

Shizuoka Institute of Environment and Hygiene

**Protecting Shizuoka's Environment
and the Health of Shizuoka's Citizens**



Activities

The Shizuoka Institute of Environment and Hygiene is the scientific and technological center for the environment and public health in Shizuoka Prefecture. As such, it conducts a wide variety of investigative testing and research, as well as regular monitoring and measuring, in order to protect the health of Shizuoka's residents. The Institute regularly informs residents of its findings.

Investigation and Research

The Institute conducts research related to creating new medicines (as a part of the Pharma Valley project) and the effective use of water resources from Mt. Fuji. It also carries out prompt inspections of pathogenic microbes and deals with important issues such as new technology related to pharmaceuticals and foods, the atmosphere, and water protection and safety. Other issues dealt with include problems closely related to the lives of people in Shizuoka and problems anticipated for the future.

Testing

The Institute performs tests on pathogenic microbes, pharmaceuticals, foods, and poisonous and harmful substances. It also carries out various testing, including tests on commercial products, in order to help the government improve public health and consumer life.

Regular Monitoring and Measuring

The Institute regularly observes and monitors the atmosphere, water quality and noise in order to protect the residents of Shizuoka Prefecture.

Crisis Management

The Institute protects prefectural residents from severe crises involving new infectious diseases, harmful food products, air pollution, and water pollution in rivers, lakes, and marshes, using advanced analytical technology.

Training Guidance

The Institute uses its specialists' knowledge to provide instruction and technical guidance on environmental, public health and consumer issues to prefectural residents, as well as to municipal and public health center employees.

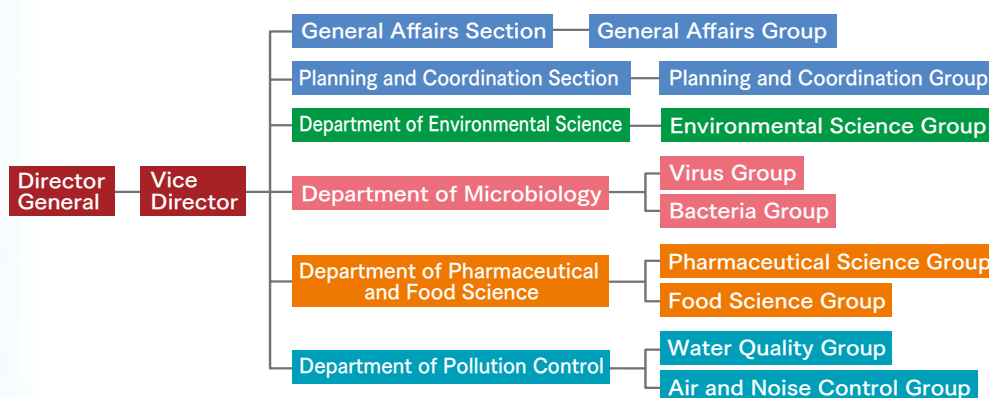
Environmental Education

The Institute aims to educate people to actively participate in constructing a sustainable society and instructs them on environmental conservation. It also supports individuals and groups conducting environmental education.

Dissemination of Information

The Institute disseminates the results of its research, study, and monitoring and measuring by participating in scientific societies, publishing academic papers, arranging research presentations, and providing information on the Internet.

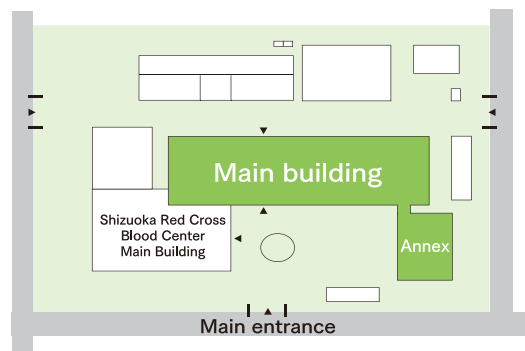
Organization



Land and Institutions

April 1, 1982
The Institute of Hygiene and the testing sections of the Pollution Prevention Center and Central Consumer Affairs Center were integrated to form the Shizuoka Hygiene and Environment Center.

