

平成27年度成果(論文等)一覧

論文情報
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. <i>Journal of Arid Environments</i> (in press)
Oguchi R, Ozaki H, Hanada K, Hikosaka K. What plant trait explains the variations in relative growth rate and in its response to the elevated CO2 concentration among <i>Arabidopsis thaliana</i> ecotypes derived from a variety of habitats? <i>Oecologia</i> in press
Sugawara S., Mashiguchi K, Tanaka K, Hishiyama S, Sakai T, Hanada K, Kinoshita-Tsujimura K, Yu H, Dai X, Takebayashi Y, Takeda *Kamiya N, Kakimoto T, Kawaide H, Natsume M, Estelle M, Zhao Y, Hayashi KI, Kamiya Y and Kasahara H. Distinct transport characteristics of indole-3-acetic acid and phenylacetic acid, two naturally occurring auxins in plants. <i>Plant Cell Physiology</i> 2015 ;56:1641-1654.
Kubota S., Iwasaki T., Hanada K., Nagano A., Fujiyama A., Toyoda T., Sugano S., Suzuki Y., Hikosaka K., Ito M., Morinaka S. A Genome Scan for Genes Underlying Microgeographic-Scale Local Adaptation in a Wild <i>Arabidopsis</i> Species. <i>PLoS Genet.</i> 2015 Jul 14;11(7):e1005361
Tripathi, BM 他11名、第三著者Tateno, R. Soil pH and biome are both key determinants of soil archaeal community structure. <i>Soil Biology and Biochemistry</i> 88:1-8. 2015
Urakawa, R 他23名、第五著者Tateno, R., Contributing factors of soil N mineralization and nitrification rates of forest soils in the Japanese archipelago. <i>Forest Ecology and Management</i> 361:382-396 2016
金紅実「政府書道下の中国乾燥半乾燥地砂漠化対策の歩みと特徴」北川秀樹『中国乾燥地の環境と開発—自然生業と環境保全』2015年、217-238頁
何彦斐「中国資源税制度30年の成果と課題」北川秀樹『北川秀樹『中国乾燥地の環境と開発—自然生業と環境保全』2015年、89-114頁
Miyake, M., M. Otsuka, H. Fujimaki, M. Inoue, and H. Saito, 2015, Evaluation of an Artificial Capillary Barrier as a Means to Control Infiltration and Capillary Rise to Improve Root Zone Condition. <i>Journal of Arid Land Studies</i> , 25(3), 117-120
Takagi, H., Ishiga, Y., Watanabe, S., Konishi, T., Egusa, M., Akiyoshi, M., Matsuura, T., Mori, I. C., Hirayama, T., Kaminaka, H., Shimada, H., Sakamoto, A. (2016) Allantoin, a stress-related purine metabolite, can activate jasmonate signaling in a MYC2-regulated and abscisic acid-dependent manner. <i>Journal of Experimental Botany</i> , Advance Access published March 1, 2016. doi:10.1093/jxb/erw071
Sakamoto, A., Nishimura, T., Miyaki, Y., Watanabe, S., Takagi, H., Izumi, S., Shimada, H. (2015) In vitro and in vivo evidence for oxalate oxidase activity of a gormin-like protein from azalea. <i>Biochemical and Biophysical Research Communications</i> 458:536-542.
Takahashi, M., Shigeto, J., Sakamoto, A., Izumi, S., Asada, K., Morikawa, H. (2015) Dual selective nitration in <i>Arabidopsis</i> : almost exclusive nitration of Ps and PsbP, and highly susceptible nitration of four non-PSII proteins, including peroxiredoxin II E. <i>Electrophoresis</i> 36: 2569-2578.
山本福壽・藤原佳奈・谷口武士・毛恵平・山中典和 2015 砂移動にともなう埋砂と退砂が小葉楊(<i>Populus simonii</i>)の生理・成長におよぼす影響 <i>日本緑化工学会誌</i> 41(1), 39-44.
BatOyun, T., M. Shinoda, Y. Cheng, and Y. Purevdorji Effects of grazing and precipitation variability on vegetation dynamics in a Mongolian dry steppe. <i>Journal of Plant Ecology</i> , in press.
Munkhtsetseg, E., M. Shinoda, J. Gillies, R. Kimura, G. Nikoliev, M. Ishizuka, M. Mikami, and J. King: Relationships between soil moisture and dust emissions in Mongolia. <i>Particology</i> , in press.
Inhibitory Effect of Polyion Complex on Soil Erosion under Simulated Rainfall K YAMADA, M KOBAYASHI, H FUJIMAKI <i>Irrigation, Drainage, and Rural Engineering Journal</i> 83 (2), 1 V_1-V_2, 2015
松永光平(2016)気候変動下における干ばつ多発化に対するオーストラリアの小麦生産の頑健性—1982年～1988年サウスオーストラリアマレーマリー地域を事例とした一考察—。立命館文学 645, 106-118.
