2. 研究業績／Research Achievements

2. 研究業績／Research Achievements (April 2013-March 2014)

2.1 論 文・著 書／Journal Articles/ Books/ Book Chapters

Journal Articles

Abd Elbasit, Mohamed A., Ojha, M.C.S.P., Huang, J., Yasuda, H., Kimura, R. and Ahmed. Z. (Apr. 2013): Relationship between rainfall erosivity indicators under arid environments: Case of Liudaogou basin in Chinese Loess Plateau. Journal of Food, Agriculture & Environment 11: 1073−1077.

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An, P., Kajiwara, S., Inoue, T., Li, X. and Inanaga, S. (Oct. 2013): Cultivation of halophytes in saline soils, Sand Dune Research 60: 9−18.［安萍・梶原真悟・井上知恵・李向軍・稲永忍（2013 年 10 月）：塩類集積地における塩生植物の農業利用．日本砂丘学会誌 60: 9−18.］

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Books

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Tsujimoto, H. (Mar. 2014): Chapter 6. Insecurity of food production, 6−1 Current situations and issues, In Tsunekawa, A. et al. eds. Knowledge and Technology to Save Drylands - Solutions to Desertificaion, Land Degradation and Drought. Maruzen Publishing Co. Ltd., Tokyo, 80−83. (ISBN: 978−4−621−08753−4)［辻本壽　6 章　不安定な食糧生産、6−1 現状と課題、恒川篤史編集代表「乾燥地を救う知恵と技術―砂漠化・土地劣化・干ばつ問題への対処法」丸善出版、東京、80−83.］

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Tsunekawa, A., Liu, G., Yamanaka, N. and Du, S. (Sep. 2013): Restoration and Development of the Degraded Loess Plateau, China, Tokyo, Springer, 288 p. (ISSN: 2191−0707)

Yamanaka, N. (Mar. 2014): Checkerboard sand barriers, In Tsunekawa, A. et al. eds. Knowledge and technology to save drylands - Solutions to desertification, land degradation and drought. Maruzen publishing Co. Ltd., Tokyo, 34−35. (ISBN: 978−4−621−08753−4)［山中典和（2014 年 3 月）：砂丘地で風食を防止する「草方格」、恒川篤史編集代表「乾燥地を救う知恵と技術―砂漠化・土地劣化・干ばつ問題への対処法」．丸善出版、東京、34−35.］

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Yan, M., He, O., Yamanaka, N. and Du, S. (Oct. 2013): Location, Geology and Landforms of the Loess Plateau, In Tsunekawa, A., Guobin, L., Yamanaka, N. and Du, S. eds. Restoration and Development of Degraded Loess Plateau, China. Springer, Tokyo, 3−21. (ISBN: 978−4−431−54480−7)

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2.2 会議・シンポジウム・学会発表／Conference/ Symposium/ Presentations

International（国際）

Abulaiti, A., Kimura, R., Shinoda, M., Kurosaki, Y., Mikami, M., Ishizuka, M., Yamada, Y., Nishihara, E. and Gantsetseg, B. (Mar. 2014): Features of saltation and dust event in Tsogt-Ovoo, Mongolia. International Symposium on Agricultural Meteorology, Sapporo, Japan.

An, P. (Oct. 2013): Effects of Na+ and Ca 2+ on root cell wall composition in two soybean cultivars differing in salt tolerance. International Workshop on Mechanisms of Plant Stress Tolerance and Sustainable Use of Saline Resources, Shijiazhuang, China.

An, P. (Dec. 2013): Introduction of my studies. Sino-Japan Workshop on Developing Cooperation and Exchange Program in Minqin, Lanzhou, China.

Das, B., Singh, A., Panda, S.N. and Yasuda, H. (Aug. 2013): Interseasonal and Multicrop Conjunctive use Planning in a Canal Irrigation System: Development and Application of User-friendly Software The 2nd Annual Pacific Rim Energy & Sustainability Conference. Hiroshima, Japan.

Eltayeb, A.E., Habora, M.E.E., Tanaka, K. and Tsujimoto, H. (Sep. 2013): Prospects of utilizing antioxidant capacities for improving wheat abiotic stress tolerance. 12 th International Wheat Genetics Symposium, Yokohama, Japan.

Eltayeb, A.E., Habora, M.E.E., Tsujimoto, H. and Tanaka, K. (Sep. 2013): Higher contents of ascorbate or glutathione confers improved drought stress tolerance in transgenic potato plants. InterDrought-IV Conference, Perth, Australia.

Fujimaki, H., Tokumoto, I., Saito, T. and Shibata, M. (Nov. 2013): Determination of irrigation depths using a process model and quantitative weather forecast. Soil Science Society of America Annual Meeting 2013, Florida, USA.

Habora, M.E.E., Eltayeb A.E., Tsujimoto, H. and Tanaka, K. (Sep. 2013): Genes controlling the genetic adaptive response to drought stress in Leymus, a wild relative of wheat. InterDrought-IV, Perth, Australia.

Habora, M.E.E., Eltayeb, A.E., Tanaka, K. and Tsujimoto, H. (Sep. 2013): Identification of drought-stress responsive genes from the dune grass *Leymus mollis*, a wild relative of wheat. 12 th International Wheat Genetics Symposium, Yokohama, Japan.

Haregeweyn, N., Poesen, J., Tsunekawa, A., Tsubo, M., Nyssen, J., Deckers, J. and Meshesha, D.M. (Apr. 2013): Reservoir sedimentation and its mitigation strategies: a case study of the Ethiopian highlands. AFRICA 2013 International Conference and Exhibition: Water Storage and Hydropower Development for Africa, Addis Ababa, Ethiopia.

Haregeweyn, N., Tsunekawa, A., Tsubo, M., Meshesha, D. and Adgo, E. (Jun. 2013): Integrated watershed management: an effective land management and climate adaptation approach in the drylands. AOGS 2013−10 th Annual Meeting and Geosciences World Community Exhibition, Brisbane, Australia.

Haregeweyn, N., Tsunekawa, A., Tsubo, M., Meshesha, D. and Adgo, E. (Jun. 2013): Prioritization of Reservoir Sediment Mitigating Strategies with a Multi-Criteria Decision Analysis (MCDA) Technique: A Case Study of Angereb Reservoir (NW Ethiopia). AOGS 2013−10 th Annual Meeting and Geosciences World Community Exhibition, Brisbane, Australia.

