

# Evolution of Integrated Medical Sciences

## 統合医科学のすすめ



International Research and Educational Institute for  
Integrated Medical Sciences (IREIIMS)

国際統合医科学インスティテュート

**IREIIMS**

Tokyo Women's Medical University

東京女子医科大学

# **Evolution of Integrated Medical Sciences**

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IREIIMS is supported by the Program for Promoting Establishment of Strategic Research Centers, Special Coordination Funds for Promoting Science and Technology, Ministry of Education, Culture, Sports, Science and Technology.



# 統合医科学のすすめ

国際統合医科学インスティテュート (IREIIMS)

東京女子医科大学

IREIIMSは文部科学省 科学技術振興調整費「戦略的研究拠点育成プログラム」により実施されています。

本報告書は、文部科学省の科学技術総合研究委託費による委託業務として、学校法人東京女子医科大学が実施した「戦略的研究拠点育成、国際統合医療研究・人材育成拠点の創成」の成果を取りまとめたものです。

従って、本報告書の複製、転載、引用等には文部科学省の承認手続きが必要です。

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# Introduction

**Makoto Iwata, M.D., Ph.D.**

President, IREIIMS

Acting President, Tokyo Women's Medical University



The International Research and Educational Institute for Integrated Medical Sciences (IREIIMS), which was proposed by Tokyo Women's Medical University, was inaugurated on October 1st, 2005, supported by the "Program for Promoting the Establishment of Strategic Research Centers" (commonly known as the "Super COE") of the Special Coordination Funds for Promoting Science and Technology, the Ministry of Education, Culture, Sports, Science and Technology.

There has been rapid advancement in medicine and medical services, with areas of discipline becoming highly specialized and independent. As a result, the level of cooperation and exchange among them has declined, affecting not only research activities, but also the quality of daily clinical services.

It is against this backdrop that needs are growing for a more comprehensive approach to research, calling for the participation of researchers and doctors not only from medicine and biology, but from many other fields including engineering and social and cultural studies. Currently, it is customary to treat patients after symptoms have appeared, but this approach is also changing. The emphasis is now shifting to prevention, *i.e.*, to detect potential problems in advance and treat them before they become a serious health threat. We need to make a shift from treatment to prevention as a paradigm of medical services. Today, medical practices are centered on Western medicine, but traditional or alternative knowledge can be added to make our services more effective. It is therefore important to scientifically examine such traditional

knowledge and its usefulness.

This Institute was set up with a view to observing the progress in medicine and medical services and promoting the research and education of medical science with a broad outlook. It has been one and a half years since its establishment, during which disease-triggering genes have been studied, early detection methods proposed, and new treatment methods tried. Special research emphasis is being placed on the following diseases: cancer, heart ailments, stroke, dementia, rheumatism, diabetes, and skin ailments.

In order to properly evaluate the vast amounts of clinical data, they need to be properly analyzed by means of statistical epidemiology. By analyzing the individual data of many patients, we can begin to construct "bespoke medical services," by which drugs that exactly suit the needs of each patient can be selected. Further, scientists are also establishing the basis of Cyber Integrated Medical Infrastructure (CIMI), in which data from hemobiochemical examinations and other studies are gathered for the prevention of diseases from a statistical point of view. A program designed to nurture human resources who can practice CIMI in the future is also being implemented.

This book describes the nature of target integrated medical services in simple terms for people without expert knowledge. We welcome your frank opinions about the contents, and ask for your kind support for the future progress of this Institute.

