolecular trafficking pathway. **EMBO J** 19: 2856–2868
- Xoconostle-Cázares B, Xiang Y, Ruiz-Medrano R, Wang HL, Monzer J, Yoo BC, McFarland KC, Franceschi VR, **Lucas WJ** (1999) Plant paralog to viral movement protein potentiates transport of mRNA into the phloem. **Science** 283: 94–98
- Rojas MR, Noueir AO, **Lucas WJ**, Gilbertson RL (1998) Bean dwarf mosaic geminivirus movement proteins recognize DNA in a form- and size-specific manner. **Cell** 95: 105–113
- Jorgensen RA, Atkinson RG, Forster RLS, **Lucas WJ** (1998) An RNA-based information superhighway in plants. **Science** 279: 1486–1487
- Lucas WJ**, Bouche-Pillon S, Jackson DP, Nguyen L, Baker L, Ding B, Hake S (1995) Selective trafficking of KNOTTED1 and its mRNA through plant plasmodesmata. **Science** 270: 1980–1983

Noueiry AO, **Lucas WJ**, Gilbertson RL (1994) Two Proteins of a plant DNA virus coordinate nuclear and plasmodesmal transport. **Cell** 76: 925–932

Schachtman DP, Schroeder JI, **Lucas WJ**, Anderson JA, Gaber RF (1992) Expression of an inward-rectifying potassium channel by the *Arabidopsis KAT1* cDNA. **Science** 258: 1654–1658

Wolf S, Deom CM, Beachy RN, and **Lucas WJ** (1991) Plasmodesmatal function is probed using transgenic tobacco plants that express a virus movement protein. **Plant Cell** 3: 593–604

Wolf S, Deom CM, Beachy RN, **Lucas WJ** (1989) Movement protein of tobacco mosaic virus modifies plasmodesmatal size exclusion limit. **Science** 246: 377–379

4. Honorary Speaker Leon V. Kochian: Experience & Qualifications



Prof. Leon Kochian

Distinguished International Plant Molecular Physiologist

Associate Director, Global Institute for Food Security

Full Professor of University Saskatchewan

Senior Editor, JIPB

Editorial Board Appointments:

Plant Physiology Monitoring Editor (1990–1992 and 1995 – present)

Plant and Soil Editorial Board (1994 – 2000)

Planta Editorial Board (1995–2001)

Annual Review of Plant Physiology Editorial Board (1996–2001)

Journal of Phytoremediation Editorial Board (1997–2003)

Journal of Integrative Plant Biology Associate Editor (2010–present)

Selected Publications (from over 200 papers):

Wang Y, Li R, Li D, Jia X, Zhou D, Li J, Ly SM, Hou S, Huang Y, **Kochian LV**, Liu J (2017) NIP1;2 is a plasma membrane-localized transporter mediating aluminum uptake, translocation, and tolerance in *Arabidopsis*. **Proc Natl Acad Sci USA** 114: 5047–5052

Zhang Z, Zheng, Ham B-K, Chen J, Yoshida A, **Kochian LV**, Fei Z, Lucas WJ. (2016) Vascular-mediated signaling involved in early phosphate stress response in plants. **Nat Plants** 2: 16033

Piñeros MA, Larson BG, Shaff JE, Schneider DJ, Falcão AX, Yuan L, Clark RT, Craft EJ, Davis TW, Pradier PL, Shaw NM, Assaranurak I, McCouch SR, Sturrock C, Bennett M, **Kochian LV** (2016) Evolving technologies for growing, imaging, and analyzing 3D root system architecture of crop plants. **J Integrative Plant Biol** 58: 230–241

Kochian LV (2016) Root architecture. **J Integrative Plant Biol** 58: 190–192.

Kochian LV, Piñeros MA, Liu J, Magalhaes JV. (2015) Plant adaptation to Acid soils: The molecular basis for crop aluminum resistance. **Annu Rev Plant Biol** 66:571–98

Hufnagel B, de Sousa SM1, Assis L, Guimaraes CT, Leiser W, Azevedo GC, Negri B, Larson BG, Shaff JE, Pastina MM, Barros BA, Weltzien E, Rattunde HF, Viana JH, Clark RT, Falcão A, Gazaffi R, Garcia AA, Schaffert RE, **Kochian LV**, Magalhaes JV2 (2014) Duplicate and conquer: Multiple homologs of PHOSPHORUS-STARVATION TOLERANCE1 enhance phosphorus acquisition and sorghum performance on low-phosphorus soils. **Plant Physiol** 166:659–77

