理学研究科のグローバルキャンパスを目指す台湾清華大学との試み

大阪大学大学院理学研究科 教授 久保孝史
Departments and Institutes of GSS

Mathematics and Natural Sciences
- Mathematics
- Physics
- Chemistry
- Biological Science
- Macromolecular Science
- Earth and Space Science

Cooperative Institutes
- Research Center for Structural Thermodynamics
- Project Center for Fundamental Sciences
- Center for Advanced High Magnetic Field Science
- Research Center for Nuclear Physics
- Institute of Laser Engineering
- Institute of Scientific and Industrial Research
- Institute for Protein Research
International Program (based on G30)

- Classes given in English
- Administrative affairs in English
- Entrance Examination via Internet
- Examination Fee waiver
Supports & Entertainments

✓ Administrative affairs in English
✓ Health and mental cares in English
✓ International Exchange Salon

✓ Science Buddy (organized by Japanese Students)
  • Welcome Party
  • International Food Party
  • New Years Party (Rice cake making and Karuta Game)
  • Japanese Half-Hour
  • Yukata de Party

✓ Bus Tour (1 day excursion)
International Exchange Program of GSS

Short-Term Non-Degree Program

- **OUSSEP**: Osaka University Short-Term Student Exchange Program
- **Maple**: Special Japanese culture-language program
- **FrontierLab@OsakaU**: One or half-year research-based program

Double Degree Program

- DDP allows candidates to benefit from different research methods and scientific approaches from both institutes.
- DDP provides an opportunity to develop a long-term research partnership between institutions.
- DDP is tailor-made based on requirements of each institution and candidate.
## Structure of double/joint degrees

### Double Degree
- Degree A
- Degree B
- Thesis A
- Thesis B
- Research A
- Research B
- Sending U. (Home)
- Receiving U. (Host)

### Dual Degree
- Degree A
- (joint committee)
- Degree B
- Thesis
- Research A
- Research B
- Sending U. (Home)
- Receiving U. (Host)

### Joint Degree
- Degree
- Thesis
- Res. A
- Res. B
- Res. C
- consortium
Model Scheme of DDP

Master

- Sending U. (0.5 y)
- Receiving U. (1 y)
- Sending U. (0.5 y)

- Course work (12 credits at GSS-OU, 1 credit = ~12 hr)
- Research work (18 credits at GSS-OU)
- Up to 10 credits out of 30 credits can be exchanged between universities.

Ph.D.

- Sending U. (1 y)
- Receiving U. (1 y)
- Sending U. (1 y)

- Course work (2 credits at GSS-OU)
- Research work (9 credits at GSS-OU)

- Up to 5 students / year
- Entrance & Tuition fees are waived at Receiving U.
- Master/PhD. studies are based on collaborative works between professors.
Agreement of DDP

GENERAL PART

1. Outline of the program
2. Conditions for granting degrees
3. Character of coursework and examinations
4. Status, registration, and withdrawal of students
5. Selection of applicants for enrollment
6. Financial issues
7. Issues pertaining to intellectual rights
8. Issuing and conferral of Master/Ph.D. degrees
9. Implementation system
10. Miscellaneous issues
11. Continuation and termination
12. Disputes

COTUTELLE PART

- Name of Student
- Title of Master/PhD studies
- Name of Supervisors
- Class list
- Reviewer’s name
- Place of defense
**Process for DDP**

**Survey on Partner Universities**
- Research field
- Faculty members
- Potential collaborations
- Workshops

*Know each other*

**MOA, MOU and Double Degree Agreement**
- Prepare in advance for conducting DD program, even if no candidate

*Get ready for DD*

**Cotutelle Agreement**
- Sign up for each candidate
- Ad hoc

*DD starts!*

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**Partner Universities**
- Al Farabi Kazakh National University, Kazakhstan
- De La Salle University, Philippine
- National Tsing Hua University (College of Life Science, College of Science, Taiwan)
- Vietnam National University – Ho Chi Minh City, Vietnam
- University of Malaya, Malaysia
- Institut Teknologi Bandung, Indonesia
Actions to know each other

Know partners

- Visit potential candidate universities, to introduce GSS and to know partners
- Invite professors from partner universities
- Workshop on research
- Invite students by SAKURA Science Plan (10 students, one week)
- Invite students by FrontierLab@OsakaU (a couple of students, one to six months)
- Visit partner universities and discuss with DDP candidate students about the possibility of collaborative works

Mostly supported by CAREN
National Tsing Hua University (Taiwan)
- College of Life Science
- College of Science

- Faculty and students exchange between CLS-NTHU and GSS-OU
- Visit CS-NTHU to discuss about DDP and to introduce GSS-OU
- Invite CLS-NTHU Faculty members to conclude the DDP agreement and to hold a workshop
- Visit CS-NTHU to discuss about DDP and introduce GSS-OU
- Invite CS-NTHU Faculty members to conclude the DDP agreement and to hold a workshop
- SAKURA Science Plan (JST) to invite students
- A DDP candidate is now being evaluated.
構造生物学から神経生物学まで
台湾精華大学生命科学研究科の先端研究と教育 公開講演会
2015年7月27日（火）13:30−16:30理学研究科 D501

1:30-2:00  Prof. Ann-Shyn Chiang
研究科長 教授
Toward integrative connectome in Drosophila
ショウジョウバエのすべての脳神経細胞の立体的可視化

2:00-2:30  Prof. Yuh-Ju Sun
構造生物研究所教授
Membrane-Bound Pyrophosphatase: A Primary Proton Pump
膜結合H⁺輸送ピロリン酸ポンプの立体構造

2:30-2:40  Intermission

2:40-3:10  Prof. Wen-guey Wu
構造生物学部門教授
From snake venomics to extracellular matrix
蛇毒から細胞外マトリックスの構造まで

3:10-3:40  Prof. Yuh-Chun Lin
化学生物学部門准教授
Rapidly manipulating molecular activities in primary cilia by chemical biology approaches
化学生物学手法による一次繊毛の機能解明

3:40-4:00  Prof. Linyi Chen
分子医科学部門准教授
Life and Science at Tsing Hua
精華大学の研究・教育と大学生活について

*理学研究科と精華大学生命科学研究科は、ダブルディグリープログラムを開始し、国際化を目指します。

主催: 理学研究科、生物科学専攻、化学専攻、高分子科学専攻 アジア人材育成研究・教育拠点 (CAREN)

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Thank you for your kind attention!