

平成28年度成果(論文等)一覧

論文情報
Gantseteg B., Ishizuka, M., Kurosaki Y., and Mikami M.: Topographical and hydrological effects on meso-scale vegetation in desert steppe, Mongolia. Journal of Arid Land, 9(1): 132-142. doi:10.1007/s40333-016-0090-z, 2017.
Sekiyama, T. T., K. Yumimoto, T. Y. Tanaka, T. Nagao, M. Kikuchi, and H. Murakami, 2016: Data Assimilation of Himawari-8 Aerosol Observations: Asian Dust Forecast in June 2015, SOLA, 12, 86–90.
Yumimoto, K., T. Nagao, M. Kikuchi, T. T. Sekiyama, その他10名, 2016: Aerosol data assimilation using data from Himawari-8, a next-generation geostationary meteorological satellite, Geophys. Res. Lett., 43, 5886–5894.
Yumimoto, K., H. Murakami, T. Y. Tanaka, T. T. Sekiyama, A. Ogi, and T. Maki, 2016: Forecasting of Asian Dust Storm during 10-13 May in 2011 with an Ensemble-based Data Assimilation System, Particuology, 28, 121–130.
関山剛, 2017: 大気化学データ同化, 大気化学研究, 36, 036A04.
Koji Miyamoto, Masahiro Fujita, Matthew R. Shenton, Shota Akashi, Chizu Sugawara, Arisa Sakai, Kiyotaka Horie, Morifumi Hasegawa, Hiroshi Kawaide, Wataru Mitsuhashi, Hideaki Nojiri, Hisakazu Yamane, Nori Kurata, Kazunori Okada and Tomonobu Toyomasu (2016) Evolutionary trajectory of phytoalexin biosynthetic gene Jun Takeuchi, Masanori Okamoto, Ryosuke Mega, Yuri Kanno, Toshiyuki Ohnishi, Mitsunori Seo, Yasushi Todoroki: Abscinazole-E3M, a practical inhibitor of abscisic acid 8'-hydroxylase for improving drought tolerance. Scientific Reports 2016, 6, 37060.
苗川博史. モンゴル夏営地における羊・山羊群の放牧行動と音声の調査. SHEEP JAPAN.101:8-10. 2017
世良徹朗・高橋凌二・高山成・木村玲二・劉佳啓・森山雅雄・矢野裕幸, 鳥取砂丘の景観保全活動前後における植被率分布と砂移動回復の状況について, 日本農業気象学会近畿支部講演論文集, 9, 2-7, 2016年11月.
Iijima, Y., Hori, M. E., Cold Air Formation and Advection over Eurasia during Dzdud" Cold Disaster Winters in Mongolia. Natural Hazards, in online. DOI: 10.1007/s11069-016-2683-4, 2016.
M. Yamada, C. Kuroda and H. Fujiyama, "Growth promotion by sodium in Amaranthaceae plants", Journal of Plant Nutrition, 2016, Vol. 39, pp1186-1193
Takashi Baba "Differences in short-term responses of ion transport related to salt-tolerance of rice and tomato species", Sand Dune Research, 2017, Vol. 63, pp103-112
Takashi Baba*, Hiroko Aome*, Saki Shirai* and Mina Yamada (*equally contributed), "Evaluation of Na-absorption ability of halophilic and salt-loving plant species. Sand Dune Research", 2017, Vol. 63, Pp121-126.
T. Baba, Y. Sato, Y. Katsube, T. Kuroda, and H. Fujiyama: Relationship between plant responses to high Na and ameliorative effects of supplemental K and Ca. Journal of Plant Nutrition, 2017, Vol. 40, pp33-39
馬場貴志・白井早紀・藤山英保, "フアイトレメディエーションによる沿岸域の富栄養化防止—Na・N・P濃度が好塩性植物の生育に及ぼす影響—", 2016生態工学会年次大会発表論文集, 2016, pp67-68
Zhong, Wang, Tani, Guo, Chittenden, Yin, Sun, Matsumura(2016). A Modified Aerosol Free Vegetation Index Algorithm for Aerosol Optical Depth Retrieval Using GOSATTANSO-CAI Data, Remote sensing, DOI:10.3390/rs8120998
Yin, Wang, Xiao, Tani, Zhong, Sun(2017). Study on spatial distribution of crop residue burning and PM2.5 change in China, Environmental Pollution, 220, Part A, 204-221
Iwayama K, Aisaka Y, Kutsuna N, Nagano AJ (2017) FIT: Statistical modeling tool for transcriptome dynamics under fluctuating field conditions., Bioinformatics, in press
