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ACGT is a European Commission co-funded project that develops open-source, semantic and grid-based technologies in support of post-genomic clinical trials in cancer research.

ACGT project:

Project Coordinator: ERCIM EEIG
Contact person: Remi Ronchaud
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Scientific Coordinator: FORTH
Contact person: Manolis Tsiknakis
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Duration: 02/2006 to 01/2010
Total cost: € 16 747 206
EC funding: € 11 887 000
Instrument: Integrated Project
Project Identifier: FP6-IST-026996



Hokkaido University's role in a European Union FP6 Integrated Project

www.eu-acgt.org



design: healthgrid.org

Meme Media Laboratory (VBL)
and Graduate School of Information Science and Technology
Hokkaido University, Sapporo, Japan

北海道大学知識メディア・ラボラトリー (VBL)
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The **EU Framework Programmes** are the main source of research funding in the European Union. The First Framework Programme ran from 1984 to 1987; the Sixth Programme, FP6, from 2002 to 2006.

Since FP4, research partners from outside Europe have also been welcome. Conditions for a Japanese organisation to join an ICT project in FP6:

- Conformity with the mutual interests of EU and Japan
- Substantial added value for implementing EU Science Policy
- Inclusion of a minimum number of legal entities from the Community and Associated States (3 + 1); project coordinator must be one of these
- No financial support from the EC for Japan-based organisations
- Japanese organisations established in EU or associated states can receive financial support

ACGT is one of 10 ICT projects in FP6 (including 7 Integrated Projects) that include a Japanese partner.

FP6 had a total budget of €17.5bn (approx. ¥2trn at 2002 rates). FP7 runs from 2007 to 2013 with a budget of over €50bn.

Hokkaido University's participation in ACGT

We were invited as the sole non-European member of the 25-partner, 13-country ACGT consortium on the basis of our graduate school's combination of computer science and bioinformatics research groups, and our long-standing research connections with FORTH, the project's scientific coordinators.

Our participation has been funded with the help of Japanese government research grants – initially under the JSPS Core-to-Core Programme, and later through the Global Centre of Excellence established at the graduate school.



Computer Science

Bioinformatics

Yuzuru Tanaka – professor, laboratory director
 Aran Lunzer – GCOE assoc. professor
 Mücke Kuwahara – system engineer
 Jérémie Julia – student intern (from UM2-Polytech'Montpellier)

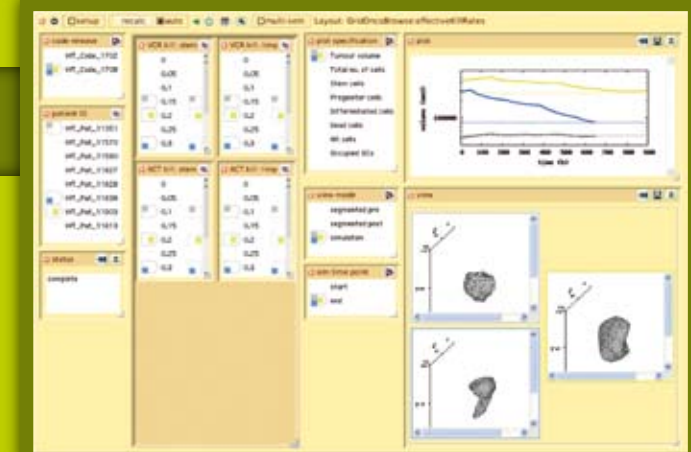
Toshinori Endo – professor
 Katsuhiko Mineta – assoc. professor

Our implementation responsibilities

1. Development of a graphical Trial Outline Builder (TOB) for ObTiMA, ACGT's ontology-based clinical-trial management tool. ObTiMA development is led by the University Hospital of the Saarland, Germany. The TOB is built using our "WebbleWorld" meme-media environment, resulting in an application within which a trial chairman can build, by simple direct-manipulation operations, a trial outline that simultaneously serves as:
 - a. a graphical view of the trial as a whole, editable by the trial chairman to reflect major updates to the treatment protocol
 - b. the interface to be used by doctors to enter the progress of their individual patients through the trial
 - c. the interface to be used by the trial chairman or ethical committee to track multiple patients' progress and perform queries against their data



2. Development of the **OncoRecipeSheet**, a graphical front end for generating and comparing results from in-silico modelling of tumour growth and therapy response, as supported by the ACGT OncoSimulator.



Work on the OncoSimulator is led by the National Technical University of Athens, Greece. Our front-end interface is based on the RecipeSheet, a spreadsheet-like environment that incorporates so-called subjunctive interface techniques to support the viewing of multiple cases side by side to facilitate their comparison.