Ishii, T. and Tsujimoto, H. (Sep. 2013): Preferential recruitment of maternal centromere histone H3 (CenH3) in embryos of species hybrid of different subfamilies of Poaceae. Triticeae Cytogenetics: Past, Present and Future, Kyoto, Japan.

Ito, T.Y., Imai, S., Lhagvasuren, B., Tsunekawa, A. and Shinoda, M. (Aug. 2013): Effects of vegetation conditions on annual range size of Mongolian gazelles. 11 th International Congress of Ecology (INTECOL 2013). London, UK.

Ito, T.Y., Lhagvasuren, B., Tsunekawa, A. and Shinoda, M. (Aug. 2013): Seasonal change of anthropogenic barrier influence on long-distance migratory ungulates in Mongolia. 11 th International Mammalogical Congress, Belfast, UK.

Jeon, A-Y., Cho, K., Jang, H-Y., Kamal, A., H., M., Kim, K-H., Cho, S-W., Choi, J-S. and Woo, S-H. (Aug. 2013): Effects of LED Light Conditions on Growth and Analysis of Functional Components and Metabolites in Buckwheat Sprout. The 12 th International Symposium on Buckwheat, Laško, Slovenia.

Jugder, D., Shinoda, M., Sugimoto, N., Matsui, I., Kimura, R. Nishikawa, M. and Gansukh, N. (May 2013): Temporal and spatial distributions and transportation of dust and anthropogenic aerosols in Mongolia. Conference on Airborne Mineral Dust Contaminants: Impacts on Human Health and the Environment, Arizona, USA.

Kamal, A.H.M., Kim, K-H., Jang, H-Y., Cho, S-W., Suzuki, T., Tanaka, T., Yun, Y-H., Choi, J-S., Park, S-U., Park, C-H. and Woo, S-H. (Aug. 2013): Protein analysis of Common Buckwheat Grain using multidimensional proteins identification (MudPIT). The 12 th International Symposium on Buckwheat, Laško, Slovenia.

Kimura, R. and Moriyama, M. (Mar. 2014): Application of satellite-based aridity index in dust source regions of northeast Asia: Effect of land surface aridity on Asian dust events over Japan from 2000 to 2011. International Symposium on Agricultural Meteorology 2014, Sapporo, Japan.

Kurosaki, Y. and Abulitipu, A. (Dec. 2013): Spatial difference of sand saltation in Tsogt-Ovoo, the northern Gobi Desert of Mongolia. 2013 International Workshop on Terrestrial Change in Mongolia, Tokyo, Japan.

Manickavelu, A., Sohail, Q., Matsui, M., Kondo, Y., Tsujimoto, H. and Ban, T. (Apr. 2013): Ph(G)enomics characterization and enhancement of Afghan wheat landraces. 3rd International Symposium on Genomics of Plant Genetic Resources, Jeju, Korea.

Matsushima, D., Kimura, R. and Kurosaki, Y. (Dec. 2013): An estimation of spatial distribution of surface soil moisture conditions by a thermal inertia method with an application to Govi Steppe. 2013 International

Workshop on Terrestrial Change in Mongolia, Tokyo, Japan.

Miyamoto, H., Ito, N., Mase, A., Tokumoto, I., Cho, H. and Chikushi, J. (Dec. 2013): Application of Time Domain Transmissiometry to coupled measurements of soil moisture and electrical conductivity. Soil Science Society of America Annual Meeting 2013, Florida, USA.

Mohamed Ahmed, I.A., Babiker, E.E. and Mori, N. (Feb. 2014): Purification and characterization of milk-clotting enzyme from Solanum dubium seeds. The 5 th Annual Conference of graduate collage of University of Khartoum 2014, Khartoum, Sudan.

Mohamed Ahmed, I.A., Eltayeb, M.M., Arima, J., Mori N. and Yamanaka, N. (Feb. 2014): Enzymatic study on the microbial degradation of homocholine. The 5 th Annual Conference of graduate collage of University of Khartoum 2014, Khartoum, Sudan.

Mohamed, Y.S.A., Tsujimoto, H. and Eltayeb, A. (Sep. 2013): An insertion in the promoter of the Vrn-A1 of wheat-*Leymus* chromosome addition lines is responsible for early flowering. The 12 th International Wheat Genetics Symposium, Yokohama, Japan.

Mohammed, Y.S.A., Eltayeb, A.E. and Tsujimoto, H. (Feb. 2014): *Leymus racemosus*, a wheat wild relatives is a potential source for wheat improvement for aluminum and heat stress tolerance. International Conference Translational Cereal Genomic, Vienna, Austria

Munkhtsetseg, E., Park, S.-U., Shinoda, M. Lee, E.-H. and Jugder, D. (Nov. 2013): Simulation results of MGLA-DAM for DSS 2011−01 and future research plan on dust modeling. The 6 th Meeting of WG (I) for Joint Research on Dust and Sand Storms among Mongolia, China, Korea and Japan, Seoul, Korea.

Nandintsetseg, B. (Mar. 2014): Modeling interactions between vegetation and Aeolian processes in a temperate grassland ecosystem. The Seminar of Joint Project on Grassland Degradation, Germany.

Nandintsetseg, B. and Shinoda, M. (Dec. 2013): Recent changes in land erodibility parameters (Soil and vegetation) in the Mongolian temperate grasslands. 2013 International Workshop on Terrestrial Change in Mongolia, Tokyo, Japan.

Okamoto, M., Peterson, F.C., Volkman, B.F. and Cutler, S. R. (Jun. 2013): Activation of dimeric ABA receptors elicits guard cell closure, ABA-regulated gene expression and drought tolerance. The 21 st International Conference on Plant Growth Substances, Shanghai, China.

Roy, S.K., Kim, H-R., Kwon, S-J., Ko, J-H., Cho, S-W., Suzuki, T., Tanaka, T., Park, C-H. and Woo, S-H. (Aug. 2013): Characterization and allergenic distribution of seed-proteins in buckwheat. The 12 th International Symposium on Buckwheat, Laško, Slovenia.

Shinoda, M. (Sep. 2013): High-impact weathers in a changing climate over arid Eurasia and proactive disaster management. IUTAM Symposium on the Dynamics of Extreme Events Influenced by Climate Change, Lanzhou, China.