Sasaki, T., Yoshihara, Y., Takahashi, M., Byambatsetseg, L., Futahashi, R., Nyambayar, D. and Suyama, Y. (2017) Distinct responses and mechanisms of ecosystem function following experimental species loss scenarios. Oecologia
深澤遊・吉原佑・松木悠 (2016)「地上と地下のつながりの生態学-生物間相互作用から環境変動まで」東海大学出版会
Mohammed, I.A., Tsuchimoto, S., Sakai, H., Wada, N. and Fukui, K. High-frequency Shoots Regeneration of an Oil Crop, Simmondsia chinensis (Link) Schneider Using Axillary Buds. Tropical Agriculture and Development (in press)
Mohammed, I.A., Tsuchimoto, S., Sakai, H., Wada, N. and Fukui, K. Agrobacterium-Mediated Transformation of Jjoba [Simmondsia chinensis (Link.) Schneider]. Tropical Agriculture and Development (in press)
Wada, N., Kazuki, Y., Kazuki, K., Inoue, T., Fukui, K. and Oshimura, M. Maintenance and Function of a Plant Chromosome in Human Cells. ACS Synthetic Biology DOI: 10.1021/acssynbio.6b00180
Kashima, K., H. Takamura and T. Tiyip, Global climate change and human correspondence at central Asia and Mongolia, Human Being and Ecological Environment of Central Asia, in press.
KAYAMA M, YAMANAKA T (2016) Growth characteristics of ectomycorrhizal seedlings of Quercus glauca, Quercus salicina, Quercus myrsinaefolia, and Castanopsis cuspidate planted in calcareous soil. Forests 7:266
Samejima, H., Mustafa A.E.L., Babiker, A.G.T., Sugimoto, Y.: Identification of Striga hermonthica resistant upland rice varieties in Sudan and their resistance phenotypes, Frontiers in Plant Science doi:10.3389/fpls.2016.00634, 2016 May.
Samejima, H., Babiker, A.G.T., Hirosato Takikawa, Mitsuru Sasaki, Sugimoto, Y.: Practicality of suicidal germination induction for controlling Striga hermonthica, Pest Management Science, 72 (11), 2035-2042, 2016 Oct.
鯨島啓彰、滝川浩郷、杉本幸裕:根寄生雑草防除に向けた自殺発芽誘導剤の開発と実証試験、バイオサイエンスとバイオインダストリー, 74 (4), 314-315, 2016 Jul.
杉本幸裕、滝川浩郷:根寄生雑草の潜在的危険性と生活環に着目した防除の試み、学術の動向, 21 (8), 18-23, 2016 Aug.
杉本幸裕、米山弘一、特集ストリゴラクトン はじめに、植物の生長調節, 51 (2), 88-90, 2016 Dec.
鯨島啓彰、滝川浩郷、杉本幸裕、根寄生雑草の生存戦略の化学的解明と防除への応用、関東雑草研究会報, 27, 5-19, 2016.
Hyodo F, Haraguchi TF, Hirobe M, Tateno R Changes in above- and belowground properties of a cool-temperate secondary forest during natural succession. Journal of Forest Research in press
Hishi, T., Tateno, R., Fukushima, K., Fujimaki, R., Itoh, M., & Tokuchi, N. Changes in the anatomy, morphology, and mycorrhizal infection of fine root systems of Cryptomeria japonica in relation to stand ageing. Tree Physiology in press
Kerfahi, D., Tateno, R., Takahashi, K., Tripathi BM, Cho, HJ, Kim, H, Adams JM. Development of Soil Bacterial Communities in Volcanic Ash Microcosms in a Range of Climates. Microbial Ecology in press 2016
Urakawa R., (他22名と共著. 第4著者) Contributing factors of soil N mineralization and nitrification rates of forest soils in the Japanese archipelago. Forest Ecology and Management 361:382–396 2016
A. Ito, D. Sakamoto, A. Itai, T. Nishijima, N. Oyama-Okubo, Y. Nakamura, T. Moriguchi and I. Nakajima (2016): Effects of GA3+4 and GA4+7 Application Either Alone or Combined with Prohexadione-Ca on Fruit Development of Japanese Pear 'Kosui'. The Horticulture Journal 85:201-208.