Zhai Z, Gayomba SR, Jung HI, Vimalakumari NK, Piñeros M, Craft E, Rutzke MA, Danku J, Lahner B, Punshon T, Guerinot ML, Salt DE, **Kochian LV**, Vatamaniuk OK. (2014) OPT3 is a Phloem-Specific iron transporter that is essential for systemic iron signaling and redistribution of iron and cadmium in *Arabidopsis*. **Plant Cell** 26:2249–2264

Li JY, Liu J, Dong D, Jia X, McCouch SR, **Kochian LV** (2014) Natural variation underlies alterations in Nramp aluminum transporter (NRAT1) expression and function that play a key role in rice aluminum tolerance. **Proc Natl Acad Sci USA** 111:6503–8

Milner MJ, Mitani-Ueno N, Yamaji N, Yokosho K, Craft E, Fei Z, Ebbs S, Clemencia Zambrano M, Ma JF, **Kochian LV** (2014) Root and shoot transcriptome analysis of two ecotypes of *Noccaea caerulescens* uncovers the role of NcNramp1 in Cd hyperaccumulation. **Plant J** 78:398–410

Milner MJ, Pence NS, Liu J, **Kochian LV** (2014) Identification of a novel pathway involving a GATA transcription factor in yeast and possibly in plant Zn uptake and homeostasis. **J Integr Plant Bio** 56:271–80.

Liu J, Piñeros MA, **Kochian LV** (2014) The role of aluminum sensing and signaling in plant aluminum resistance. **J Integr Plant Biol** 56:221–30

Ligaba A, Dreyer I, Margaryan A, Schneider DJ, **Kochian LV**, Piñeros MA (2013) Functional, structural and phylogenetic analysis of domains underlying the Al-sensitivity of the aluminium-activated malate/anion transporter, TaALMT1. **Plant J** 76: 766–780

Sivaguru M, Liu JL, **Kochian LV** (2013) Targeted expression of SbMATE in the root distal transition zone is responsible for sorghum aluminum resistance. **Plant J** 76: 297–307

Schroeder JI, Delhaize E, Frommer WB, Guerinot ML, Harrison MJ, Herrera-Estrella L, Horie T, **Kochian LV**, Munns R, Nishizawa NK, Tsay YF, Sanders D (2013) Using membrane transporters to improve crops for sustainable food production. **Nature** 497: 60–66

Maron LG, Guimarães CT, Kirst M, Albert PS, Birchler JA, Bradbury P, Buckler ES, Coluccio AE, Danilova TV, Kudrna D, Magalhaes JV, Piñeros MA, Schatz MC, Wing R, **Kochian LV** (2013) Aluminum tolerance is associated with higher MATE1 gene copy-number in maize. **Proc Natl Acad Sci USA** 110: 5241–5246

Fang S, Clark RT, Zheng Y, Iyer-Pascuzzi AS, Weitz JS, **Kochian LV**, Edelsbrunner H, Liao H, Benfey PN (2013) Evidence for genotype-dependent recognition by rice roots. **Proc Natl Acad Sci USA** 110: 2670–2675

Famoso AN, Zhao K, Clark RT, Tung C-W, Wright MH, Bustamante C, **Kochian LV**, McCouch SR (2011) Genetic architecture of aluminum tolerance in rice (*O. sativa*) determined through genome-wide association analysis and QTL mapping. **PLoS Genet** 7: e1002221

Maron LG, Piñeros MA, Guimarães CT, Magalhaes JV, Pleiman JK, Mao C, Shaff J, Belicuas SN, **Kochian LV** (2010) Two functionally distinct members of the MATE (multi-drug and toxic compound extrusion) family of transporters potentially underlie two major aluminum tolerance QTLs in maize. **Plant J** 5: 728–740

Liu J, Magalhaes JV, Shaff J, **Kochian LV** (2009) Aluminum-activated citrate and malate transporters from the MATE and ALMT families function independently to confer Arabidopsis aluminum tolerance. **Plant J** 3: 389–399

Piñeros MA, Cançado GM, **Kochian LV** (2008) Novel properties of the wheat aluminum tolerance organic acid transporter (TaALMT1) revealed by electrophysiological characterization in *Xenopus Oocytes*: Functional and structural implications. **Plant Physiol** 4: 2131–2146

Maron LG, Kirst M, Mao C, Milner MJ, Menossi M, **Kochian LV** (2008) Transcriptional profiling of aluminum toxicity and tolerance responses in maize roots. **New Phytol** 1: 116–128

Piñeros MA, Cançado GM, Maron LG, Lyi SM, Menossi M, **Kochian LV** (2008) Not all ALMT1-type transporters mediate aluminum-activated organic acid responses: The case of ZmALMT1 - an anion-selective transporter. **Plant J** 2: 352–367