IREIIMS 統括責任者・所長  
東京女子医科大学 学長代行

## 岩田 誠

平成17年度の文部科学省科学技術振興調整費「戦略的研究拠点育成プログラム（通称：スーパーCOE）」に、東京女子医科大学から申請した「国際統合医科学研究・人材育成拠点の創成」と題するプログラムが採択され、本インスティテュートは2005年10月1日に開設されました。

今日の医学・医療は急速に進歩しており、各分野があまりにも専門化、独立化してきたため、お互いの交流、協力が希薄になり、その弊害は研究面のみならず、日常の診療にも現れてきました。

そこで、各分野の研究者や医師に、単に医学、生物学分野だけでなく、理工学さらに人文、社会学分野の研究者も含め、人材を広く内外から集めて、統合的な研究を進めることが求められて参りました。一方、今日の医療は、何らかの症状が現れてから治療を行うことが一般的な習慣になっていますが、これからは症状が出現する前に発見して予防をすることが求められ、医療の本質を治療から予防へとパラダイムシフトすることが必要です。また、現在の西洋医学中心の医療に、伝統的または代替医療を加えることにより、一層治療効果が上がることも考えられますので、そのような伝統的医療や代替医療の有用性を科学的に検証することも大切であります。

このような観点から、これからの医療と医科学の進

歩を展望し、広い視野を持って医科学の研究と教育を実施するために、新しい機構を創設したわけでありませす。このインスティテュートの研究が開始されてから1年半が経過しましたが、その間に病気の原因となる遺伝子の解析、病気を早期に発見するためのさまざまな方法、発見された病気を治療する新しい方法などの研究が積極的に行われています。研究上目的とする病気の中で、特にがん、心臓疾患、脳卒中、認知症、リウマチ、糖尿病、皮膚病などについて、それぞれの研究が進められています。臨床的な結果を正しく評価するためには、莫大な資料の統計疫学的な解析が必要です。多数の患者さんの資料の分析から、患者さん一人ひとりに合った薬が選択できるような、いわゆるオーダーメイド医療の基礎が完成してきています。また、血液生化学検査などの情報を集めて、統計学的視点から病気を発見、予防するための統合医科学情報基盤（CIMI）も確立しつつあります。一方、将来統合医科学が実践できる人材を育成する教育事業も進行しています。

本書は、私どもの目指す統合医科学の内容を、できるだけわかりやすく説明するように企画いたしましたので、皆様からの御意見が伺えれば幸いです。また、本インスティテュートの今後の発展に、暖かい御支援を賜りますようお願い申し上げます。



# Appendix

## List of IREIIMS Seminars

### First Seminar – August 15th, 2005

#### “Adult Stem Cells and Regenerative Medicine – Lessons learned from the Heart”

Bernardo Nadal-Ginard, IREIIMS Research Management CAO, and Prof. of Medicine, Mount Sinai School of Medicine, New York City

### Second Seminar – October 20th, 2005

#### “What We Expect from IREIIMS”

Nobuhiro Muroya, Director, Office for the Special Coordination Funds for Promoting Science and Technology, Ministry of Education, Culture, Sports, Science and Technology

#### “Diseases as Viewed from the Genome”

Naomichi Matsumoto, Prof., Dept. of Human Genetics, Yokohama City University Graduate School of Medicine

### Third Seminar – November 24th, 2005

#### “Integrated Medical Sciences and Traditional Medicine”

Jong-Chol Chong, Prof., IREIIMS

#### “Diagnosis of Arteriosclerosis and Autonomic Imbalance”

Masatoshi Mikami, Aomori Keijin Hospital.

#### “Ryoudoraku and Autonomic Nerves”

Nobuyuki Ochi, Director, Ryoudoraku Research Institute Ltd.

### Fourth Seminar – December 5th, 2005

#### “The Relationship between Heart Development and Disease Factors”

Deepak Srivastava, Prof. and Director, Gladstone Institute of Cardiovascular Disease, University of California San Francisco

### Fifth Seminar - January 18th, 2006

#### “Endothelin and Endothelial Dysfunction”

Tomoh Masaki, IREIIMS Research Management Leader and President, Osaka Seikei University

### Sixth Seminar - February 23rd 2006

#### “Myocardial Regeneration Procedure as Clinical Routine – Utopia or Realistic Future?”

Bernardo Nadal-Ginard, IREIIMS Research Management CAO and Prof. of Medicine, Mount Sinai School of Medicine, New York City

