

蔣以仁 副教授	1995 ~ 1997 台大醫學工程 博士 1994 ~ 1997 台大資訊工程 博士 2005 ~ present 台北醫學大學醫學資訊研究所 副教授 2002 ~ present 台灣大學醫學工程研究所 助理教授(兼)	資料探勘 網格運算 機器人學
邱泓文 副教授	1992 ~ 2000 國立陽明大學醫學工程研究所 博士 1985 ~ 1989 國立台灣大學電機系 學士 2000 ~ present 台北醫學大學醫學資訊研究所 副教授 2006 ~ present 台灣醫學資訊學會 秘書長	醫學工程 醫療決策支援 資訊照護資訊 生醫信號處理
李元綺 副教授	英國劍橋大學生物化學所博士 東海大學生物科技所碩士, 東海大學外文系學士 2005.07 ~ 現今 美國 NINDS/NIH 特別研究員 2003.08 ~ 現今 台北醫學大學醫學資訊研究所 副教授 國衛院分子與基因醫學研究組博士後研究員 中央研究院 Institute of Zoology,	生物資訊學 生物晶片分析 系統生物學
陳祺賢 助理教授	1998 美國凱斯西儲大學生物化學博士 1992 國立陽明大學醫學工程研究所碩士 1985 臺北醫學大學 醫學士 2003.05 ~ Present 台北市立萬芳醫院復健科 醫師 2003.08 ~ 現今 台北醫學大學醫學資訊研究所 助理教授	正子放射斷層掃描 影像處理 醫學物理 復健醫學
許明暉 助理教授	1981-1988 台北醫學大學醫學系學士 1998-2000 台北醫學大學醫學資訊研究所碩士 現任 萬芳醫院醫學資訊副院長 萬芳醫院神經外科主治醫師	脊椎外傷 腦中風 腦瘤腕隧道症候群 內視鏡手術

研究特色

在學術研究方面，本所 8 位教師共發表 103 篇期刊論文(SCI/EI 級論文為 49 篇)以及 148 篇研討會論文。出版專書共 6 本：醫療資訊管理學、簡明醫學資訊學、病人安全-理論與實務、國際醫學資訊研討會 2002、2003、2006 論文集，其中[醫療資訊管理學]一書已被各醫學院校列為本領域中之主要教科書，兩年銷售超過 4000 本。1998 年起，本所獲補助之研究計畫超過 120 個，總金額超過 1 億八千萬元。

展望

本所教師在學校、兩附屬醫院及專業性社團中，亦扮演許多重要角色，包含兩院副院長、台灣醫學資訊學會理事長與祕書長，台灣醫療資訊交換第七層協定協會(HL7 Taiwan)理監事、台灣護理資訊學會理監事、兩院心臟內科/皮膚科/復健科主治醫師等。

此外，本所長期以來積極支援台灣醫學資訊學會主辦國際醫療資訊研討會(Medical Informatics

Symposium in Taiwan)，邀請國際醫療資訊學會主席及重要知名醫學資訊先進參與會議，不但透過會議交流傳達國際對於醫學資訊領域的研究與發展方向，更經由本研討會的論文報告，展現國內醫學資訊的發展成果，提升國內醫療資訊在國際領域的能見度及地位。

(徐建業 所長/教授)

Graduate Institute of Biomedical Informatics

History and Overview

The Graduate Institute of Biomedical Informatics (GIBI was also known as GIMI) of Taipei Medical University (<http://gimi.tmu.edu.tw>) is the first graduate school in Taiwan for this inter-discipline field to bridge informatics to

biomedicine. GIBI is committed to advance medical care and biomedical research through the use of innovative information technology. We serve as a multidisciplinary center of excellence for research and teaching, and we are dedicated to nurture capable and well-rounded talent to fulfill the needs in the new information era.

Goal of Education

Our vision is to integrate professional medical knowledge with computerized information technology in such ways, which can apply the medical information effectively to benefit patients directly; and on the other hand, let the latest computer technologies support the development of medical research.

Distinctive Feature of Education

We combine the teachers' profession together and organize one research team to handle the integrated research on biology and medical informatics. GIBI provides a complete training course to the graduates to teach them how to collect data, do data analysis, and make decision with the decision support system.

GIBI has some conference rooms, two computer classrooms, and one laboratory of physiological signals in GIBI. We also handle the center of Bioinformatics Computing (BCC). There are various kinds of hardware and software to fulfill our graduates' need.

The graduates from GIBI have well job opportunities and promotions. And we also provide job consultation to our graduates. In addition, there are some graduates choose to continue their doctorate after they finish their master degree.

Faculty

The teachers' professional are in three fields: Medical, Informatics, and Biology. We are dedicated to various aspects such as medical informatics, Decision Support system (DSS), Information System Architecture, applications of Clinical Information, Artificial Intelligence (AI), Artificial Neural Network (ANN), Long-distance medical system, Electronic Health Records (EHRs), Biomedical Engineering, Electric Engineering, Medical data mining, Text mining, PET-CT, Image Processing, Signal Processing, Bioinformatics, and Systems Biology.

