

2015 『國際創新藥物傳輸研討會』

2015 International Advanced Drug Delivery Symposium

國際創新藥物及劑型技術變化快速，創造優化及高品質新藥，引起大家重視。尤其生技藥物市場與技術的迅速崛起，將影響下一波醫藥發展策略及布局。本次研討會將聚焦於抗體藥物複合體(ADCs)、多胜肽及蛋白質藥物傳輸和奈米化劑型技術三大主題，邀請國內外知名專家及學者針對創新技術、機制探討、品質製造及研發策略抉擇等議題，藉由各家案例分享、問題解析之交流，促進我國生技醫藥、新劑型新藥之技術創新，增加產品成功上市機會。

我們竭誠邀請您不要錯過高水準、高品質生技醫藥新知及國際新劑型新藥發展趨勢分享機會！更歡迎您帶著問題與講師學員一起探討生技醫藥的未來！

指導單位：行政院科技會報辦公室、經濟部技術處

主辦單位：工研院生醫與醫材研究所

協辦單位：台灣區製藥工業同業公會、中華民國製藥發展協會

時間：2015年8月31日~9月1日

地點：工研院光復院區 17 館國際會議廳(新竹市光復路二段 321 號)

報名時間：即日起至額滿為止，座位有限欲報名從速。

報名方式：採網路報名。

報名網址：<http://seminar.itri.org.tw/onlinereg/RegAdd.aspx?msgno=56150011>

報名費：包含研討會論文集及 8/31-9/1 中午便當與 coffee-break 費用

◎個人/一般廠商 NT\$5,000/人，**8/17 前**匯款並報名成功可**享早鳥優惠價 NT 4,000**

(小分子聯盟會員者可享學費 9 折優惠，以 3 人為限；早鳥優惠方案擇一)

◎學生 NT\$2,000，**8/17 前**匯款並報名成功可**享早鳥優惠價 NT 1,500**

繳費方式：

◎**電匯繳款**--請於匯款時備註欄位說明參加「2015 國際創新藥物傳輸研討會」

銀行：土地銀行工研院分行(銀行代碼 005)，帳號：156005000025

戶名：財團法人工業技術研究院

※**發票**一律於研討會當天在會議現場發放。

■ **洽詢電話：**工研院生醫與醫材研究所

許淑卿 小姐(03-5743888) / 邱雅玲 博士(03-5732591)

2015 國際創新藥物傳輸研討會
2015 International Advanced Drug Delivery Symposium

報名回函

單位全銜		發票抬頭	<input type="checkbox"/> 同單位全銜 其他：
聯絡地址	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	聯絡人	
聯絡電話		傳真	
		Email	
參加者姓名	職稱	Email	報名費用
			<input type="checkbox"/> 學生 <input type="checkbox"/> 個人 費用：
			<input type="checkbox"/> 葷 <input type="checkbox"/> 素
			<input type="checkbox"/> 學生 <input type="checkbox"/> 個人 費用：
			<input type="checkbox"/> 葷 <input type="checkbox"/> 素
			<input type="checkbox"/> 學生 <input type="checkbox"/> 個人 費用：
			<input type="checkbox"/> 葷 <input type="checkbox"/> 素

報名費:包含研討會論文集及 8/31-9/1 中午便當與 coffee-break 費用

◎個人/一般廠商 NT\$5,000/人，**8/17 前**匯款並報名成功可**享早鳥優惠價 NT 4,000**

(屬於小分子聯盟會員者可享學費 9 折優惠，以 3 人為限；早鳥優惠方案擇一)

◎學生 NT\$2,000，**8/17 前**匯款並報名成功可**享早鳥優惠價 NT 1,500**

繳費方式：一律採電匯繳款

◎土地銀行工研院分行(銀行代碼 005)，帳號：156-005-00002-5，戶名：財團法人工業技術研究院，請學員於匯款時備註欄位說明「2015 國際創新藥物傳輸研討會」