Akashi, K.*, Yoshimura, K., Kajikawa, M., Hanada, K., Kosaka, R., Kato, A., Nanasato, Y., Tsujimoto, H., Yokota, A. (2016) Potential involvement of drought-induced Ran GTPase CLRan1 in root growth enhancement in a xerophyte wild watermelon. Bioscience, Biotechnology, and Biochemistry, 80, 1907-1916.
Akashi, K.*, Mifune, Y., Morita, K., Ishitsuka, S., Tsujimoto, H., Ishihara, T. (2017) Spatial accumulation pattern of citrulline and other nutrients in immature and mature watermelon fruits. Journal of the Science of Food and Agriculture (IF=2.076), 97(2), 479-487.
Ihahashi, S., Uno, I., Osada, K., Kamiguchi, K., Yamamoto, S., Tamura, K., Wang, Z., Kurosaki, Y., and Kanaya, Y., Nitrate transboundary heavy pollution over East Asia in winter, Atmospheric Chemistry and Physics, 17, 3823–3843, acp-2016-879, 2017.
長田和雄、「黄砂沈着量」、鳥取大学乾燥地研究センター (監修)、黒崎泰典/黒沢洋一/篠田雅人/山中典和 (編)、「黄砂-健康・生活環境への影響と対策」、p. 60-63、丸善出版、2016.
T. Maki, Y. Kurosaki, K. Onishi, K.C. Lee, S.B. Pointing, D. Jugder, N. Yamanaka, H. Hasegawa, M. Shinoda, Variations in the structure of airborne bacterial communities in Tsogt-Ovoo of Gobi Desert area during dust events, Air Quality, Atmosphere and Health, 10, 249-260 (2016). 査読有, DOI: 10.1007/s11869-016-0430-3
T. Maki, K. Hara, A. Iwata, K.C. Lee, K. Kawai, K. Kai, F. Kobayashi, S.B. Pointing, S. Archer, H. Hasegawa, Y. Iwasaka Variations of airborne bacterial communities at high altitudes in response dust events, over Asian-dust downwind area (Japan). Atmospheric Chemistry and Physics discussion, acp-2016-1095
T. Maki, A. Ishikawa, T. Mastunaga, S.B. Pointing, Y. Saito, T. Kasai, K. Watanabe, K. Aoki, A. Horiuchi, K.C. Lee, H. Hasegawa, Y. Iwasaka, Atmospheric aerosol deposition influences marine microbial communities in oligotrophic surface waters of the western Pacific Ocean., Deep-Sea Research Part I, 118, 37-45 (2016). 10.1016/j.dsr.2016.10.002
牧輝弥, 市瀬孝道, 小林史尚, 岩坂泰信, アジア大陸から越境輸送されてくる大気バイオエアロゾルの2つの顔, 感染症学雑誌, (査読無) 90(臨時増刊号), p.134 (2016)
牧輝弥, 低温環境の科学事典, 河村公隆 編集, 朝倉書籍 (査読無) 2016年07月25 (2016)
Kinugasa T, Hozumi Y, Nishizima H, Ishitobi A, Miyawaki M. (2016) Germination characteristics of early successional annual species after severe drought in the Mongolian steppe. Journal of Arid Environments 130:49-53
Holbrook-Smith D, Toh S, Tsuchiya Y, McCourt P. (2016) Small-molecule antagonists of germination of the parasitic plant Striga hermonthica. Nature Chemical Biology 12(9):724-9. doi: 10.1038/nchembio.2129.
1. 萩原伸也, 吉村征彦, 土屋雄一郎, 木下俊則, 伊丹健一郎. 魔女の呪いを解く分子—寄生植物“ストライガ”の発芽を制御する分子を開発 (2016). 化学 71(5):35-39.
2. 土屋雄一郎. 植物ホルモン・ストリゴラクトンをめぐる生物戦略 (2016). 理科通信 サイエンスネット(数研出版) 57号:2-5.
Kudo, Y., K. Noborio, N. Shimoozono, R. Kurihara, and H. Minami. 2016: Greenhouse gases emission from paddy soil during the fallow season with and without winter flooding in central Japan. Paddy and Water Environment. DOI: 10.1007/s10333-016-0523-5.
Tadaomi Saito, Hiroshi Yasuda, Miyu Sakurai, Kumud Acharya, Sachiko Sueki, Koji Inosako, Kiyotsugu Yoda, Haruyuki Fujimaki, Mohamed A.M. Abd Elbasit, Ahmed M. Eldoma, and Hiroshi Nawata. 2016: Monitoring of Stem Water Content of Native and Invasive Trees in Arid Environments Using GS3 Soil Moisture Sensors. Vadose Zone J. doi:10.2136/vzj2015.04.0061.