Shinoda, M. (Dec. 2013): Hotspots of recent drought in Asian steppes. SINO-JAPAN Workshop on Developing Cooperation, Lanzhou, China.

Singh, A., Yasuda, H. and Panda, S.N. (Dec. 2013): Managing environmental concern of waterlogging in irrigated agriculture through a simulation model. 6 th International Congress of Environmental Research (ICER-13), Aurangabad, India.

Tanaka, H., Arakawa, T., Kodani, T. and Tsujimoto, H. (Sep. 2013): Additional alien chromosomes in common wheat effect on the protein profile in the endosperm and dough strength. 12 th International Wheat Genetics Symposium, Yokohama, Japan.

Tasumi, M., Kimura, R. and Moriyama, M. (Mar. 2014): A simple method for evapotranspiration estimation using satellite-based surface temperature. International Symposium on Agricultural Meteorology 2014, Sapporo, Japan.

Taye, G., Poesen, J., van Wesemael, B., Deckers, J., Martens, L., Teka, D., Nyssen, J. and Haregeweyn, N. (Oct. 2013): Does the effectiveness of soil and water conservation techniques change over time? A case study from the semi-arid Ethiopian highlands. Soil Science Society of Belgium, National Committee of Soil Science, Day of Young Soil Scientists 2013, Brussels, Belgium

Tokumoto, I., Fujimaki, H., Noborio, K. and Yasuda H. (Nov. 2013): Greenhouse Gas Emissions From Cornfields Under Different Irrigation Scheduling Strategies in Tottori, Japan. Soil Science Society of America Annual Meeting 2013, Florida, USA.

Tokumoto, I., Heilman, J.L., McIness, K.J., Morgan, C.L.S. and Kamps, R.H. (Nov. 2013): Spatial variability of soil water storage in a karst savanna on the Edwards Plateau, Texas. Soil Science Society of America Annual Meeting 2013, Florida, USA.

Tokumoto, I., Heilman, J.L., McIness, K.J., Morgan, C.L.S. and Kamps, R.H. (Sep. 2013): Water storage and uptake in a karst savanna in Texas - calibration and use of neutron moisture and gamma density probes in rocky soils-. BIT's 3rd World Congress of Agriculture 2013, Hangzho, China.

Tokumoto, I., Heilman, J.L., McIness, K.J. and Morgan, C. L.S. (Dec. 2013): Hydraulic Properties of Rocky Soils in a Semi-Arid Savanna on the Edwards Plateau, TX, Desert Technology 2013, Texas, USA.

Tomemori, H. (Mar. 2014): Plant Resources of Jatoropha. 7 th Meeting of international Society for Environmental Bio-Resources, Effective Use of Bioresources in Arid Land, Osaka, Japan.

Tsujimoto, H. (Jun. 2013): Novel traits of *Leymus* species that may contribute on wheat improvement. 7 th International Triticeae Symposium, Chengdu, China.

Tsujimoto, H. (Jul. 2013): A Hybrid between oat and pearl millet. WGGRC Symposium, Manhattan, Kansas, USA.

Tsujimoto, H. (Sep. 2013): Exploitation of novel traits in wild species for wheat breeding in the next generation. JSPS, Asian CORE Program 'Symposium on Plant Genetic Resources in East Asia' Okayama, Japan.

Tsujimoto, H., Cho, S.-W. and Kishii, M. (Sep. 2013): 'Homology coefficient (h)' to indicate chromosome relatedness to search for factors promoting homoeologous recombination. Triticeae Cytogenetics: Past, Present and Future, Kyoto, Japan.

Tsujimoto, H., Matsuoka, Y. and Sohail, Q. (Sep. 2013): Broadening the genetic diversity of common and durum wheat for screening abiotic stress tolerance. 12 th International Wheat Genetics Symposium, Yokohama, Japan.

Tsunekawa A. (Aug. 2013): Desertification Control based on UNCCD Principle and Strategy. Sub-Forum on Science and Technology Related to Mitigation in DLDD, The Fourth Kubuqi International Desert Forum, Inner Mongolia, China.

Yamanaka, N. (Nov. 2013): Research activities of Arid Land Research Center (ALRC). International Symposium to Combat Desertification in Northeast Asia, Seoul, Korea.

Domestic（国内）

Abulaiti, A., Kimura, R., Shinoda, M., Mikami, M., Ishizuka, M., Yamada, Y., Kurosaki, Y. and Nishihara, E. (Dec. 2013): Features of saltation and dust event in Tsogt-Ovoo, Mongolia. 日本農業気象学会 2013 年中国・四国支部大会、愛媛.

Bashir Khurram・中南健太郎・樋口美栄子・吉積毅・岡本昌憲・清水みなみ・大橋千広・田中真帆・松井南・篠崎一雄・花田耕介・関原明（2014 年 3 月）: Characterizing the role of small open reading frames in abiotic stress tolerance. 日本植物生理学会、富山.

Das, Biswadip, Singh Ajay, Panda Sudhindra N., and Yasuda, H. (Aug. 2013): Interseasonal and multicrop conjunctive use planning in a canal irrigation system for sustainable land and water resources management. 2nd Annual Pacific Rim Energy & Sustainability Conference, 広島.

Nandintsetseg, B. (Dec. 2013): Climate Change Impacts on the Mongolian Temperate Grasslands. The Seminar of Joint-Use Research at Arid Land Research Center, 鳥取.

Panda, Sudhindra N. (Nov. 2013): Integrated land and water resources planning and management for water table and salinity control in an irrigation system of south-west Punjab (India). AAA+2013 Proceedings: International Symposium on Answers to Asian Aquatic Problem 2013, Tokyo Metropolitan University, 東京.

Tokumoto, I. Heilman, J.L., McIness, K.J., Morgan, C.L.S. and Kamps, R.H. (Aug. 2013): Calibration and use of neutron moisture and gamma density probes in rocky soils. Japanese Society of Irrigation, Drainage, Rural Engineering annual meeting 2013, 東京.

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Yasuda, H., Yoda, K., Panda, S.N., Elbasit, M.A. and Hunag, J. (Aug. 2013): Dynamics of groundwater use by plants in arid environments. 2nd Annual Pacific Rim Energy & Sustainability Conference, Hiroshima, Japan.