### Seventh Seminar -March 6th, 2006

#### “Establishing Evaluation Methods for the Effectiveness of Integrated Medicine – as Approached by Proteomic Methods”

Toshikazu Yoshikawa, Prof., Dept. of Internal Medicine, Kyoto Prefectural University of Medicine

### Eighth Seminar - April 20th, 2006

#### “Education in the Medical and Biological Sciences”

Yoshito Kajiro, Prof. Emeritus, the University of Tokyo and Prof., Horizontal Medical Research Organization of Kyoto University Medical School

### Ninth Seminar - May 25th, 2006

#### “Differences in Individual and Collective Situations – Component Analysis and Broad Perspective”

Hiroyuki Toyokawa, Prof., Headmaster of The Tokyo School of Food and Nutrition

### Tenth Seminar - June 15th, 2006

#### “Gene Therapy of Mitochondrial Diseases using Mitomice Carrying Pathogenic mtDNAs ”

Jun-ichi Hayashi, Prof., Graduate School of Life and Environmental Sciences, Center for Tsukuba Advanced Research Alliance (TARA), University of Tsukuba

### Eleventh Seminar - July 20th, 2006

#### “Science of Communication”

Yoh'ichi Tohkura, Prof., Deputy Director General, National Institute of Informatics

### Twelfth Seminar - August 24th, 2006

#### “Relationship between the Structure and Function of Hemoglobin Molecules”

Keizo Tsushima, Emeritus Prof., Yokohama City University and Editor of the Journal “Vita”

### Thirteenth Seminar - September 28th, 2006

#### “A Gift from Nature – Birth of the Largest Selling Drug in History”

Akira Endo, Honorary Prof., Tokyo University of Agriculture and Technology and President, Biopharm Research Institute K.K.

### Fourteenth Seminar - October 19th, 2006

#### “Tissue Regeneration through Injectable Tissue Engineered Nano-scaffold”

Hossein Hosseinkahni, ICYS Research Fellow

### Fifteenth Seminar - November 16th, 2006

#### “Innovation and Human Resource Development”

Tetsuhiko Ikegami, Vice-President, National Institute of Advanced Industrial Science and Technology

### Sixteenth Seminar - January 25th, 2007

#### “A Tumor Suppressor Gene *Kank* – Its involvement in the Suppression of Actin Polymerization”

Ryoiti Kiyama, Chief, Signal Transduction Laboratory, National Institute of Advanced Industrial Science and Technology

### Seventeenth Seminar - March 15th, 2007

#### “Pain and Plasticity – Multidisciplinary Approach for Chronic Pain”

Takao Kumazawa, Prof., Dept. of Algesiology, Aichi Medical University School of Medicine and Prof. Emeritus, Nagoya University



