

行政院及所屬各機關出國報告
(出國類別：其他)

澳洲 2002 生物科技會議與展覽

行政院研考會/省(市)研考會 編號欄
J0/ C09104043

服務機關：行政院衛生署

出國人職 稱：科技發展組 科長

姓 名：葉公杰

出國地區：澳大利亞

出國期間：民國 91 年 8 月 17 日至 22 日

報告日期：民國 91 年 11 月 1 日

系統識別號:C09104043

公務出國報告提要

頁數: 12 含附件: 是

報告名稱:

澳洲2002生物科技會議與展覽

主辦機關:

行政院衛生署

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葉公杰 行政院衛生署 科技發展組 科長

出國類別: 其他

出國地區: 澳大利亞

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報告日期: 民國 91 年 11 月 01 日

分類號/目: J0/綜合(醫藥類) /

關鍵詞: 澳洲, 生物技術, 生技會議與展覽

內容摘要: 近年來, 澳洲積極發展生物科技相關產業, 並已成為亞太地區重要生物技術領先國家, 澳洲官方在過去十年, 已積極吸引跨國性藥廠在澳洲進行臨床試驗, 而且強化管理法規、建置優良產業發展環境。為深入了解澳洲發展策略, 做為我國未來生物技術產業發展之參考, 特於民國九十一年八月十八日至八月二十一日, 參加「澳洲2002生技展與投資說明會(AusBiotech 2002 National Biotechnology & Investment Forum)」。本次會議約有三千名各界代表參加會議討論, 議題包含了醫療生物科技、生物農業、管理法規、倫理規範、新藥發展等共二十八項分項討論子題。

本文電子檔已上傳至出國報告資訊網

摘 要

近年來，澳洲積極發展生物科技相關產業，並已成為亞太地區重要生物技術領先國家，澳洲官方在過去十年，已積極吸引跨國性藥廠在澳洲進行臨床試驗，而且強化管理法規、建置優良產業發展環境。為深入了解澳洲發展策略，做為我國未來生物技術產業發展之參考，特於民國九十一年八月十八日至八月二十一日，參加「澳洲 2002 生技展與投資說明會(AusBiotech 2002 National Biotechnology & Investment Forum)」。本次會議約有三千名各界代表參加會議討論，議題包含了醫療生物科技、生物農業、管理法規、倫理規範、新藥發展等共二十八項分項討論子題。

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壹、會議背景說明

澳洲 2002 生技展與投資說明會(AusBiotech 2002 National Biotechnology & Investment Forum)，為澳洲生物科技學會 (Australian Biotechnology Association) 所舉辦的年度性生物科技展覽，會議背景資料整理如下：

- 會議時間：2002 年 8 月 18-21 日
- 地點：澳洲維多利亞省莫爾本市莫爾本會議中心。(附件一)
- 主辦單位：澳洲生技學會 (Australian Biotechnology Association)。
- 參加人數：本次會議約有三千名澳洲國內外專業人士報名與會。
- 參加廠商：該次展覽會場有 70 餘家澳洲國內與國外外廠商參加，並有兩百餘家公司派員參加會議討論。
- 會議議程：共分為三天，二十八個場次進行，議程詳如附件二。
- 會議定位：該會議是由民間團體主導，會議目標設定為推

廣生技產業與投資說明會，因此並非定位為學術性研討會，會議邀請對象涵蓋生技產業相關的工業界、決策者、政府官員、科學家、商界、法規律師業等相關服務業者。該生技展主要以國際性的參展廠商與演講組合，讓澳洲的生技相關業者有機會在會中曝光，並了解生物科技相關行業的最新動向。

貳、會議討論主題

- 一、 如何成立新興生物科技公司 (Building New Biotech Companies)
- 二、 如何尋找新產品 (Sourcing New Products)
- 三、 新興生物醫療器材 (Devices)
- 四、 植物生物科技 (Plant Biotechnology)
- 五、 如何在國際市場中迅速的擴展、探索並尋找競爭機會
(Expediting Discovery and competing in a Global Market)
- 六、 發現 (Discovery)
- 七、 認定市場 (Identifying Markets)
- 八、 企業診斷 (Diagnostics)
- 九、 動物衍生生物材料 (Animal Derived Biologicals)

- 十、經由政府協助建立卓越 (Building Excellence Through Government Partnerships)
- 十一、 澳洲生命科學公司的經濟援助 (Financing Australian Life Science Companies)
- 十二、 基因治療 (Gene Therapy)
- 十三、 農業基因改良食品 (Agrifood)
- 十四、 再生醫學 (Regenerative Medicine)
- 十五、 小分子治療性藥物 (Small Molecules)
- 十六、 環境生物科技 (Environmental Biotechnology)
- 十七、 法規議題 (Legal Issues)
- 十八、 人際關係與技巧的開展 (I) (People/Skills Development I)
- 十九、 聯盟與合夥 (Alliances & Partnering)
- 二十、 疫苗與免疫治療 (Vaccines & Immunotherapeutics)
- 二十一、 發酵與生物處理 (Fermentation & Bioprocessing)
- 二十二、 生物科技的倫理議題 (Ethical Dimensions in Biotechnology)
- 二十三、 人際關係與技巧的開展 (II) (People/Skills Development II)
- 二十四、 企業溝通與公共關係 (Corporate Communications and Public Relations)
- 二十五、 農業生技食品與生技製藥技術 (Agbio)