Saito T, H. Yasuda, Sugauma, K. Inosako, Y. Abe and T. Kojima. 2016: Predicting Soil Infiltration and Horizon Thickness for a Large-Scale Water Balance Model in an Arid Environment. Water , 8:96
Ohmido, N., Makigano, E., Tsuchimoto, S., Fukui, K. Flowering genes and homeotic floral genes analysis in Jatropha, in Tsuchimoto, S. (ed.) The Jatropha Genome, Springer Chapter 9 (in press)(謝辞に本共同研究の成果の記載がある)
Takagi, H., Ishiga, Y., Watanabe, S., Konishi, T., Egusa, M., Akiyoshi, N., Matsuura, T., Mori, I.C., Hirayama, T., Kaminaka, H., Shimada, H., and Sakamoto, A. (2016) Allantoin, a stress-related purine metabolite, can activate jasmonate signaling in a MYC2-regulated and abscisic acid-dependent manner. Journal of Experimental Botany 67: 2519–2532.
Tominaga, J., Mizutani, H., Horikawa, D., Nakahara, Y., Takami, T., Sakamoto, W., Sakamoto, A., and Shimada, H. (2016) Rice CYO1, an ortholog of Arabidopsis thaliana cotyledon chloroplast biogenesis factor AtCYO1, is expressed in leaves and involved in photosynthetic performance. Journal of Plant Physiology 207: 78–83.
Takahashi, M., Shigeto, J., Shibata, T., Sakamoto, A., and Morikawa, H. (2016) Differential abilities of nitrogen dioxide and nitrite to nitrate proteins in thylakoid membranes isolated from Arabidopsis leaves. Plant Signaling & Behavior 11: e1237329.
Takahashi, M., Shigeto, J., Sakamoto, A., and Morikawa, H. (2016) Light-triggered selective nitration of PSBO1 in isolated Arabidopsis thylakoid membranes is inhibited by photosynthetic electron transport inhibitors. Plant Signaling & Behavior 11: e1263413.
1882年(明治15年)2月の泥雨記事, 加納靖之, 京都大学防災研究所年報, 59B, 72-75, 2016.
古地震学とくずし字解読, 加納靖之, アプリで学ぶくずし字 くずし字学習支援アプリKuLA(クーラ)の使い方, 飯倉洋一(編), 2017.
Lai L., Chen L., Jiang L., Zhou J., Zheng Y., Shimizu H. (2016) Seed germination of seven desert plants and implications for vegetation restoration. AoB PLANTS, 8:1-10.
*Norihito Nakamichi, Saori Takao, Toru Kudo, Takatoshi Kiba, Yin Wang, Toshinori Kinoshita, Hitoshi Sakakibara. Improvement of Arabidopsis Biomass and Cold, Drought and Salinity Stress Tolerance by Modified Circadian Clock-Associated PSEUDO-RESPONSE REGULATORs. Plant Cell Physiol., 57: 1085-1097, 2016. (査読有) *corresponding author
Mari Kamioka, Saori Takao, Takamasa Suzuki, Kyomi Taki, Tetsuya Higashiyama, Toshinori Kinoshita, *Norihito Nakamichi. Direct repression of evening genes by CIRCADIAN CLOCK-ASSOCIATED 1 in the Arabidopsis circadian clock.Plant Cell 28: 696-711, 2016. (査読有) *corresponding author
丸山佳太・徳本家康, 局所耕うん栽培による人エマクロバア周囲の水分移動に関する実験的研究. 佐賀大農学部彙報 (2016)
Kazunari Onishi. Health Impact Assessment of Asian Dust/Cross-border Air Pollutant and Necessary Preventive Measure.Nihon Eiseigaku Zasshi. 2017 72:1-6
Kazunari Onishi. Findings about the specification of an allergen (cross border air pollution, Asian dust and pollen) and the preventive behavior. The allergy in Practice 2016 36(8) No.488
Teruya Maki, Yasunori Kurosaki, Kazunari Onishi, Kevin C. Lee, Stephen B. Pointing, Dulam Jugder, Norikazu Yamanaka, Hiroshi Hasegawa, Masato Shinoda. Variations in the structure of airborne bacterial communities in Tsogt-Ovoo of Gobi desert area during dust events. Qual Atmos Health. 2016 DOI: 10.1007/s11869-016-0430-3