村松弘一(2015)中国古代関中平原の水利開発と環境-鄭国渠から白渠へ-。史学 85-1～3.
村松弘一(2016)清末西安の教育と日本人教習-足立喜六を事例に-。学習院大学国際研究教育機構研究年報 2.
Tsujimoto H, Sohail Q, Matsuoka Y (2015) Broadening the genetic diversity of common wheat and durum wheat for abiotic stress tolerance breeding. In: Ogihara Y, Takumi S, Handa H (eds) <i>Advances in wheat genetics: from genome to field</i> Proceedings of the 12th International Wheat Genetics Symposium. p.233-238. Springer. DOI 10.1007/978-4-431-55675-6_25.
Matsuoka Y, Takumi S, Kawahara T (2015) Intraspecific lineage divergence and its association with reproductive trait change during species range expansion in central Eurasian wild wheat <i>Aegilops tauschii</i> Coss. (Poaceae). <i>BMC Evolutionary Biology</i> 15: 213. DOI: 10.1186/s12862-015-0496-9
Rina ADACHI, Shingo KAJIWARA, Kensuke KONDO, Rina YOKOYAMA, Ping AN and Naotaka MATSUZOE: Effects of different environmental conditions on growth and absorption of inorganic components in halophyte <i>Suaeda</i> species. <i>Japanese Society of sand Dune Research</i> (in press)
Rina ADACHI, Marin SUSAKI, Kensuke KONDO, Ping AN and Naotaka MATSUZOE: Effects of calcium and day-length on growth and flower bud formation in halophyte <i>Suaeda salsa</i> under salt stress. <i>Japanese Society of sand Dune Research</i> (in press)
森井俊広・藤巻晴行: 土のキャピラリーバリア機能を利用した節水かんがいシステムの開発—バレーナ自治区ヨルダン川西岸地区における適用可能性調査—, 新潟大学農学部研究報告, 第68巻, pp.37-41, 2016.
小林薫・森井俊広・松元和伸: 貝殻を有効利用したキャピラリーバリアによる塩害防止策に関する基礎的研究, 土木学会論文集B3, 第71巻第2号, pp.874-879, 2015.
岡村裕美・山本福壽・西原英治・谷口武士・山中典和: 塩ストレスがウラルカンゾウ(<i>Glycyrrhiza uralensis</i> Fisher ex Candolle)1年生苗の成長と生理に及ぼす影響. <i>日緑江誌</i> , 41(1): 33-38 2015
Kazunari Onishi, Tsuyoshi Thomas Sekiyama, Masanori Nojima, Yasunori Kurosaki Yusuke Fujitani, Shinji Otani, Masato Shinoda, Takashi Maki, Youichi Kurozawa Prediction of health effects of cross-border atmospheric pollutants using an aerosol forecast model (投稿中)
Nagashima, K., Y. Suzuki, T. Irino, T. Nakagawa, R. Tada, Y. Hara, K. Yamada, and Y. Kurosaki (2016), Asian dust transport during the last century recorded in Lake Suigetsu sediments, <i>Geophys. Res. Lett.</i> , 43, doi:10.1002/2015GL067589.
Tsuji Y., Ito T. Y., Wada K., and Watanabe K. (2015) Spatial patterns in the diet of the Japanese macaque, <i>Macaca fuscata</i> , and their environmental determinants. <i>Mamm. Rev.</i> 45: 227-238
丸山佳太, 徳本家康, 局所耕うん栽培による人エマクロポア周囲の水分移動に関する実験的研究. 佐賀大農学部集報(印刷中).
I. Tokumoto, K. Chiba, M. Mizoguchi, and H. Miyamoto, INVESTIGATION OF ROOTZONE SALINITY WITH FIELD MONITORING SYSTEM AT TSUNAMI AFFECTED RICE FIELDS IN MIYAGI, JAPAN. SOIL (Accepted).
An improved protocol for mass propagation of an oil crop <i>Simmondsia chinensis</i> (Link) Schneider through in vitro axillary shoot proliferation Ismail A. Mohammed, Suguru Tsuchimoto, Hiroe Sakai, Naoki Wada, Kiichi Fukui 投稿中
Revitalization of <i>Jatropha curcas</i> L. the Navigator as a biofuel producer Haiyan Li, Suguru Tsuchimoto, Kyuya Harada, Masanori Yamasaki, Hiroe Sakai, Naoki Wada, Atefeh Alipour, Tomohiro Sasaki, Atsushi Tsunekawa, Hisashi Tsujimoto, Takayuki Ando, Hisashi Tomemori, Satoshi Tabata, Shusei Sato, Hideki Hirakawa, Victor Pecina-Quintero, Alfredo Zamarripa, Primitivo Santos, Adel Hegazy, Abdalla Mohamed Ali, Kiichi Fukui <i>Science誌</i> に投稿準備中
Agrobacterium-mediated transformation of jojoba [<i>Simmondsia chinensis</i> (Link.) Schneider] Ismail A. Mohammed, Suguru Tsuchimoto, Hiroe Sakai, Naoki Wada, Kiichi Fukui 投稿準備中
バイオ燃料植物ジャトロファの組織培養法の開発 土本草 テクノネット 印刷中
北川博史(2016): 乾燥地都市における経済開発とその特性—オーストラリアを事例として—. 岡山大学文学部紀要, 第65号、印刷中