## 別 表

### IREIIMSセミナー開催リスト

#### 第1回 2005年8月15日

「生体幹細胞と再生医療 - 心臓よりの教訓」

Bernardo Nadal-Ginard

IREIIMS研究マネージメントCAO、マウントサイナイ医科大学心臓血管研究所教授

#### 第2回 2005年10月20日

「IREIIMSに期待するもの」

室谷展寛 文部科学省科学技術振興調整費室室長

「ゲノムからみえる疾患の姿」

松本直通 横浜市立大学大学院医学研究科環境分子医科学部門教授

#### 第3回 2005年11月24日

「統合医科学と伝統医療」

丁宗鐵 IREIIMS教授

「動脈硬化と自律神経失調の診断」

三上正俊 青森敬仁会病院内科

「良導絡と自律神経」

越智信之 良導絡研究所所長

#### 第4回 2005年12月5日

「心臓発達と疾患成因との関係について」

Deepak Srivastava

カリフォルニア大学サンフランシスコ校Gladstone心臓血管疾患研究所所長・教授

#### 第5回 2006年1月18日

「エンドセリンと内皮不全」

眞崎知生 IREIIMS研究マネージメントリーダー・顧問、大阪成蹊大学学長

#### 第6回 2006年2月23日

「心筋再生医療の臨床ルーチン化 - ユートピア(夢物語)、それとも未来の現実?」

Bernardo Nadal-Ginard

IREIIMS研究マネージメントCAO、マウントサイナイ医科大学心臓血管研究所教授

#### 第7回 2006年3月6日

「統合医療の効果判定評価法の確立 - プロテオームからのアプローチ」

吉川敏一 京都府立医科大学医学部内科学教授

#### 第8回 2006年4月20日

「基礎医学、生命科学分野での人材育成について」

上代淑人 東京大学名誉教授

京都大学大学院医学研究科先端領域融合医学研究機構特任教授

#### 第9回 2006年5月25日

「個と集団における相違 - 構成要素と粗視化」

豊川裕之 東京栄養食糧専門学校校長・教授

#### 第10回 2006年6月15日

「ミトコンドリア遺伝子疾患モデル - ミトマウスが語るミトコンドリア・ミステリー II」

林純一 筑波大学生物科学系生物農林学系教授

#### 第11回 2006年7月20日

「コミュニケーションの科学」

東倉洋一 国立情報学研究所教授・副所長

#### 第12回 2006年8月24日

「ヘモグロビンの構造と機能の相互性」

津島慶三 横浜市立大学名誉教授 雑誌Vita編集委員長

#### 第13回 2006年9月28日

「自然からの贈り物 - 史上最大の新薬誕生」

遠藤章 東京農工大学名誉教授、

(株)バイオファーム研究所代表取締役所長

#### 第14回 2006年10月19日

「組織再生に向けて - 組織形成のための人工的なナノスカフォールド(足場)を用いて」

Hossein Hosseinkahni (独)物質・材料研究機構若手国際研究拠点特別研究員

#### 第15回 2006年11月16日

「イノベーションと人材育成」

池上徹彦 (独)産業技術総合研究所理事

#### 第16回 2007年1月25日

「腎がん抑制遺伝子 *Kank* によるアクチン重合反応抑制機構」

木山亮一 (独)産業技術総合研究所シグナル分子研究ラボ・リーダー

#### 第17回 2007年3月15日

「痛みと可塑性 - 慢性痛症と学際的アプローチ」

熊澤孝朗 愛知医科大学医学部痛み学講座教授、名古屋大学名誉教授

## Appendix

### List of Publications / 業績一覧

#### 原著論文

1. Ishida M, Egawa S, Aoki T, Sakata N, Mikami Y, Motoi F, Abe T, Fukuyama S, Sunamura M, Unno M, Moriya T, Horii A, Furukawa T: Characteristic clinicopathological features of the types of intraductal papillary-mucinous neoplasms of the pancreas. *Pancreas* (in press).
2. Ishida M, Egawa S, Sakata N, Mikami Y, Motoi F, Abe T, Fukuyama S, Sunamura M, Furukawa T, Unno M: Intraductal papillary-mucinous adenocarcinoma in the remnant pancreas after pancreaticoduodenectomy for cancer of Vater's papilla associated with intraductal papillary-mucinous adenoma. *J Hepatobiliary Pancreat Surg* (in press).
3. Matsushita Y, Furukawa T, Kasanuki H, Nishibatake M, Kurihara Y, Ikeda A, Kamatani N, Takeshima H, Matsuoka R: The mutation of junctophilin 2 is associated with hypertrophic cardiomyopathy. *J Hum Genet* (in press).
4. Sakazume S, Okamoto N, Yamamoto T, Kurosawa K, Numabe H, Ohashi Y, Kako Y, Nagai T, Ohashi H: GPC3 mutations in seven patients with Simpson-Golabi-Behmel Syndrome. *Am J Med Genet A* (in press).