April 1, 1997
Renamed The Shizuoka Institute of Environment and Hygiene.



General Affairs Section

- General administrative operations
- Annual revenue and expenditures accounting, asset management
- Employee welfare and human resources

Planning and Coordination Section • Planning and Coordination Group

- Organization and promotion of research
- Assistance with environmental studies and management of environmental study room
- Cooperation with universities in the prefecture and management of research assistants
- Publicity of Institute activities
- Intellectual property rights acquisition and maintenance
- Acquisition of competitive external funding



Department of Environmental Science

Environmental Science Group

- Environmental research on hazardous trace chemicals
- Analysis of chemicals used at golf courses through water testing
- Environmental monitoring of chemicals (commissioned by the Ministry of the Environment)
- Testing for organotin compounds (TBT, TPT) in ports
- Development of measurement methods for indoor environmental pollutants
- Research on final waste disposal sites
- Research on stress diagnosis for and environmental monitoring of plants
- Assessment of Green Curtain practicality
- Research on the distribution and lifestyle of the non-native *Chamberlinius hualienensis*
- Research on water resources in the area around Mt. Fuji
- Research on local energy using groundwater and spring water in the area around Mt. Fuji



Testing substances in the middle of the sea



Measurement of groundwater temperature in observation well

Department of Microbiology

Virus Group

- Examination of viruses causing food poisoning and outbreaks of infectious diseases
- Examination of infectious viruses and rickettsia based on from clinical samples as a national surveillance project
- Seroprevalence of vaccine-preventable diseases (influenza, measles)
- Distribution of infectious disease-related information as an infectious disease information center
- Study on factors involved in the spread of Norovirus-related food poisoning
- Studies regarding the prevalence of drug-resistant influenza viruses



Examining viruses through an electron microscope

Bacteria Group

- Examination of bacteria causing food poisoning and outbreaks of infectious diseases
- Detection of infectious bacteria and parasites from clinical samples as a national surveillance project of surveillance
- Inspections regarding food safety standards
- Inspections regarding food allergens
- Microbiological examination of pharmaceuticals and medical equipment
- Research regarding testing methods for foodborne pathogens
- Study and research of parasite-caused food poisoning (*Kudoa septempunctata*, etc.)
- Examination and research of drug-resistant bacteria
- Inspection and study of pathogenic microbes (*Legionella* genus bacteria, etc.) in environmental water (hot springs, etc.)



Isolation of pathogenic bacteria

Department of Pharmaceutical and Food Science

Pharmaceutical Science Group

- Inspection of pharmaceutical products
- Quality control training for pharmaceutical manufacturers
- Detection of illegal drugs
- Operation of Shizuoka Chemical Compound Library
- Supply of compounds to cooperating institutions
- Organic synthesis and optimization of pharmaceutical candidate compounds



Organic synthesis of pharmaceutical candidate compounds

Food Science Group

- Detection and examination of pesticide residues in foods
- Analysis of aflatoxins in foods and harmful metals in seafoods
- Testing of products receiving complaints or other public attention
- Lectures of product testing for consumer groups and families



Lecture of product testing for families

Department of Pollution Control

Water Quality Group

- Regular monitoring and research of public water
- Regular monitoring and research of groundwater quality
- Environmental monitoring relating to dioxins



Field survey of environmental water quality

Air and Noise Control Group

- Regular atmospherical monitoring and research using telemetry (Sulphur dioxide, nitrogen oxide, photochemical oxidant, suspended particulate matter)
- Measurement of and research on harmful air pollutants (Acrylonitrile, vinyl chloride monomer, dichloromethane)
- Monitoring of and research on noise and vibration
- Instruction regarding spread of technology for combating noise, vibration and odors prevention instruction
- Environmental (air) monitoring of asbestos
- Measurement of and research on acid rain



PM 2.5 research and measurement by air quality measurement vehicles

Shizuoka Institute of Environment and Hygiene

27-2, Kitaando-4chome, Aoi-ward, Shizuoka-city, 420-8637 Tel.054-245-0201 Fax:054-245-7636
E-mail:kanki@pref.shizuoka.lg.jp Homepage:<http://www6.shizuokanet.ne.jp/eikanctr/>