F. Kobayashi, T. Maki, M. Kakikawa, M. Yamada, F. Puspitasari, Y. Iwasaka, Bioprocess of Kosa bioaerosols: effect of ultraviolet radiation on airborne bacteria within Kosa (Asian dust), <i>Journal of Bioscience and Bioengineering</i> 119, 570-579 (2015) DOI :10.1016/j.jbiosc.2014.10.015, reference number JBIOSC1581
T. Maki, K. Hara, F. Kobayashi, Y. Kurosaki, M. Kakikawa, A. Matsuki, C. Bin, G. Shi, H. Hasegawa, Y. Iwasaka, Vertical distribution of airborne bacterial communities in an Asian dust downwind area, <i>Note Peninsula, Atmospheric Environment</i> 119, (2015) 282-293. DOI: 10.1016/j.atmosenv.2015.08. 052F
M. He, T. Ichinose, Y. Song, Y. Yoshida, F. Kobayashi, T. Maki, S. Yoshida, H. Takano, T. Shibamoto, G. Guifan Sun, The role of Toll-like receptors and MyD88 in Bjerkandera adusta-induced lung inflammation, <i>Int. Arch. Allergy Immunol.</i> 査読有 2015;168:96-106 (DOI:10.1159/000441895)
F. Kobayashi, T. Maki, M. Kakikawa, T. Neda, H. Mitamura, A. Takahashi, S. Imura, Y. Iwasaka Atmospheric bioaerosols originating from Adélie penguins (<i>Pygoscelis adeliae</i>) 2 ecological observations of airborne bacteria at Hukuro Cove, Langhovde Antarctica, <i>Polar Science</i> 査読有 10(1) 2016, 71-78 doi: 10.1016/j.polar.2015.12.002
Kobayashi, K. Iwata, T. Maki, M. Kakikawa, T. Higashi, M. Yamada, T. Ichinose, Y. Iwasaka, Evaluation of the toxicity of a Kosa (Asian duststorm) event from view of food poisoning: observation of Kosa cloud behavior and real-time PCR analyses of Kosa bioaerosols during May 2011 in Kanazawa, Japan, <i>Air Quality, Atmosphere and Environment</i> 査読有 2015;168:96-106 (DOI:10.1159/000441895)
朝日裕也, 牧輝弥, 石川輝, 松永智樹, 渡辺幸一, 青木一真, 堀内周, 長谷川浩, 岩坂泰信, 中国大陸からの越境エアロゾルが貧栄養海域微生物に及ぼす生態的影響の解明: 太平洋沖合の海水を用いた洋上培養実験, <i>日本海水学会</i> , 査読有 70, 28-40(2016).
K. Hara, T. Maki, F. Kobayashi, M. Kakikawa, M. Wada, A. Matsuki, Variations of ice nuclei concentration induced by rain and snowfall 1 within a local forested site in Japan, <i>Atmospheric Environment</i> 査読有 127 1—5 (2016). Doi:10.1016/j.atmosenv.2015.12.009
F. Puspitasari, T. Maki, G. Shi, C. Bin, F. Kobayashi, H. Hasegawa, Y. Iwasaka, Phylogenetic analysis of bacterial species compositions in sand dunes and dust aerosol in an Asian dust source area, the Taklimakan Desert, <i>Air Quality, Atmosphere and Health</i> (2015). DOI: 10.1007/s11869-015-0367-y
牧輝弥, 放射性セシウムの環境動態解析に向けたLA-ICP-MS分析の応用, <i>ぶんせき</i> , 10, p.466(2015)
牧輝弥, 岩坂泰信, 吉田圭吾, 小林史尚, 河合賢人, 市瀬孝道, プロダクトイノベーション:「そらなっとう」開発秘話:空飛ぶ納豆菌はなぜ発見されたのか? 化学と生物, 査読有、(2016)印刷中.
Nanasato, Y., Kido, M., Kato, A., Ueda, T., Suharsono, S., Widyastuti, U., Tsujimoto H., Akashi, K. (2015) Efficient genetic transformation of <i>Jatropha curcas</i> L. by means of vacuum infiltration combined with filter—paper wicks. In <i>Vitro Cellular and Developmental Biology — Plant</i> (IF=1.162), 51, 399-406.
Saito T., H. Yasuda, M. Sakurai, K. Acharya, S. Sueki, K. Inosako, K. Yoda, H. Fujimaki, M. Abd Elbasit, A. Eldom and H. Nawatai Monitoring of stem water content of native/invasive trees in arid environments using GS3 soil moisture sensor. <i>Vadose Zone Journal</i> . 15; doi: 10.2136/vzj2015.04.0061 2016.3
Kiyotsugu Yoda, Ryo Miyawaki, Tadaomi Saito, Mohamed Elbasit, Ahmed Eldoma Tomoe Inoue, Hiroshi Nawata, Hiroshi Yasuda and Wataru Tsuji. (2015) Evaluation of the ecological role of seed gum in germination of <i>Prosopis juliflora</i> (Mesquite) under drought stress conditions. <i>Journal of Arid Land Studies</i> , 25: 113—116. (査読あり)
Kiyotsugu Yoda, Wataru Tsuji, Tomoe Inoue, Tadaomi Saito, Mohamed A.M. Abd Elbasit, Ahmed M. Eldoma, Magzoub K. Magzoub, Buho Hoshino, Hiroshi Nawata, Hiroshi Yasuda. 2015. Evaluation of the effect of a rain pulse on the initial growth of <i>Prosopis</i> seedlings. <i>Arid Land Research and Management</i> . 29: 210-221 (査読あり)