二十六、 表列的經驗 (The Listing Experience)

二十七、 實用性研究者的專利議題 (Practical Patent Issues for Researches)

二十八、 現代生物科技的倫理執行法規 (Codes of Ethical Practice in Biotechnology Today)

叁、會議心得

一、會議定位明確

該次會議明確定位為生技發展與促進生物技術產業投資研討會，因此參與成員基本上由生技產業界、基金及銀行投資家、智慧財產、生技法規、學術界與政府部門相關業界與業界參與。在討論議題之安排上，也已避免成為純學術性研討會，在介紹最新生物技術的同時，一再強調其商業性與推廣性，其目的在吸引創投業之興趣，同時相關單位亦說明澳洲政府對相關計畫的支持與輔導措施，並積極提供吸引外商在當地投資設廠的相關資料，這種結合學術專業研討與創投參與的說明會，讓與會者對於澳洲推動生技產業的決心有非常深刻的印象。

二、澳洲政府積極建設有利生技產業發展的產業優勢環境

就澳洲選定生技產業為重點發展產業，其自我評估之競爭優勢有下列六點：

1. 在每一千人的研究生人數中，澳洲在生命科學方面的人數較美國、英國、加拿大、德國與新加坡為高，因此足以提供充足的高級研究與工作人力。
2. 澳洲經過多年的努力，已被 AstraZeneca, Schering AG, IBM, Monsanto, GlasxoSmithKline, Itoch 等世界重要生技產業公司，認定為在生技產業方面具有豐富資源與領先技術的國家。
3. 澳洲政府大舉投資於生技研發領域，決心將八個主要的國家研究設施提升為世界級的生技研發中心。
4. 澳洲政府將生技發展相關基礎架構 (intrastructure) 與設施的發展，視為國家重要施政工作。
5. 澳洲具有競爭性的研發成本優勢，在澳洲發展高品質生技研發上，平均成本比在新加坡設立相同的研發中心，成本少了 27% 。
6. 澳洲在基因科技相關的倫理與社群議題上，有著快

速且均衡的管理系統，足以協助業界進行相關研發活動。

7. 澳洲政府已設立 4000 萬澳幣的生物科技發展基金 (Biotechnology Innovation Fund)，協助將生技相關研究成果商業化，以獲取最佳的商業價值。
8. 澳洲政府斥資 4650 萬澳幣，設立了幹細胞與組織修復研究中心 (Center for Stem Cells and Tissue Repair)，以整合澳洲相關研究資源，全力發展具全球競爭力的幹細胞與組織修復研發實力。並將已建立八個與生技相關的研究中心針對基因體蛋白質體與表現性徵等領域全力支援研發工作。

三、邀請具指標性的成功生技領域公司現身說法

大會邀請了數家成功的澳洲本土生技公司，現身說法，講述其如何利用政府資金與相關獎勵措施，成功將相關產品導入國際市場的過程，該類指標性案例的說服力，遠超過政府單位自身對相關產業促進措施的推銷。

四、積極投入民眾認知生物科技相關工作

澳洲政府已深切認知，民眾對於生物技術的認知，其實決定了相關產品是否可以成功進入消費市場。因此澳洲政府在民間主辦的相關會議上，均以非常平易近人的方式來進行媒體傳播，並重視相關議題的平衡報導。澳洲政府在推動生物科技的同時，亦責成各部會，編列宣傳費用進行公眾教育。事實上，日本亦將民眾認知教育，列為推動生物技術的重要工作，該方向非常實質得我國借鏡。

五、學術單位積極投入生技展覽

澳洲各主要大學均積極參與該次生技展覽，在展場上積極介紹其研發專長與服務項目，並提供技術轉移等專業諮詢與專利產出資訊，其參與生技發展的態度甚為主動，並全力配合政府各種招商與宣導活動。

六、地方政府與相關單位充分利用國際展覽機會，進行招商與業務推廣活動

由於澳洲 50% 左右的生技上市公司均位於維多利亞省莫爾本市附近，因此維多利亞市對於生技業招商不遺餘

力。維多利亞省並利用休息時間或晚間，安排與會者參與省政建設與研究機構參訪活動。本次展覽會後，維多利亞省還安排了座談會，與中醫藥推委員會與澳洲治療性物品審查局 TGA (Therapeutic Goods Administration) 人員座談，並介紹澳洲在生技產品的管理上所採行的方式。這種主動利用會議或展覽介紹當地生技利基的方式非常值得讚許。