Yasuda, H., Yoda, K., Panda, S.N., Abd Elbasit, M.A.M. and Hunag, J. (Oct. 2013): Mesquite (*Prosopis* spp.) water uptake under different simulated drought conditions. RIHN 8 th International Symposium on Risk Societies, Edge Environments: Ecosystems and Livelihoods in the Balance, Research Institute for Humanity and Nature (RIHN), Kyoto, Japan.

阿不力提甫阿不来提・木村玲二（2013 年 5 月）: 植生の柔軟性とサルテーションによる砂の捕捉との関係. 日本沙漠学会 2013 年度第 24 回学術大会、広島.

石井孝佳・砂村直洋・上田登史恵・エリタエブアミン E・辻本壽（2013 年 3 月）: ムギ類とパールミレットの亜科間交雑における雌雄の動原体特異的ヒストン CENH3 の挙動と染色体脱落の関係. 日本育種学会 2013 年度春季学術大会、東京.

和泉瑶伽・谷口武士・寺谷瑠宇公・宮崎寛大・毛惠平・山本福壽・山中典和（2014 年 3 月）: 中国内蒙古自治区クブチ砂漠に植栽された樹木の生存と成長. 第 125 回日本森林学会、埼玉.

伊藤健彦（2014 年 3 月）: モンゴルの野生動物の大移動：衛星技術を用いた解析と保全. The 2nd Design Symposium on Conservation of Ecosystems (SEASTER 2000)、京都.

伊藤健彦・B. Lhagvasuren・恒川篤史・篠田雅人・高槻成紀・B. Buuveibaatar・B. Chimeddorj（2013 年 9 月）: モンゴルの野生有蹄類が移動の障害物付近を利用する頻度の季節変化. 第 29 回日本霊長類学会・日本哺乳類学会 2013 年度合同大会、岡山.

井上光弘・井上知恵・清水知樹・財原大地・山根徹（2013 年 7 月）: 省力型定水位自動地中灌漑法の開発―ハウス内の節水型野菜栽培への適用と問題―. 日本砂丘学会第 59 回全国大会、東京.

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今田省吾・舘野隆之輔・谷口武士・Acharya, K.・山中典和（2014 年 3 月）: アメリカ乾燥地 Tamarixramosissima 林における土壌の窒素循環. 第 61 回日本生態学会、広島

岩永史子・山本福壽・Ailijiang Maimaiti・吉田由美・森信寛・山中典和（2013 年 9 月）: 西表島に生育するマングローブ 4 種の浸透調整物質蓄積. 第 44 回日本緑化工学会大会、鳥取.

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額尔德尼・大手信人・遠藤いず貴・田中（小田）あゆみ・岡安智生・大黒俊哉・樋口篤志・那沁・山中典和・Undarmaa Jamsran・吉川賢（2013 年 5 月）: リモートセンシングを用いたモンゴル高原における草地生態系の長期変動の把握. 日本沙漠学会第 24 回学術大会、広島.

遠藤いず貴・大手信人・額尔德尼・大黒俊哉・Undarmaa Jamsran・川上聖・樋口篤志・山中典和・那沁・廣部宗・吉川賢（2014年3月）：モンゴル半乾燥地域におけるアクナテルム属群落の水利用特性．日本生態学会第61回全国大会、広島.

岡野晃子・藤巻晴行（2014年9月）：木綿布を用いた土壌表層塩分除去．農業農村工学会平成25年度大会、東京.

岡本昌憲（2014年3月）：植物ホルモン「アブシジン酸」受容体に対するアゴニストの同定とその利用」．第11回岡山理科大学グリーン元素科学シンポジウム、岡山.

岡本昌憲・Peterson Francis・Cutler Sean（2013年10月）：ケミカルスクリーニングによるABA受容体に対する新奇アゴニストの同定．植物化学調節学会、新潟.

岡本昌憲・Peterson Francis・Cutler Sean（2014年3月）：2量体型ABA受容体の活性化は、気孔の閉鎖、ABA応答性遺伝子の発現誘導、乾燥耐性ストレス耐性をもたらす．日本植物生理学会、富山.

黒崎泰典（2013年7月）：ダスト発生のメカニズムと黄砂研究の意義．2014年南極医学医療ワークショップ、立川.

黒崎泰典・阿不力提甫阿不来提・石塚正秀（2014年1月）：モンゴル・ツォクトオボーにおける砂塵観測．日本沙漠学会分科会・風送ダスト研究会「風送ダストに関する最近の話題と今後の展望」、春日.

黒崎泰典・篠田雅人・三上正男（2013年5月）：ダスト発生臨界風速による風食による砂漠化の評価．日本沙漠学会2013年度第24回学術大会、広島.

香口成美・岡田憲和・山本福壽・森信寛・山中典和（2013年9月）：中国乾燥地で植栽されるサリュウとハンリュウの耐塩性および浸透調節能．第44回日本緑化工学会大会、鳥取.

近藤謙介・塚田光祐・桐村聡子・安萍・松添直隆・和島孝浩（2013年10月）：培養液中のカルシムおよびマグネシウムの濃度がミズナの生育と無機成分含量に及ぼす影響．農業生産技術管理学会平成25年度大会、島根.

篠田雅人（2013年4月）：地球の気候はどのように変化してきたか．第350回サイエンス・アカデミー、鳥取.

竹内純・岡本昌憲・秋山智則・矢嶋俊介・須恵雅之・平井伸博・大西利・Cutler Sean・轟泰司（2013年10月）：ABA受容体PYLsの負のアロステリック調節因子AS6の熱力学的および構造的基盤．植物化学調節学会、新潟.

竹内純・岡本昌憲・大西利幸・轟泰司（2014年3月）：PYLアンタゴニストPAO4の生化学的機能解析．日本農芸化学会、川崎.

多炭雅博・Sayed Nader Nadery・竹下伸一・木村玲二（2013年11月）：地表面温度モニタリングによる土壌水分量推定のための基礎研究．日本雨水資源化システム学会第21回研究発表会、松江.

立石麻紀子・宮崎寛大・山本福寿・岡田憲和・山中典和（2013年9月）：中国内蒙古クブチ砂漠における植栽された小叶楊（*Populus simonii* Carr.）の水利用、成長量に与える埋砂の影響．第44回日本緑化工学会大会、鳥取.

谷口武士・黒崎泰典・伊藤健彦・Dulam Jugder・山中典和（2014年3月）：モンゴルの黄砂発生源地域における植生と土壌細菌群集．第61回日本生態学会、広島.