Nagano AJ, Honjo NM, Mihara M, Sato M and Kudoh H, (2015) Detection of Plant Viruses in Natural Environments by Using RNA-Seq., <i>Methods in Molecular Biology</i> , 1236: 89-98.
Shamik CHAKRABORTY, YASUDA Hiroshi, Abhik CHAKRABORTY, NABETA Hajime, KAWAI Takayuki and ISHIYAMA Shun, The Nile and Recent Changes in Its Basin Environment: Evidences from Literature, <i>J. Resour. Ecol.</i> , 2015 6 (5) 345-352, Sept., 2015.
栗生田忠雄・河合隆行, 複合暗渠施工水田における電気比抵抗値を用いた地下灌漑効果の可視化, 29-32, 2014土壌水分ワークショップ論文集, pp29-32, 2015.
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, <i>SOLA</i> , 12, 86-90, doi 10.2151/sola.2016-020.
Maki, T., K. Hara, F. Kobayashi, Y. Kurosaki, M. Kakikawa, A. Matsuki, C. Bin, G. Shi, H. Hasegawa, and Y. Iwasaka, 2015: Vertical distribution of airborne bacterial communities in an Asian-dust downwind area, <i>Note Peninsula, Atmospheric Environment</i> , 119, 282-293.
Yumimoto, K., H. Murakami, T. Y. Tanaka, T. T. Sekiyama, A. Ogi, and T. Maki, 2015: Forecasting of Asian Dust Storm during 10-13 May in 2011 with an Ensemble-based Data Assimilation System, <i>Particology</i> , accepted, doi:10.1016/j.partic.2015.09.001
Takeuchi, J.; Ohnishi, T.; Okamoto, M.; Todoroki, Y.: Conformationally restricted 3-, modified ABA analogs for controlling ABA receptors, <i>Org. Biomol. Chem.</i> 2015, 13, 4278-4288.
Takeuchi, J.; Ohnishi, T.; Okamoto, M.; Todoroki, Y.: The selectivity of 6-nor-ABA and 7-nor-ABA for abscisic acid receptor subtypes, <i>Bioorg. Med. Chem. Lett.</i> 2015, 25, 3507-3510.
Murakami Y, Miki NH, Yang L, Zhang G, Wang LH, Yoshikawa K, Water transport properties of seven woody species from the semi-arid Mu Us Sandy Land, China. <i>Landscape Ecol Eng</i> , DOI 10.1007/s11355-015-0290-2 (in press)
松本哲也・三木直子・廣部 宗・張 國盛・王 林和・吉川 賢, 中国半乾燥地の固定砂丘上における <i>Artemisia ordosica</i> Krasch. 群落の構造に <i>Juniperus sabina</i> L. と土壌表層の環境条件が与える影響. <i>日本緑化工学会誌</i> 41(1), 56-61 (2015)
Galarza, L., Akagi, Y., Takao, K., Kim, C. S., Maekawa, N., Itai, A. and Kodama, M. (2015) Characterization of <i>Trichoderma</i> species isolated in Ecuador and their antagonistic activities against phytopathogenic fungi from Ecuador and Japan. <i>Journal of General Plant Pathology</i> , 81(3): 201-210.
Galarza, L., Akagi, Y., Takao, K., Peralta, E., Santos, E. and Kodama, M. (2015) Involvement of ThSNF1 in the development and virulence of biocontrol agent <i>Trichoderma harzianum</i> . <i>Journal of General Plant Pathology</i> , 81(3): 211-217
Tsujimoto H, Sohail Q, Matsuoka Y (2015) Broadening the genetic diversity of common wheat and durum wheat for abiotic stress tolerance breeding. In: Ogihara Y, Takumi S, Handa H (eds) <i>Advances in wheat genetics: from genome to field</i> Proceedings of the 12th International Wheat Genetics Symposium. p.233-238. Springer. DOI 10.1007/978-4-431-55675-6_25.
Matsuoka Y, Takumi S, Kawahara T (2015) Intraspecific lineage divergence and its association with reproductive trait change during species range expansion in central Eurasian wild wheat <i>Aegilops tauschii</i> Coss. (Poaceae). <i>BMC Evolutionary Biology</i> 15: 213. DOI: 10.1186/s12862-015-0496-9
Shao, Y., Nickling, W., Bergametti, G., Butler, H., Chappell, A., Findlater, P., Gillies, J., Ishizuka, M., Klöse, M., Kok, J. F., Leys, J., Lu, H., Marticorena, B., McTainsh, G., McKenai-Neuman, C., Okin, G. S., Strong, C., Webb, N.: A tribute to Michael R. Raupach for contributions to aeolian fluid dynamics, <i>Aeolian Research</i> , Vol.19, Part A, 37-54, 2015.