匯 款 收 據 黏 貼 處

請將匯款收據黏貼於報名回函傳真至 03-5732372，並電話確認。

聯絡人：許淑卿 小姐(03-5743888) / 邱雅玲 博士(03-5732591)

e-mail: shuchingsu@itri.org.tw

2015 國際創新藥物傳輸研討會
2015 International Advanced Drug Delivery Symposium

8 月 31 日 Time	Topics	Speakers
08:30-9:00	報 到	
9:00~9:10	開幕致詞	
9:10-10:40	Potent Payloads Power the Promise of Antibody-Drug Conjugate (ADC) Technology: The Development of Kadcyra, and the Next Wave of Innovation	John Lambert
10:40-11:00	Break	
11:00-12:30	ADCs Targeting Embryonic and Pluripotent Stem Cell Markers as Novel Therapeutics for Metastatic Cancers	Michael Schopperie
12:30-13:30	Lunch	
13:30-15:00	Oral Delivery of Macromolecular Drugs	Andreas Bernkop-Schnürch
15:00-15:20	Break	
15:20-16:10	The QbD Strategy of PLGA Microspheres Product	Yu-Fang Hu
16:10-16:45	Novel Hyaluronan-Based Nanoparticles Development for Cancer Therapy	Chih-Peng Liu
16:45-17:00	Final Q&A	All participants

2015 國際創新藥物傳輸研討會
2015 International Advanced Drug Delivery Symposium

9月1日 Time	Topics	Speakers
08:40-9:00	報 到	
9:00-10:30	Tocilizumab: A Humanized Anti-IL-6 Receptor Antibody-The Story Behind Its Invention	Yoshiyuki Ohsugi
10:30-10:50	Break	
10:50-12:20	DuoBody and HexaBody platform: novel enabling therapeutic antibody technologies	Janine Schuurman
12:20-13:30	Lunch	
13:30-15:00	Embedding Nanotechnology in Drug Development	Ijeoma Uchegbu
15:00-15:20	Break	
15:20-16:10	Development of Targeting Drug Delivery Systems for Cancer Targeted Imaging and Therapy	Han-Chung Wu
16:10-17:00	Lipid-Modified Nano-Constructs for Targeted Cancer Therapy	Ja-An Ho
17:00-17:10	Final Q&A	All participants

全程英文演講，無安排翻譯

主辦單位保有議程變更權利

演講專家簡介 (依演講順序)

John Lambert, Ph.D.

Executive Vice President & Distinguished Research Fellow ImmunoGen, Inc.

Dr John Lambert is an Executive Vice President and Distinguished Research Fellow at ImmunoGen, Inc. Dr Lambert first joined ImmunoGen in 1987 when the company established laboratories in Cambridge, Massachusetts. Prior to this, he was an Assistant Professor at the Dana-Farber Cancer Institute, Harvard Medical School (1982-1987), working on the ImmunoGen-funded programs to develop antibody-drug conjugates (ADCs) and immunotoxins as anti-cancer therapeutics. Dr Lambert has served on the Executive Team of ImmunoGen since 2008. He was Chief Scientific Officer from 2008 until 2015, when he became a Distinguished Research Fellow at the company. Dr Lambert was educated at the University of Cambridge (England), receiving a B.A. in Natural Sciences (1972), and earning a Ph.D. in Biochemistry (1976) under the supervision of Professor Richard N. Perham. He did his postdoctoral training in the laboratory of Dr Robert R. Traut in the Department of Biological Chemistry, University of California at Davis (1976-1980), and with Dr John R. Coggins in the Department of Biochemistry, University of Glasgow, Scotland (1980-1982). Dr Lambert is the author/coauthor of over 100 scientific articles in peer-reviewed journals.

Ijeoma Uchegbu, Ph.D.