Faculty of GIBI

Name	Background	Fields of specialty
Chien-Yeh, Hsu Professor Director	Background 1989 ~ 1993 Ph.D, Ohio State University, Speech and Hearing Science 1987 ~ 1989 M.D, Ohio State University, Electrical Engineering Department 1981 ~ 1985 B.A, National Cheng Kung University Present position 1998 ~ present Taipei Medical University Graduate Institute of Biomedical Informatics, Professor 2008 ~ present Taiwan Association for Medical Informatics, President	*Medical Data Mining/Text Mining *Grid Computing *Robotics
Chien-Tsai, Liu Professor	Background 1988 ~ 1994 Ph.D, University of Pittsburgh, Pittsburgh, PA, USA, Computer Science 1984	*Electronic Medical Record *Standard of

	~ 1986 M.S, Department of Electronic Engineering, National Taiwan University of Science and Technology ,Taipei 1978 ~ 1983 B.A, Electronic Engineering, Tamkang University Present position 1998 ~ present Taipei Medical University Graduate Institute of Biomedical Informatics, Professor	medical informatics *Education of health information * Medical Decision Support *System/Patient Safely Informatics
Li, Liu, Associate Professor	Background Computer Science and Information Engineering, National Taiwan University Ph.D. Present position *1996 ~ present Taipei Medical University Graduate Institute of Medical Informatics Associate Professor *1997 ~ present Taipei Medical University Hospital Vice-President *Taiwan Association for Medical Informatics *Taiwan Hospital Association *1996 ~ present ,TMU ,Graduate Institute of Biomedical Informatics 1997 ~ present Vice President, Taipei Medical university Hospital * Supervisor ,Taiwan Association for Medical Informatics) *committee member of Taiwan Hospital Association	*Medical Information System *Internet Application of Medical
I-Jen, Chiang Associate Professor	Background 1995 ~ 1997 Ph.D., National Taiwan University, Institute of Biomedical Engineering 1994 ~ 1997 Ph.D. NTU, Department of Computer Science and Information Engineering Present position 2005 ~ present TMU, Graduate Institute of Biomedical Informatics 2002 ~ present NTU, Institute of Biomedical Engineering	*Medical Data Mining *Text Mining *Grid Computing *Robotics
Hung-Wen, Chiu, Associate Professor	Background *1992.9 ~ 2000.7 Ph.D., National Yang-Ming University, Institute of Biomedical Engineering *1985.9 ~ 1989.6 B.A, NTU, Department of Electric Engineering Present position 2000. ~ present TMU, Graduate Institute of	*Biomedical Engineering *Decision support *Healthcare Informatics *Biosignal Processing

	Biomedical Informatics 2006 ~ present Taiwan Association for Medical Informatics, Secretary-General	
Yuan-Chii, Lee Associate Professor	Background Biochemistry, University of Cambridge, UK (Ph.D.) Biology, Tunghai University, Taichung (M.Sc.) Western and Foreign Languages, Tunghai University, Taichung (B.A.) Present position: 2005.07 ~ Present Special Volunteer, NINDS/NIH, USA, 2003.08 ~ Present TMU, Graduate Institute of Biomedical Informatics Division of Molecular and Genomic Medicine, National Health Research Institutes, Taipei (Postdoctoral Fellow) Department of Biochemistry, Cambridge University, Cambridge, UK (Post-Graduate student) Institute of Zoology, Academia Sinica, Taipei (Post-Graduate student)	*Bioinformatics Microarray *Analysis *System Biology
Chi-Hsien, Chen Assistant Professor	Background *1998 Case Western Reserve University, Department of Biomedical Engineering; Cleveland, OH USA Ph.D. *1992 National Yang-Ming University, Institute of Biomedical Engineering; Taipei, Taiwan MS *1985 B.A, TMU, Medical Department Present position 2003.5 ~ Present Taipei Municipal WanFang Hospital 2003.8 ~ Present TMU, Graduate Institute of Biomedical Informatics *2001-2002 UBC Hospital, Pacific Parkinsonism Research Centre; Vancouver, Canada Post-doctoral Fellow *2000-2001 Taipei Veterans General Hospital, Department of Nuclear Medicine; Taipei, Taiwan Investigator Associate *2000-2001 National Yang-Ming University, Department of Medical Radiation Technology and Institute of Radiological Sciences School of Medical Technology; Taipei, Taiwan Assistant Professor	*Positron Emission Tomography (PET) and Computerized Tomography (CT), *Image Processing *Physical Medicine and Rehabilitation

	*1998–2000 Schimidt Group Practice Clinic, Physical Medicine and Rehabilitation; Taipei, Taiwan Attending Physic	
Min-Huei, Hsu Assistant Professor	Backgroud 1981–1988 School of medicine, Taipei Medical University, Taipei, Taiwan 1998–2000 Graduate Institute of Medical Informatics, Taipei Medical University, Taipei, Taiwan Present position 1994–1996, Attending Neurosurgeon, Taipei Municipal Chung-Hsiao Hospital 1997–1998, Director of Surgical Intensive Care Unit, Taipei Municipal Chung-Hsiao Hospital 1998–2005, Chief, Neurosurgical Department, Taipei Municipal Chung-Hsiao Hospital 2005– Consultant Neurosurgeon, Taipei Municipal Wan-Fang Hospital Chief Information officer, Taipei Municipal Wan-Fang Hospital Vice Superintendent, Taipei Municipal Wan-Fang Hospital	*Spinal cord injury *Stroke *Carpal tunnel syndrome *Endoscope surgery

Distinctive Feature of Research

(Chien-Yeh, Hsu, Director/Professor)

In academic development, our teachers publish at least 103 papers (which contain 49 SCI/EI papers), and 148 conference papers. Furthermore, they also publish 6 textbooks with respect to medical informatics, the most significant achievement of those publications is the textbook, Healthcare management information systems, which has been chosen as the major teaching material in several medical schools and has been sold over 4,000 in two years.

Prospect

Our teachers play an important rule among several fields, such as President of Taiwan Association for Medical Informatics, the board of HL7 Taiwan and Taiwan Nursing Informatics Association, Cardiology/Dermatology/ Rehabilitation Attending in Taipei Medical University Hospital and Taipei University – Wan Fang Hospital.