論文情報

Shinji Otani, Kazunari Onishi, Youichi Kurozawa, Yasunori Kurosaki, Tserenpurev Bat-Oyun, Masato Shinoda, Haosheng Mu. Assessment of the Effects of Severe Winter Disasters (Dzud) on Public Health in Mongolia on the Basis of Loss of Livestock. *Disaster Medicine and Public Health Preparedness* 2016 1:1-4

Abir Majbuddin, Kazunari Onishi, Shinji Otani, Yasunori Kurosaki, Youichi Kurozawa. Association between Asian Dust-Borne Air Pollutants and Daily Symptoms on Healthy Subjects: A Web-Based Pilot Study in Yonago, Japan. *Journal of Environmental and Public Health* 2016(1-2):1-6 react-text: 62/react-text react-text: 63

Kazunari Onishi. Prevention of the secondhand smoke and leak-rate of the mask in children. *Japanese society for pediatric tobacco research*. 2017

大西一成. 疫学から見た大気浮遊粒子状物質による健康影響 ～ PM2.5アレルギー・黄砂アレルギーと診断できるのか～大阪保険医雑誌

Kumiko T. Kanatani, Kei Hamazaki, Hidekuni Inadera, Nobuo Sugimoto, Atsushi Shimizu, Hisashi Noma, Kazunari Onishi, Yoshimitsu Takahashi, Toshiko Itazawa, Miho Egawa, Keiko Sato, Tohshin Go, Isao Ito, Youichi Kurozawa, Ikuo Konishi, Yuichi Adachi, Takeo Nakayama, for the Japan Environment & Children's Study Group. Effect of desert dust exposure on allergic symptoms *Annals of allergy, asthma & immunology: official publication of the American College of Allergy, Asthma, & Immunology* 116(5) • 2016

大西一成 黄砂/大気汚染物質/花粉への感受性群におけるアレルギーの特定と予防行動に関する知見 *BIO Clinica 別冊 BIO Clinica 慢性炎症と疾患 通巻11号 第5巻第2号*

辻 渉: 乾燥環境下における適正作物栽培技術, *アグリバイオ* 1(5), 429-434 (in press), 北隆館

Shinoda, M. (2017), Evolving a multi-hazard focused approach for arid Eurasia, In T. Sternberg ed.: *Climate Hazard Crises in Asian Societies and Environments*, Routledge, Oxon UK, 73-102.

Mohammed, I.A., Tsuchimoto, S., Sakai, H., Wada, N. and Fukui, K. High-frequency Shoots Regeneration of an Oil Crop, *Simmondsia chinensis* (Link) Schneider Using Axillary Buds. *Tropical Agriculture and Development* (in press)

Mohammed, I.A., Tsuchimoto, S., Sakai, H., Wada, N. and Fukui, K. Agrobacterium-Mediated Transformation of Jojoba [*Simmondsia chinensis* (Link.) Schneider]. *Tropical Agriculture and Development* (in press)

Wada, N., Kazuki, Y., Kazuki, K., Inoue, T., Fukui, K. and Oshimura, M. Maintenance and Function of a Plant Chromosome in Human Cells. *ACS Synthetic Biology* DOI: 10.1021/acssynbio.6b00180