Professor, Pharmaceutics, UCL School of Pharmacy, Faculty of Life Sciences, UC London



Ijeoma's research in pharmaceutical nanoscience has provided insights into nanoparticle design for drug delivery, producing nanosystems (nanomedicines) that promote oral drug absorption, peptide drug transport to the brain and, in collaboration with Andreas Schätzlein, gene/ siRNA transport to experimental tumours. Ijeoma is the former Scientific Secretary of the *Controlled Release Society*, former Chair of the *Academy of Pharmaceutical Sciences of Great Britain* and the former Academia Expert on the Department for Business Innovation and Skills' *Science Engineering and Technology Strategy for Women Expert Group*. She currently sits on the Engineering and Physical Sciences Research Council (EPSRC) Healthcare Strategic Advisory Team. Ijeoma has been awarded various prizes for her work, notably the UK Department for Business Innovation Skills' *Women of Outstanding Achievement in Science Engineering and Technology* award and the *Royal Pharmaceutical Society's Pharmaceutical Scientist of the Year 2012*. Ijeoma was elected to the *Controlled Release Society College of Fellows* in 2013 and became an *Eminent Fellow of the Academy of Pharmaceutical Sciences* in 2013. Ijeoma is the editor of three books, a named inventor on 11 granted patents and 11 patent families. Ijeoma has also authored over 100 peer reviewed journal articles and book chapters.

Andreas Bernkop-Schnürch, Ph.D.

Chairman for Pharmaceutical Technology at the Institute of Pharmacy, University of Innsbruck;
Head of the Institute of Pharmacy; University of Innsbruck



Research interests: mucoadhesive polymers; nanocarriers; peptide drug delivery; self-nanoemulsifying drug delivery systems; Awards: HERBA-Award (Vienna); Research-Award of the City of Vienna (Vienna); EURAND-Award (Boston); Best of Biotech Award (Vienna); MBPW-Award (Munich); PHÖNIX Award (Mannheim); Houska-Award (Vienna); Austrian Nano Award (Vienna); Publications: >270 original research articles, >30 review articles, >50 invited lectures, 15 patents. Editor/Advisory Board Member of many drug delivery journals such as Pharm. Res., J. Pharm. Sci., Eur. J. Pharm. Biopharm., Drug Dev. Indust. Pharm., Sci. Pharm., Drug Deliv. Let. and J. Drug Deliv. Sci. Technol. Founder of MucoBiomer GmbH (meanwhile part of the Croma Holding), ThioMatrix GmbH (www.thiomatrix.com) and Green River Polymers GmbH (www.green-river.eu).

Hu Yu-Fang, Ph.D.

Pharmaceutical Development Center, TTY Biopharm.



Mr. Hu served in pharmaceutical engineering area for more than 20 years. Specialize in pharmaceutical R&D and cGMP production, including traditional drugs and high-barrier drugs (i.e. liposome and sustained-release injection). Graduated from School of pharmacy of Kaohsiung Medical University, and went to the United States for further education. He obtained Ph.D. of pharmaceuticals in St John's University. Later, he worked for Bristol-Myers Squibb, Immulogic Pharmaceutical, and Diatide in the United States in the area of pharmaceutical development. In 1999, Chairman Rongjin Lin, invited him to join TTY team, dedicating himself in pharmaceutical development and engineering with particular emphasis on R&D of specialty pharmaceutical agents. After graduation, Dr. Hu has worked in pharmaceutical labs and cGMP factory for product development and leading R&D team. Regards pharmaceuticals as the passion and profession. Makes pharmaceutical research as his lifelong career, and dedicates himself to promoting TTY R&D capabilities of high-barrier drugs to the world, building Taiwan as a global center for development and manufacturing of high-barrier specialty drugs.

Chih-Peng Liu, Ph.D.

Senior Researcher of Biomedical Technology and Device Research Labs, Industrial Technology Research Institute

Chih-Peng Liu is a senior researcher of Biomedical Technology and Device Research Labs, Industrial Technology Research Institute, where he has been working on various drug discovery projects. Earlier he received a Ph.D. from Department of Pharmacology, National Yang-Ming University in 2006. He had studied in Pharmacy obtaining a Bachelor's degree from Taipei Medical University in 1998. Liu is the representative of Pharmacokinetic Technology Department to join drug discovery projects team in ITRI. Liu's research in pharmaceutical nanoscience has provided PK/PD insights into nanoparticle design for drug delivery. He had participated in brain delivery nanoparticles development. His team had created several animal models for primary screening, PK/PD relationship, and tissue distribution. He also worked on *in vivo* released drug determination to evaluate the mechanism of nanoparticles. Currently, he is a principle investigator of nanocarrier development and tries to evaluate the novel hyaluronan-based nanocarrier development for cancer metastasis therapy and diagnostics. Liu had been awarded outstanding research (2010) and got annual paper award (2011) in ITRI.

