

3.2 Research Projects

All Divisions

Basic studies on the establishment of plant production system using sea water in the coastal arid land
Funded by COE program

Subdivision of Natural Environment

Studies on the wind climate and the sand movement in the Tottori Sand Dune
Allocation from the University Funds

Analysis of ground surface information by remote sensing
Allocation from the University Funds

Studies on the effect of water retentivity and thermal variation under soil surface mulching
Allocation from the University Funds

Comparison of the climate between urban and suburb areas
Allocation from the University Funds

Studies on the modification of the microclimate of the agricultural fields
Allocation from the University Funds

Analysis of ground surface information by remote sensing in arid land
Allocation from the University Funds

Researches on lightning and precipitation
Research of Requisition

Studies on the agricultural water management to promote sustainable agriculture in arid lands
Monbusho Grant-in-Aid for Scientific Research A(1)

Design of the atmospheric vapor distillator in arid regions
Monbusho Grant-in-Aid for Scientific Research A(1)

Systematization of upland irrigation planning based on the actual usage of water in fields
Monbusho Grant-in-Aid for Scientific Research A(1)

Development of efficient irrigation schedules and soil salinity monitoring system in productive green land
Monbusho Grant-in-Aid for Scientific Research A(2)

Subdivision of Water Resources

Movement of salt and water due to water uptake by plant roots
Allocation from the University Funds

Design and water management of micro irrigation
Allocation from the University Funds

Estimation of crop consumptive use of water
Allocation from the University Funds

Establishment of soil moisture measurement methods
Allocation from the University Funds

Development of technology for rehabilitation of salt accumulated soils in the Central Asia
Grant-in-Aid from Environment Agency

Soil and water properties for effective water management
Allocation from the University Funds

Prevention of soil erosion in surface irrigation method
Allocation from the University Funds

Studies on water management for sustainable irrigated agriculture in Pakistan

Monbusho's Grant-in-Aid for JSPS Fellows

Subdivision of Plant Ecophysiology

Development of plant production system using sea water

Monbusho Grant-in-Aid for Scientific Research B

Effect of root zone temperature on root growth

Allocation from the University Funds

Development of non-destructive measuring systems for root growth based on AE method

Allocation from the University Funds

Physiological mechanism of wheat on deep-sowing tolerance

Allocation from the University Funds

Search for germination stimulant of parasitic weed *Striga*

Allocation from the University Funds

Search for potential plants from semi-arid regions

Tottori Industrial Technology Association

Selection and characterization of salt-tolerant plant cells

Saneyoshi Scholarship Foundation

Isoquinoline biosynthesis in *Menispermum* root cultures

Kampou Science Foundation

Subdivision of Plant Production

Studies on crop tolerance to water deficiency and salinity

Allocation from the University Funds Apr.,1996 ~

Studies on practical aspects of melon cultivation on a sandponics bed system

Allocation from the University Funds Apr.,1996 ~

Growth promoting effects of extract from scallions

Allocation from the University Funds Apr.,1997 ~ Mar.,1998

Control of flower bud abortion in *Cymbidium*

Allocation from the University Funds Apr.,1997 ~ Mar.1998

Subdivision of Revegetation and Grassland Development

Dynamics of Pine trees on sand dunes

Allocation from the University Funds

Tree growth, and nutrient and water dynamics of trees and in the soil

Allocation from the University Funds

Growth and reproductive characteristics of woody plants

Allocation from the University Funds

Ecological studies on sand dune vegetation

Allocation from the University Funds

Maintenance mechanisms of plant communities in arid areas

Allocation from the University Funds

Land use and regeneration mechanisms of woody plants in semi-arid areas of east China

Nippon Life Insurance Foundation

Subdivision of Land Conservation

Development of efficient irrigation schedules and soil salinity monitoring system in productive green land

Monbusho Grant-in-Aid for Scientific Research A(2)

Development of non-destructive measurement of salt movement during salt accumulation and leaching and soil texture, water level and cultivation

Monbusho Grant-in-Aid for Creative and development research program

Studies on water quality of irrigation water resources in the Tohaku irrigation project

Ministry of Agriculture, Forestry and Fisheries

Soil salinity improvement using artificial zeolite

Research of Requisition

Simultaneous movement of salt and water in unsaturated sand

Allocation from the University Funds

Non-destructive measurement of moisture and salt in unsaturated soil

Allocation from the University Funds

Estimation of hydraulic properties using multistep inverse method

Allocation from the University Funds

Subsurface irrigation using seeping type porous rubber tube

Scholarship fund for research from Nippon Sanso Co.

Development of simplified soil moisture sensor

Scholarship fund for research from Hama Corporation

Dune sand improvement using recycled paper

Scholarship fund for research from Ikedaya Kamiki Co.