5. Izawa M, Chernov M, Hayashi M, Nakaya K, Kamikawa S, Kato K, Higa T, Ujiie H, Kasuya H, Kawamata T, Okada Y, Kubo O, Iseki H, Hori T, Takakura K: Management and prognosis of cysts developed on the long-term follow-up after Gamma Knife radiosurgery for intracranial arteriovenous malformations. *Surg Neurol* (in press).
6. Chernov M: Letter to the Editor of the Journal of Neurosurgery (Re: Sindou MP, Alvernia JE: Results of attempted radical tumor removal and venous repair in 100 consecutive meningiomas involving the major dural sinuses. *J Neurosurg* 105:514-525, 2006.) *J Neurosurg* (in press).
7. Hayashi M, Chernov MF, Taira T, Ochiai T, Nakaya K, Tamura N, Goto S, Yomo S, Koyama N, Katayama Y, Kawakami Y, Izawa M, Muragaki Y, Nakamura R, Iseki H, Hori T, Takakura K: Outcome after pituitary radiosurgery for thalamic pain syndrome. *Int J Radiat Oncol Biol Phys* (in press).
8. Li Z, Yu T, Morishima M, Pao A, LaDuca J, Conroy J, Nowak N, Matsui S, Shiraishi I, Yu YE: Duplication of the entire 22.9-Mb human chromosome 21 syntenic region on mouse chromosome 16 causes cardiovascular and gastrointestinal abnormalities. *Hum Mol Genet* (in press).
9. Ninomiya M, Nishizawa T, Takahashi M, Lorenzo FR, Shimosegawa T, Okamoto H: Identification and genomic characterization of a novel human torque teno virus of 3.2 kb. *J Gen Virol* (in press).
10. Noro S, Mitsuishi T, Kaneko T, Nakatake M, Yamada O, Kawana S: Bowen's carcinoma with high telomerase activity. *J Dermatol* (in press).
11. Nakatake M, Kakiuchi Y, Sasaki N, Murakami-Murofushi K, Yamada O: STAT3 and PKC differentially regulate telomerase activity during megakaryocytic differentiation of K562 cells. *Cell Cycle* (in press).
12. Yamamoto T, Dowa Y, Ueda H, Kawataki M, Asou T, Sasaki Y, Harada N, Matsumoto N, Matsuoka R, Kurosawa K: TOF, PA and MAPCA in a patient with interstitial deletion of 16q21-q22.1. *Am J Med Genet* (in press).
13. Chansri N, Kawakami S, Yokoyama M, Yamamoto T, Charoensit P, Hashida M: Anti-tumor effect of all-trans retinoic acid loaded polymeric micelles in solid tumor bearing mice. *Pharm Res* (in press).
14. Abe A, Hagita N, Furutani M, Furutani Y, Matsuoka R: Possibility of integrated data mining of clinical data. *Data Science J* 6, Supplement, S104-S115, 2007.
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16. Chernov M: Meningiomas of the superior sagittal sinus (Letter to the Editor). *J Neurosurg* 106:736-737, 2007.
17. Toyoshima K, Momma K, Imamura S, Nakanishi T: *In vivo* dilatation of the postnatal ductus arteriosus by atrial natriuretic peptide in the rat. *Neonatology* 92:139-144, 2007.