Yoshiyuki Ohsugi, Ph.D.

Chairman & CEO, Ohsugi BioPharma Consulting Co., Ltd.



Dr. Ohsugi's research has focused on new drugs for autoimmune disease and allergies. Following R&D on the arthritis drug Lobenzarit, since 1986 he has engaged in development research on Tocilizumab in cooperation with Osaka University. Dr. Ohsugi was a global project leader for Tocilizumab (humanized anti-IL6 receptor Ab) at Chugai Pharmaceutical Co., Ltd. in April 2001. He served as a Science Adviser at Chugai Pharmaceutical Co., Ltd. from September 2004 to March 2015. In addition, Dr. Ohsugi was Adjunct Professor of Institute for Innovation Research at Hitotsubashi University from 2012 to 2015. Since June 2015, Dr. Ohsugi is a Chairman & CEO of Ohsugi BioPharma Consulting Co., Ltd.

Janine Schuurman, Ph.D.

VP Research, Genmab B.V.



Dr. Janine Schuurman has been working in the field of Antibody Biology for about 20 years. In 1997 she got a PhD in Immunology from the University of Amsterdam. During her PhD at Sanquin Research. After a few post-doc positions at Sanquin Research and the University Utrecht she started in 2001 at Genmab.

Current research of Janine focuses on Antibody Biology, Product Innovation and the development of novel antibody formats such as the monovalent antibody platform UniBody[®], the bispecific antibody platform DuoBody[®] and the enhanced IgG platform HexaBody[®].

Michael Schopperie, Ph.D.

CEO, CureMeta



Mike Schopperle received a Ph.D. in Biochemistry from Brandeis University and followed with postdoctoral studies in cancer research at Beth Israel Deaconess Medical Center, and an Instructor faculty position at Harvard Medical School to continue cancer stem cell research. In 2011 he founded CureMeta, a start-up biotech which focuses on novel diagnostics and therapeutics for aggressive and metastatic cancers. Strong research data is emerging suggesting that metastatic and aggressive cancers are cause by cancer stem cells with embryonic and pluripotent characteristics. We have developed several antibodies which are specific for pluripotent stem cells markers and have made several ADCs as novel therapeutics for metastatic cancers. Our studies show that our new ADCs are specific for and highly efficient at killing pluripotent cancer stem cells.

Han-Chung Wu, Ph.D.

Joint Appointment Research Fellow in Genomics Research Center, Academia Sinica

Joint Appointment Professor in Institute of Pathology; and Graduate Institute of Oral Biology, College of Medicine, National Taiwan University

Honors & Awards

1. 2010 Yung-Shing Young Investigator Award
2. 2007, 2009, 2010 and 2011, Significant Research Achievements, Academia Sinica
3. 2011 8th National Innovation Award
4. 2011-2014, NSC Outstanding Research Award, National Science Council, Taiwan

5. 2012 9th National Innovation Award
6. 2013 10th National Innovation Award
7. 2013 Taiwan Healthcare and Agricultural Biotech Industries Innovation and Excellence Awards

Research Interests

1. Molecular mechanisms of tumorigenesis.
2. Development of targeting drug delivery systems for cancer imaging and therapy.
3. Development of therapeutic antibodies for treatment of human diseases.
4. Pathogenesis of dengue hemorrhagic fever.

Development of therapeutic antibodies, diagnostic reagents and vaccine for dengue

Ja-An Ho, Ph.D.

