Environmental Parasitology

Lecture (Code: 0471, 1st-year: 4 units, 2nd-year: 2 units)
Practice (Code: 0472, 1st-year: 2 units, 2nd-year: 2 units)
Lab (Code: 0473, 1st-year: 2 units)

1. **Instructors:**
   Professor Nobuo Ohta  Associate Professor Nobuaki Akao  Assistant Professor Rieko Shimogawara Takashi Kumagai
   Contact person: Nobuo Ohta  T E L. 5803-5191  E-mail matata.vip@tmd.ac.jp

2. **Course Description and Timetable**
   **Lecture**
   Goals/outline:
   Infectious diseases are most urgent health problem in the 21st Century on the background situations of recent rapid increases in tourism and trading, ecological changes, and/or social infrastructural development. Appearance of drug-resistant pathogens and liable human hosts to infectious diseases are additional important matters. Parasitic infections have unique features in infectious diseases because of the big impact of social culture and human behavior, and those factors make the disease control difficult. In the lecture, the unique host-parasite interactions will be introduced from the view points of in vitro and in vivo analyses, and ecology of parasites, molecular biology, immune responses of the infected hosts and others are also included in the lecture course.

   Available programs:
   - Lecture: Schedule will be announced
   - Special Lecture: Schedule will be announced
   - Seminar: Schedule will be announced
   - Journal Club: Wednesday morning
   - Conference: Schedule will be announced

   **Practice**
   Goals/Outline:
   Diagnosis, pathogenesis and prognosis are covered by the use of clinical materials. Approaches are morphology, pathology, molecular biology and others. Philological practice is also covered.

   Available programs:
   - Diagnosis of clinical materials: on the occasion
   - Field study: on the occasion
   - Journal club: Wednesday morning

   **Lab**
   Goals/Outline:
   To understand host-parasite interactions, experimental pathological/immunological analyses of parasitic infections.

   Available program:
   - Parasitological experiment: on the request
   - Infection experiments
   - Laboratory maintenance of parasite strains
   - Histopathology
   - Cell culture and immunological study
   - Methods for molecular study on parasites

3. **Format:**
   Because of small class lecture and practice, prior contact is needed.

4. **Venue:**
   Conference room and Laboratory of Environmental Parasitology (16th Floor, M & D Tower)

5. **Grading:**
   Performance at Lecture, Practice and Lab are evaluated.

6. **Notes:**
   Nothing particular.