論文情報

Maki, T., Hara, K., Kobayashi, F., Kurosaki, Y., Kakikawa, M., Matsuki, A., Bin, C., Shi, G., Hasegawa, H., Iwasaka Y., : Vertical distribution of airborne bacterial communities in an Asian-dust downwind area, Noto Peninsula. *Atmospheric Environment*, 119: 282-293, 2015

Nagashima, K., Suzuki, Y., Irino, T., Nakagawa, T., Tada, R., Hara, Y., Yamada, K., Kurosaki Y., Asian dust transport during the last century recorded in Lake Suigetsu sediments. *Geophysical Research Letters*: n/a-n/a. (accepted on March 14, 2016).

Nakano, T. and Shinoda, M., 2015: Modeling gross primary production and ecosystem respiration in a semiarid grassland of Mongolia. *Soil Science and Plant Nutrition*, 61, 106-115.

丸山佳太, 徳本家康, 局所耕うん栽培による人エマクロボ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(印刷中)

I.Tokumoto, K. Chiba, M.Mizoguchi, and H. Miyamoto, INVESTIGATION OF ROOTZONE SALINITY WITH FIELD MONITORING SYSTEM AT TSUNAMI AFFECTED RICE FEILDS IN MIYAGI, JAPAN. *SOIL*. (Accepted).

Shimada A, Kohara Y, Naota M, Kobayashi Y, Morita T, Inoue K, Takano H. Pathological study of chronic pulmonary toxicity induced by intratracheally instilled Asian sand dust (Kosa): possible association of fibrosis with the development of granulomatous lesions. *Folia Histochemica et Cytobiologica*, 2015;53 (4):294-306

馬場 貴志・青目晴子・白井早紀・山田美奈・藤山英保:好塩性植物を利用した高塩濃度灌漑水中のNa⁺のファイトレメディエーション、2015生態工学会年次大会発表論文集、97-98

T. Baba: Differences of shortterm responses of ion transport related to salt- tolerance of rice and tomato species. *Sand Dune Research* (Accepted)

T. Baba, H. Aome, S. Shirai and M. Yamadai Evaluation of plant growth and Na-absorption ability inf halophilic and salt-loving species.*Sand Dune Research* (Accepted)

Mother-offspring vocal communication in sheep and goats as an animal welfare index, Hirofumi Naekawa, *Proceedings of the 49th Congress of the International Society for Applied Ethology*, 185, 2015.