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19. Watanabe M, Iwasaki Y, Mita Y, Ota S, Yamada S, Shimizu M, Takagaki Y: Porcine T-cell receptor  $\beta$ -chain: A genomic sequence covering *D $\beta$ 1.1* to *C $\beta$ 2* gene segments and the diversity of cDNA expressed in piglets including a novel alternative splicing product. *Mol Immunol* 44:2332-2343, 2007.
20. Páez MT, Yamamoto T: Single nucleotide polymorphisms of tissue inhibitor of metalloproteinase genes in familial moyamoya disease. *Neurosurgery* 3:60, 2007.
21. Osada N, Hashimoto K, Hirai M, Kusuda J: Aberrant termination of reproduction-related TMEM30C 3 transcripts in the hominoids. *Gene* 392:151-156, 2007.
22. Chernov MF, Hayashi M, Izawa M, Usukura M, Yoshida S, Ono Y, Muragaki Y, Kubo O, Hori T, Takakura K: Multiboxel proton MRS for differentiation of radiation-induced necrosis and tumor recurrence after Gamma Knife radiosurgery for brain metastases. *Brain Tumor Pathol* 23: 19-27, 2006.
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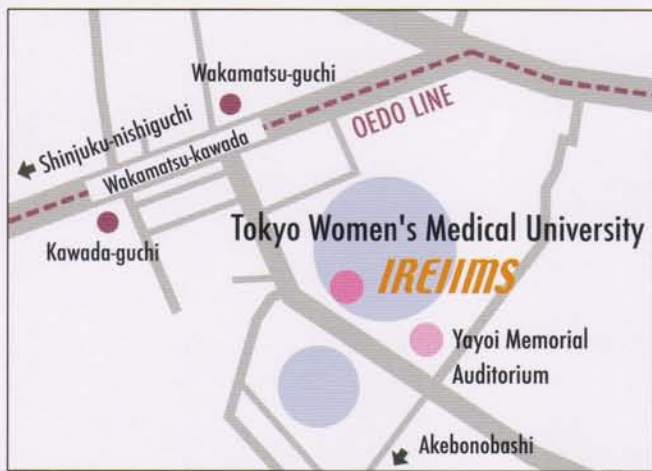
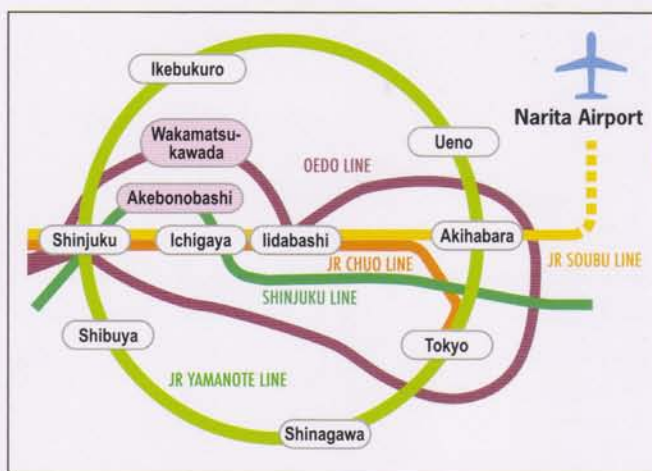
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# Appendix

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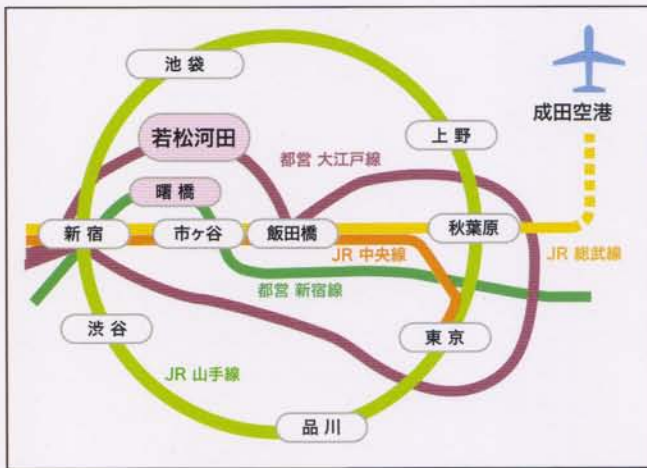
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Published March, 2007  
Edited and Published by IREIIMS, Tokyo Women's Medical University  
Designed by Atsunori HIROTA  
Printed by TACHIBANA PRINT

発行日 2007年3月  
編集・発行 東京女子医科大学 IREIIMS  
デザイン 広田、アツノリ  
印刷 有限会社 立花印刷

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