辻本壽（2013年11月）：遺伝資源としてのイネ科野生植物種とその育種利用．染色体学会公開シンポジウム、富山.

恒川篤史（2014年2月）：世界の食料生産を支える土地―地域と地球をつなぐもの―．第13回地球研地域連携セミナー　地球研・鳥取環境大学・鳥取大学合同シンポジウム、鳥取.

恒川篤史（2013年10月）：鳥取と砂漠．第57回宇宙科学技術連合講演会・特別講演、米子.

徳本家康・Heilman, J.L., McInness, K.J.・Morgan, C.L.S.・Kamps R.H.（2013年10月）：テキサスのカースト地形における土壌水分量の空間変動性．土壌物理学会2013、福島.

長島佳菜・鹿山雅裕・西戸裕嗣・黒崎泰典（2013年9月）：カソードルミネッセンスを用いた個別石英粒子の供給源推定．2013年度日本地球化学会年会、つくば.

永松大・山中典和・福本愛弓・杜盛・候慶春・張文輝（2013年9月）：黄土高原の山腹緑化に地形と降水量が与える影響．第44回日本緑化工学会大会、鳥取.

中南健太郎・樋口美栄子・吉積毅・岡本昌憲・Bashir Khurra・清水みなみ・大橋千広・田中真帆・松井南・篠崎一雄・関原明・花田耕介（2014年3月）：Characterization of functional small peptides in plant abiotic stress responses. 日本植物生理学会、富山.

松岡延浩・木村玲二・岩崎えり奈・加藤博・間野正美（2014年3月）：エジプトRashda村におけるコムギ収量に対する潅漑回数の影響．日本農業気象学会2014年全国大会、札幌.

松島大・木村玲二・黒崎泰典（2014年3月）：熱慣性を指標とする広域土壌水分条件の推定．日本農業気象学会2014年全国大会、札幌.

松本彩霞・石井孝佳・エリタエブアミンE・辻本壽（2013年11月）：イネ科の遠縁交雑における染色体脱落と動原体特異的ヒストンH3（CenH3）の関係．染色体学会2013年度年会、富山.

山梨達也・竹内純・岡本昌憲・大西利幸・轟泰司（2013年10月）：配座制限型PYLsアンタゴニストPAOnの生化学的機能解析．植物化学調節学会、新潟.

2.3　報告書／Reports

安萍・梶原真悟・井上知恵・李向軍・稲永忍（2013年7月）：塩類集積地における塩性植物の農業利用―中国渤海湾沿岸地区の塩類集積土壌を事例として―．日本砂丘学会誌　60: 9–18.

徳本家康（2013年8月）：2つ目の博士号を取得して，土壌の物理性　124: 51–53.

徳本家康（2013年4月）：平成25年　農業農村工学会学術基金報告　第3回国際農業学会の報告，農業農村工学会誌　82: 39–40.

2.4 公開セミナー／Open Seminar

1) Open seminar

1. Water for Agriculture in Eastern India (Apr. 10, 2013)
Sudhindra Nath PANDA
Prof. Indian Institute of Technology, Kharagpur

Prof. Panda gave a brief overview of academic and research activities of IIT Kharagpur and its Agricultural & Food Engineering Department. The outlines of his entire presentation were divided into (i) Land and water resource issues in eastern India; (ii) Simulation-optimization modeling in (a) canal irrigated commands, and (b) tubewell irrigated coastal groundwater basin; (iii) Artificial groundwater recharge; (iv) Optimum design of on-farm reservoir (OFR) in rainfed agriculture under (a) mono-cropping, and (b) partial crop substitution; and (v) Evaporation control from water bodies using biological shading. The conclusions of each of the aforementioned outlined areas of research were presented simultaneously for easy reference. Finally the list of publications of Prof. Panda in the aforesaid three areas of research interest was presented for future reference.

2. (Sep. 18, 2013)
(1) Breeding and Biotech Approaches to Tackle Cold-Induced Sweetening in Potato
Jiming JIANG
Professor, Department of Horticulture, University of Wisconsin-Madison
(2) Genetic Diversity for Drought Resistance in Wild Emmer Wheat and Its Potential for Wheat Improvement
Yehoshua (Shuki) SARANGA
Associate Professor, Crop Science, The Hebrew University of Jerusalem

3. Action for Combating Desertification and Afforestation in Sahel Region (Oct. 25, 2013)
サヘル地域における砂漠化防止と緑化の取り組み
Toshiki OKAMOTO　岡本　敏樹
Representative of Action for Greening Sahel NGO
緑のサヘル代表

Mr. Okamoto began his talk on living of people in Burkina Faso. Mobile phone has been widely used in cities, but still few in villages, he said. Most villages have not been electrified yet. Local people still spend much time for getting water from community wells. He stressed that easing their life is a prerequisite for sustainable action for greening. Thus much of activity of his NGO is put on enhancing income of local people such as improved cropping or beekeeping. He also presented their activity for technology transfer of contour stone bunds. They are promoting to plant a kind of blady grass around the bunds to weaken runoff so that the stones can be reused later on. He told that even if such new techniques may not be sustained in their life, the NGO's activities may promote change in their way of thinking and inventions by themselves.

4. Flood Disaster (Nov. 8, 2013)
洪水災害
Akira KAWAMURA　河村　明
Prof. Graduate School of Urban Environmental Sciences, Tokyo Metropolitan University
首都大学東京都市環境科学研究科・教授

Firstly, research topics including brief introduction of Tokyo Metropolitan University was presented. Flood disaster situation in the world comparing other natural disasters, in which flood cases happened in Metro Manila, the capital of Philippines in 2009, and in Bangkok, the capital of Thailand in 2011 were reported. Flood disaster situation in Japan, especially in Tokyo, the capital of Japan as well as its comprehensive flood control measures including structural and non-structural ones were explained. Finally, briefly a vector-based distributed runoff model -Tokyo Storm Runoff (TSR) model- utilizing advance GIS delineation developed by the laboratory was introduced.