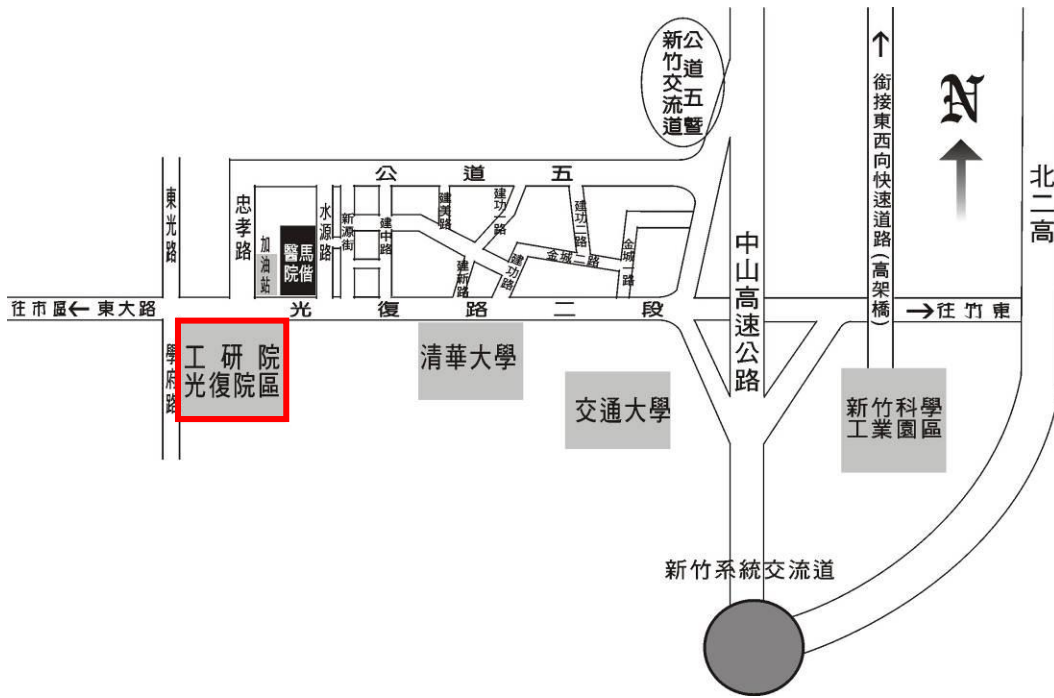
Professor, the College of Life Science at National Taiwan University

Dr. Annie Ho and her research team seek to design and develop new analytical techniques for the rapid, sensitive, and reliable detection of pathogenic agents, such as bacterial toxins and microbes. These methods have great potential for application in clinical diagnostics, food safety monitoring, epidemic control, and, most recently, counterterrorism campaigns. Nano-structured materials have become attractive targets in much of contemporary advanced material research; they are appealing for use in electronic and optical devices, as well as in the development of medical diagnostic devices. The fabrication of nanostructured materials has especially garnered considerable attention because of their superior thermal, optical, chemical, and physical properties. In recent years, Dr. Ho and her research team have devoted much effort to learning the improving electrochemical performance of modified electrodes incorporating various nanomaterials. In addition to the development of biosensors, Dr. Ho's group is also using liposomes and various nanomaterials to study drug delivery. Many biochemists and pharmacists in industry, academia, and government administration are interested in designing novel, controlled-release drug delivery systems. Drugs that exhibit narrow therapeutic indexes often create major challenges for pharmaceutical scientists during their development. The application of nanotechnology to the delivery of such drugs can overcome these dilemmas. An ideal anticancer drug/gene delivery vector encapsulates the drug (or gene) to prevent its interaction with healthy cells. The ligand-assisted nanocarrier reaches the diseased sites and releases the drug (or gene) from the drug delivery vector to destroy the cancerous cells. Such drug delivery vectors offer many advantages, including improved efficacy and reduced toxicity.

交通資訊

一、至工研院光復院區

- 1.自行開車：請於新竹交流道(95A)下來往西(市區)，沿光復路新竹市區方向至工研院光復院區（本所）。
- 2.搭乘客運：請於工研院光復院區站(或稱「聯工所站」)下車往回走至本所。
- 3.搭乘火車：新竹火車站下車後，可搭新竹市公車「1號」、「1甲」、「2路」皆可到本所，於工研院光復院區站下車。
- 4.搭乘高鐵：搭乘高鐵免費接駁車，於光復路「馬偕醫院站」上、下車。



二、至光復院區 17 館國際會議廳