Magalhaes JV, Liu J, Guimarães CT, Lana UG, Alves VM, Wang YH, Schaffert RE, Hoekenga OA, Piñeros MA, Shaff JE, Klein PE, Carneiro NP, Coelho CM, Trick HN, **Kochian LV** (2007) A gene in the multidrug and toxic compound extrusion (MATE) family confers aluminum tolerance in sorghum. **Nat Genet** 9: 1156–1161

Küpper H, Seib LO, Sivaguru M, Hoekenga OA, **Kochian LV** (2007) A method for cellular localization of gene expression via quantitative in situ hybridization in plants. **Plant J** 1: 159–175

Lu S, Van Eck J, Zhou X, Lopez AB, O'Halloran DM, Cosman KM, Conlin BJ, Paolillo DJ, Garvin DF, Vrebalov J, **Kochian LV**, Küpper H, Earle ED, Cao J, Li L (2006) The cauliflower *Or* gene encodes a DnaJ cysteine-rich domain-containing protein that mediates high levels of beta-carotene accumulation. **Plant Cell** 12: 3594–3605

Hoekenga OA, Maron LG, Piñeros MA, Cançado GM, Shaff J, Kobayashi Y, Ryan PR, Dong B, Delhaize E, Sasaki T, Matsumoto H, Yamamoto Y, Koyama H, **Kochian LV** (2006) *AtALMT1*, which encodes a malate transporter, is identified as one of several genes critical for aluminum tolerance in *Arabidopsis*. **Proc Natl Acad Sci USA** 25: 9738–974

Liao H, Wan H, Shaff J, Wang X, Yan X, **Kochian LV** (2006) Phosphorus and aluminum interactions in soybean in relation to aluminum tolerance. Exudation of specific organic acids from different regions of the intact root system. **Plant Physiol** 2: 674–684

Kochian LV, Hoekenga OA, Pineros MA (2004) How do crop plants tolerate acid soils? Mechanisms of aluminum tolerance and phosphorous efficiency. **Annu Rev Plant Biol** 55: 459–493

Garg AK, Kim JK, Owens TG, Ranwala AP, Choi YD, **Kochian LV**, Wu RJ (2002) Trehalose accumulation in rice plants confers high tolerance levels to different abiotic stresses. **Proc Natl Acad Sci USA** 2: 15898–15903

Pence NS, Larsen PB, Ebbs SD, Letham DL, Lasat MM, Garvin DF, Eide D, **Kochian LV** (2000) The molecular physiology of heavy metal transport in the Zn/Cd hyperaccumulator *Thlaspi caerulescens*. **Proc Natl Acad Sci USA** 9: 4956–4960

Jones DL, **Kochian LV** (1995) Aluminum inhibition of the Ins(1,4,5)P₃ signal transduction pathway in wheat roots: A role in aluminum toxicity? **Plant Cell** 7: 1913–1922

Huang JW, Grunes DL, **Kochian LV** (1994) Calcium transport in right-side-out plasma membrane vesicles isolated from wheat roots. Characterization of a voltage-gated calcium channel. **Proc Natl Acad Sci USA** 91: 3473–3477

Anderson JA, Huprikar SS, **Kochian LV**, Lucas, WJ, RF Gaber RF (1992) Functional expression of a probable *Arabidopsis thaliana* potassium channel in *S. cerevisiae*. **Proc Natl Acad Sci USA** 89: 3736–3740

Kochian LV, Lucas WJ (1982) Potassium transport in corn roots. I. Resolution of kinetics into a saturable and linear component. **Plant Physiol** 70: 1723–1731

5. Registration

- 1) A sum of RMB 700.00 for each participant will be charged. Registration fees

should be paid to:

Account No: 13002114040001429

Bank: Agricultural Bank of China Fujian Branch Hualin Sub Branch

Address: No. 177 Hualin Road, Fuzhou, Fujian, China

Swift code: ABOCCNBJ130 HUALIN SUB-BR

Account holder: Fuzhou Zhonghexin Huiyi Fuwu Co., Ltd.

2) Please fill in the registration form (see attached) and email to Haiyan Zhang at wanan0601@163.com by March 31, 2018.

6. Accommodation Information

The Organizers will provide lunch on April 23 and 24. All other accommodation costs will be covered by the attendee.

Contact Details:

Haiyan Zhang

Root Biology Center

Fujian Agriculture and Forestry University, Fuzhou, China

Tel: 0591-88260952

E-mail: wanan0601@163.com

Website: <http://net.fafu.edu.cn/hist/main.htm>

7. Workshop Registration

Name		Job Title	
Institution			
Contact Information			
Telephone			
E-mail			

Note: Please fill in the registration form and return to **Haiyan Zhang** at wanan0601@163.com by March 31st, 2018.