5. Agriculture Research Council: Natural Resource Management in South Africa (Dec. 18, 2013)
Mitsuru TSUBO　坪　充
Agricultural Research Council-Institute for Soil, Climate and Water

6. Soil Water Environment of Mongolia Grassland (Jan. 14, 2014)
モンゴル草原における土壌水分環境
Sho SHIOZAWA　塩沢　昌
Professor, Laboratory of Land Resource Science, Graduate School of Agriculture and Life Science, the University of Tokyo
東京大学大学院農学生命科学研究科・教授

7. My Experience of Being Engaged in the Post-Conflict and/or Peace Building Assistance in Afghanistan (Jan. 15, 2014)
アフガン復興・平和構築支援に携わって
Yukako MATSUURA[1]　松浦　由佳子
Masashi SHIBATA[2]　柴田　雅史
Hisashi TSUJIMOTO[3]　辻本　壽
1: Consultant, International Development Solutions, Inc.
国際開発ソルーションズ・開発コンサルタント
2: Ex-Civil Engineering Expert, Peace Winds Japan and Student, Faculty of Agriculture, Tottori University
ピースウィンズ・ジャパン／現鳥取大学農学部学生（国際燥地科学）・元派遣専門家（土木施工）
3: Professor, Arid Land Research Center, Tottori University
鳥取大学乾燥地研究センター・教授

Three experts lectured on: a) Reflections on my days in Afghanistan; b) Perspectives from an NGO working in emergency assistance in Afghanistan; and, c) The roles I play in the Afghan Wheat Project. Ms. Matsuura talked about her experience of studying in the US and Australia in human rights and international relations, and how she came to work in Afghanistan. Her field activities in Afghanistan included support to the disarmed ex-combatants through vocational training. Mr. Shibata presented his experience in a low-cost infrastructure development project employing many local residents without using machinery. His experience was indicative of opportunities to expand such initiatives. Prof. Tsujimoto stressed the importance of using local knowledge

and materials in food crop breeding. The idea of using wheat stocks, collected in Afghanistan by Japanese scientists and kept in Japan for the last fifty years, fascinated the audience. The Seminar was held on January 15th 2014 at the Faculty of Agriculture, Tottori University, in collaboration with TU student's association "Sogoto International Development Study Club", and was attened by a total of 40 students and researchers.

8. Wheat Breeding at ICARDA: Achievement and Prospector (Feb. 3, 2014)
ICARDA におけるコムギ育種：成果と展望
Wuletaw TADESSE　タデッセ W.
Senior Spring Wheat Breeder 春播きコムギ主任育種家

9. 地形および土壌環境解析を用いたモンゴル・ゴビ砂漠における風成塵（黄砂）の長期的変動の復元
Kaoru KASHIMA　鹿島　薫
Faculty of Sciences, Kyushu University
九州大学・准教授

10. Special Open Seminar (Mar. 17, 2014)
(1) Water Crisis and Future Challenges in Palestine
パレスチナにおける水危機と未来への挑戦
Al-khalil SULEIMAN
Dean, Faculty of Agriculture and Veterinary Medicine, An-Najah National University
国立ナジャハ大学農獣医学部・学部長
(2) Food Security in Palestine - Problem Needs, and Inter ventions Through NARC's Research Programs
パレスチナにおける食料安全保障―課題と NARC の研究プログラムを通じた対処
Abu-Eid MOHAMMED
Director General, National Agricultural Research Centre
パレスチナ国立農業研究センター・所長

2) Asian Dust Seminar

1st Asian Dust Seminar (Apr. 17, 2013)
獣医病理学研究室研究進捗状況
(1) 砂塵嵐に曝露されたモンゴルのヒツジおよびヤギの肺の病理学的解析
(2) 吸入曝露黄砂類似粒子（関東ローム）による肺毒性の病理学的解析
Takehito MORITA　森田　剛仁
Professor, Faculty of Agriculture, Tottori University
鳥取大学農学部・教授

2nd Asian Dust Seminar (Jul. 3, 2013)
モンゴル半乾燥草原におけるCO_2収支の経年変動の推定
Tomoko NAKANO　中野　智子
Professor, Faculty of Economics, Chuo University
中央大学経済学部・教授

3rd Asian Dust Seminar (Sep. 18, 2013)
Effect of Grazing Pressure on Vegetation Structure of Mongolian Rangeland
Sergelen JAMBAL
Okayama University
岡山大学大学院・博士課程

4th Asian Dust Seminar (Nov. 18, 2013)
Vegetation and Vegetation Degradation in Mongolia
Undarmaa JAMSRAN
Head of Center for Ecosystem Studies, Mongolian State University of Agriculture

5th Asian Dust Seminar (Jan. 29, 2014)
バイオエアロゾルによって風成される微生物の生態学的特徴
Teruya MAKI　牧　輝弥
Faculty of Chemistry, Institute of Science and Engineering
金沢大学理工研究域物質化学系・准教授

3) Colloquium

3rd Colloquium (Jun. 10, 2013)
(1) Recent Increased Dust Events and Their Causes in East Asia
東アジアにおける近年の黄砂増加とその原因
Yasunori KUROSAKI　黒崎　泰典
Arid Land Research Center, Tottori University
乾燥地研究センター・助教
(2) Genetic Engineering of Drought and Salt Tolerance in Crop Plants
作物における耐乾性・耐塩性の遺伝子工学
Amin Elsadig ELTAYEB HABORA
Arid Land Research Center, Tottori University
乾燥地研究センター・助教
(3) Conservation Ecological Studies on Great Migration of Wildlife in Mongolia
モンゴルにおける野生動物の大移動の保全生態学的研究
Takehiko ITO　伊藤　健彦
Arid Land Research Center, Tottori University
乾燥地研究センター・助教
(4) Influences of Drying and Summer Rain Pulse on Belowground Ecosystem in a Semi-arid Region
半乾燥地における乾燥と夏の降雨が地下生態系に与える影響
Takeshi TANIGUCHI　谷口　武士
Arid Land Research Center, Tottori University
乾燥地研究センター・助教
(5) Chemical and Molecular Genetic Approaches Toward Generation of Drought Tolerant Crops
乾燥耐性作物の創出に向けた化学的・分子遺伝学的アプローチ
Masanori OKAMOTO　岡本　昌憲
Arid Land Research Center, Tottori University
乾燥地研究センター・助教

4th Colloquium (Sep. 12, 2013)
(1) Integrated Land and Water Resources Planning and Management in Semi-arid Regions of North-west India
北西インド半乾燥地における総合的土地・水土資源計画・管理
Sudhindra Nath PANDA
Arid Land Research Center, Tottori University
乾燥地研究センター・客員教授

(2) Impacts of Land Certification on Farmers' Perception and Land Management in Amhara Region, Ethiopia
エチオピア・アムハラ地域における土地証明書が農民の認識および土地管理に及ぼす影響
Enyew Adgo TSEGAYE,
Arid Land Research Center, Tottori University
乾燥地研究センター・客員准教授

(3) How Watershed Management Affects Hydrologic Response at River Basin Scale
河川集水域のスケールにおける流域管理が水文応答に及ぼす影響
Nigussie Haregeweyn AYEHU
JSPS Fellowship Researcher
日本学術振興会・特別研究員

5th Colloquium (Dec. 6, 2013)

(1) Integrating Dryland Disaster Science: 4D Project
乾燥地災害学の体系化：4D プロジェクト
Masato SHINODA　篠田　雅人
Arid Land Research Center, Tottori University
乾燥地研究センター・教授

(2) Recent Progress of the UNCCD - toward Zero Net Land Degradation -
国連砂漠化対処条約（UNCCD）の動向―ゼロネット土地劣化に向けて
Atsushi TSUNEKAWA　恒川　篤史
Arid Land Research Center, Tottori University
乾燥地研究センター・教授

6th Colloquium (Mar. 17, 2014)

(1) Rainwater Conservation and Reuse for Sustainable Agriculture in Rainfed Ecosystem of Eastern India
インド東部・天水利用エコシステムによる持続的農業のための雨水貯留と再利用について
Sudhindra Nath PANDA
Arid Land Research Center, Tottori University
乾燥地研究センター・客員教授

(2) Sensitivity and Resilience of Vegetation to Drought in Asian and African Drylands: A Measure of Ecosystem Vulnerability
アフロユーラシア乾燥地における植生の干ばつに対する感受性・復元力：生態系脆弱性の指標
Nandintsetseg BANZRAGCH
Arid Land Research Center, Tottori University
乾燥地研究センター・客員准教授

4) Special Seminar (Jun. 25, 2013)
Presented by "Asian Dust Project" and "Global Human Resource Development Project"
「黄砂プロジェクト」・「グローバル人材育成推進事業」共催特別セミナー
Aeolian Desertification in China
Tao WANG　王　涛
President, Lanzhou Branch of Chinese Academy of Science
中国科学院蘭州分院　院長

2.5 受賞

賞の名称：科学研究業績表彰
受賞者：黒崎泰典
受賞月日：2014 年 2 月 28 日
授与団体：鳥取大学
研究タイトル：東アジアにける近年の黄砂多発化の原因は何か？

賞の名称：日本砂丘学会学術賞
受賞者：乾燥地科学シリーズ編集委員会
受賞月日：2013 年 7 月 4 日
授与団体：日本砂丘学会

賞の名称：鳥取大学研究功績賞
受賞者：乾燥地科学シリーズ編集委員会
受賞月日：2014 年 2 月 28 日
授与団体：鳥取大学

2. 5 Honors and Awards

Name of Prize: Scientific Research Achievement Prize
Name of Recipient: Yasunori Kurosaki
Date: Feb. 28, 2014
Name of Offering Organization: Tottori University
Research Title: What caused a recent increase in dust outbreaks over East Asia?

Name of Prize: Academic Award
Name of Recipient: The Editorial Committee of Series on Dryland Science
Date: Jul. 4, 2013
Name of Offering Organization: Japanese Society of Sand Dune Research

Name of Prize: Research Achievement Award
Name of Recipient: The Editorial Committee of Series on Dryland Science
Date: Feb. 28, 2014
Name of Offering Organization: Tottori University

2.6 外部資金 / External Funds

平成 25 年度科学研究費補助金 / Grants-in-Aid for Scientific Research in FY 2013

研究種目 Research categories	氏名 Name	研究科題名 Research Title	
基盤研究(S) Scientific Research (S)	篠田　雅人 Shinoda, Masato	乾燥地災害学の体系化 Integrating dryland disaster sciences	
		研究分担者 Co-Investigator	黒沢　洋一（鳥取大学） 佐藤　源之（東北大学） 島田　章則（麻布大学） 立入　郁（海洋研究開発機構） 飯島　慈裕（海洋研究開発機構） 小宮山　博（国際農林水産研究センター） Kurozawa, Yoichi (Tottori University) Sato, Motoyuki (Tohoku University) Shimada, Akinori (Azabu Universiry) Tachiiri, Kaoru (Japan Agency for Marine-Earth Science and Technology) Iijima, Yoshihiro (Japan Agency for Marine-Earth Science and Technology) Komiyama, Hiroshi (JIRCAS)
基盤研究(A) Scientific Research (A)	恒川　篤史 Tsunekawa, Atsushi	国際河川・青ナイル川流域における土壌流亡緩和のための土地管理 Land Management to mitigate soil erosion and loss in the Blue Nile basin	
基盤研究(B) Scientific Research (B)	辻本　壽 Tsujimoto, Hisashi	節肥性を示す異色染色体添加コムギおよび合成コムギの遺伝育種学的研究 Genetical and Breeding studies on alien chromosome addition wheat line and synthetic wheat showing fertilizer-saving trait	
基盤研究(B) Scientific Research (B)	安田　裕 Yasuda, Hiroshi	乾燥環境下における外来植種の排他的侵入特性と地下水文系のヘテロ系との関連 Relationship between exclusive invasion of alien vegetation and heterogeneity of sub-surface zone in arid environment.	
		研究分担者 Co-Investigator	辻　涉（鳥取大学） 齊藤　忠臣（鳥取大学） 井上　知恵（鳥取大学） 依田　清胤（石巻専修大学） 中川　啓（長崎大学） 細川　土佐男（九州産業大学） 西山　浩司（九州大学） 縄田　浩志（秋田大学） 石山　俊（総合地球環境学研究所） 星野　仏方（酪農大学） 河合　隆行（新潟大学） Tsuji, Wataru (Tottori University) Saito, Tadaimi (Tottori University) Inoue, Tomoe (Tottori University) Yoda, Kiyotsugu (Ishinomaki Senshu University) Nakagawa, Kei (Nagasaki University) Hosokawa, Tosao (Kyushu Sangyo University) Nishiyama, Koji (Kyushu University) Nawata, Hiroshi (Akita University) Ishiyama, Shun (Research Institute for Humanity and Nature) Hoshino, Buho (Rakuno Gakuen University) Kawai, Takayuki (Niigata University)
基盤研究(B) Scientific Research (B)	木村　玲二 Kimura, Reiji	東アジア黄砂発生監視システムの開発 Development of monitoring system for Asian dust in East Asia	
		研究分担者 Co-Investigator	森山　雅雄（長崎大学） Moriyama, Masao (Nagasaki University)

研究種目 Research categories	氏名 Name	研究科題名 Research Title
基盤研究(C) Scientific Research (C)	伊藤　健彦 Ito, Takehiko	モンゴルの野生哺乳類大移動の保全：新規鉄道建設前の実態把握と建設後の影響評価 Conservation of wild mammals' great migration in Mongolia: Understanding the current condition and assessment of new railroad construction
基盤研究(C) Scientific Research (C)	藤巻　晴行 Fujimaki, Haruyuki	数値天気予報と作物の成長モデルを活用した灌漑水量の決定 Determination of irrigation depths using a plant growth model and quantitative weather forecast
若手研究(B) Young Scientists (B)	谷口　武士 Taniguchi, Takeshi	乾燥ストレス条件下における植物の生存戦略と微生物共生特性の解明 Research on the relationship between symbiotic microorganisms and stress tolerance of plants
若手研究(B) Young Scientists (B)	井上　知恵 Inoue, Tomoe	根寄生雑草ストライガの宿主養水分収奪戦略におけるアブシジン酸の重要性の解明 Role of abscisic acid in water and solute uptake from the host by the root parasitic weed *Striga hermonthica*
若手研究(B) Young Scientists (B)	ツェレンプル　バトユン Tserenpurev, Bat-Oyun	モンゴルの伝統食「馬乳酒」製造に関する伝統的知識の科学的検証と応用 Traditional and scientific knowledge of Airag (Fermented horse milk) production of Mongolia
特別研究員奨励費 JSPS Fellows	恒川　篤史 Tsunekawa, Atsushi	ポートフォリオ型気候変動適応・緩和方策としての流域管理の提案 Proposing watershed management as a portfolio climate change adaptation and mitigation measure
研究活動スタート支援 Research Activity Start-up	岡本　昌憲 Okamoto, Masanori	化学遺伝学的手法によるアブシジン酸受容の生理学的解析 Physiological analysis of abscisic acid receptors by chemical genetics approaches
研究活動スタート支援 Research Activity Start-up	徳本　家康 Tokumoto, Ieyasu	半乾燥地の農業における直接・間接的温室効果ガス発生要因の解明と予測モデルの開発

他機関からの研究分担者／Co-Investigator

研究種目 Research categories	氏名 Name	研究科題名 Research Title	研究代表者 Principal Investigator
基盤研究(A) Scientific Research (A)	安田　裕 Yasuda, Hiroshi	西アジア・アフリカ乾燥地における外来移入植物種メスキートの統合的管理方法の研究 A Study of Integrated Management Methods of Alien Invasive Species Mesquite in Arid Lands of West Asia and Africa	縄田　浩志（秋田大学） Nawata, Hiroshi (Akita University)
基盤研究(A) Scientific Research (A)	辻本　壽 Tsujimoto, Hisashi	東アジアに渡来・起源した作物資源の遺伝的評価と開発的研究 Genetic assay and study of crop germplasm introduced/originated in East Asia	加藤　鎌司（岡山大学） Kato, Kenji (Okayama Universitiy)
基盤研究(A) Scientific Research (A)	藤巻　晴行 Fujimaki, Haruyuki	灌漑管理統合評価指標の開発～改めて「良い灌漑とは？」 Development of integrated criteria for evaluation of irrigation management －redefining "good irrigation"	渡邊　紹裕（京都大学） Watanabe, Tsugihiro (Kyoto University)

研究種目 Research categories	氏名 Name	研究科題名 Research Title	研究代表者 Principal Investigator
基盤研究(A) Scientific Research (A)	篠田　雅人 Shinoda, Masato	モンゴル帝国成立史の解明を目指した環境考古学研究 Environmental archaeological study aiming at elucidation of the history of establishment of Mongol Empire	白石　典之（新潟大学） Shiraishi, Noriyuki (Niigata University)
基盤研究(A) Scientific Research (A)	藤巻　晴行 Fujimaki, Haruyuki	キャピラリー・バリア盛土による放射性廃棄物・汚染物質の長期貯蔵保管工法の提案 Proposal of the method of construction of preservation chamber for radioactive waste and contaminant using capillary barrier	森井　俊廣（新潟大学） Morii, Toshihiro (Niigata University)
基盤研究(B) Scientific Research (B)	辻本　壽 Tsujimoto, Hisashi	Biological nitrification inhibition (BNI) activity in wild-wheat (*Leymus racemosus*), and its chemical and genetical characterization	スバラオ・グントォール（国際農林水産業研究センター） Subbarao, Guntur (JIRCAS)
基盤研究(B) Scientific Research (B)	木村　玲二 Kimura, Reiji	アラブ水稀少社会における共存原理―灌漑耕作慣行を中心に Coexistence in water-scarce Arab societies − Irrigation and cultivation systems	岩崎　えり奈（上智大学） Iwasaki, Erina (Sophia University)
基盤研究(B) Scientific Research (B)	井上　知恵 Inoue, Tomoe	ストライガ低感受性ソルガムの抵抗性・耐性機構の解明 Mechanisms of resistance and tolerance to *Striga* infection in *Striga*-insensitive sorghum genotypes	杉本　幸裕（神戸大学） Sugimoto, Yukihiro (Kobe University)
基盤研究(B) Scientific Research (B)	篠田　雅人 Shinoda	モンゴルの「遊牧知」の検証と気象災害対策への活用	森永　由紀（明治大学） Morinaga, Yuki (Meiji University)
基盤研究(B) Scientific Research (B)	谷口　武士 Taniguchi, Takeshi	白砂青松の再生を目指して―複合微生物系を用いた迅速かつ機能的なマツ育苗技術の開発 For recovery of coastal Japanese black pine forest − Development of rapid and functional technique to raise pine seedlings with multiple microorganisms system	竹内　裕子（京都大学） Takeuchi, Yuko (Kyoto University)
基盤研究(C) Scientific Research (C)	木村　玲二 Kimura, Reiji	日本に到着する黄砂の発生域変動の検証 Verifying the emission area shift of Asian dust (Kosa) reaching to Japan	松島　大（千葉工業大学） Matsushima, Dai (Chiba Institute of Technology)