肆、建議

1. 民眾認知教育為推動生技產業之重要工作

生技產業最後產品終將回歸一般民眾的消費市場，因此民眾對於生技產品的接受與支持度，長遠而言，將影響生技產業。以歐洲為例，民眾對於基因改造產品一直抱持保守態度，因此基因改造食品的歐洲市場無法像美國般的蓬勃發展。此一趨勢可能造成投入鉅資研發的產品無法上市回收的窘境。加上民眾普遍對於基因改造農產品對於環境衝擊，抱持著懷疑的態度，這些疑惑如果無法適當的說明，甚至適度的疏導民

意，對於往後的生技產業發展將投下極大的變數。我國雖然已經決心積極發展生技產業，但是對於民眾的生技教育仍然未能積極進行，未來可能因此影響民眾對於生技積引產品的接受度，該項議題非常值得警惕。

2. 推動生技發展之同時，政府應主動整合學術研究計畫與產業發展重點方向

澳洲政府在決定重點學術研究中心的同時，也規劃生技產業的發展方向，例如澳洲政府三年前推動的大學卓越計畫所成立的八個國家級研究中心，就是生技發展的種子中心，澳洲政府經評估這些中心三年的成效後，今年又選定幹細胞及組織再生為澳洲生技產業發展重點，這種以學術研究支持生技產業發展的明確方向，方能保證本地產業研發能量的生根。相較我國大學之卓越計畫乃是模仿澳洲之計畫，經過三年執行計畫，其成效是否足以支持我國未來之生技研發，進而促成產業發展，應加以詳細評估。

3. 積極推動跨領域之整合

澳洲在推動生技產業上，從研究計畫初期就積極鼓勵跨領域的各行各業參與，從金融業、創投業、法律界、臨床試驗公司、學術界、製藥研發等，均鼓勵代表參與討論或展覽。其目的於計畫初始階段，即引進不同專業的參與。該次會議可以明顯發現，澳洲生物技術協會能掌握國家重要生技計畫的進展，並積極對其商業潛能，對國際創投業進行促銷。由該項工作之推動即能了解澳洲民間對於國家推動之生技方案或研究機構進行之重要計畫，均有即時的資料可以進行分析，如此在商業化與業界合作上，才可能有良好的配合。此一方向非常值得我們學習。

附錄 會議議程



CONFERENCE PROGRAM

The official Conference language is English. Please note all sessions and functions will be held at the Melbourne Convention Centre, with the exception of the Partnering and Investment Forum Breakfast which will be held at the Melbourne Exhibition Centre.

SUNDAY 18 AUGUST 2002

Venue: You Yangs Exhibition Hall

1800-NETWORKING RECEPTION Sponsored by City of Melbourne
1930 Welcome by Lord Mayor John So City of Melbourne

MONDAY 19 AUGUST 2002

Venue: John Batman Theatre

OFFICIAL OPENING

Chair: Dr Anthony Coulepis, Executive Director of AusBiotech

0900 Dr Peter Riddios President of AusBiotech

0905 Hon Steve Bracks Premier of Victoria

0920 Emeritus Professor Nancy F Mills Chancellor, La Trobe University, VIC

0925 Introduction of Millis Orator by Dr Anthony Coulepis Executive Director of AusBiotech

MILLIS ORATION

Sponsored by CSL Limited

0930 The shape of the future global bioscience industry Mr David Robinson CEO, Ligand, USA

Venue: You Yangs Exhibition Hall – BioIndustry Exhibition

1030 Refreshment break & poster viewing Sponsored by Centre for Biotechnology & Animal Science, Box Hill Institute

PARTNERING & INVESTMENT FORUM HANDBOOK

The Partnering & Investment Forum handbook will feature information on presenting companies which will include their presentation notes; company profile; history and milestones; mission statements; contact details; products and technology; and alliances, along with current and anticipated corporate highlights. The cost of the handbook is AUD\$795 including GST. If you wish to purchase a copy please contact Katan Associates International on info@katanassociates.com.au; telephone +61 (0)3 9685 8563.

EVALUATION OF CONFERENCE

After the conference an evaluation form will be electronically distributed to all delegates to seek feedback on this year's conference and recommendations for next year's conference in Adelaide. All delegates are encouraged to provide their feedback by 15 September 2002 to go into a draw for several complimentary registrations to the AusBiotech 2003 Conference & Investment Forum in Adelaide.

POSTER PROGRAM

Posters are displayed in the BioIndustry Exhibition area. For a full list of poster presenters and poster panel numbers please refer to the Pocket Program in your satchel. Poster presenters' abstracts are included in this handbook.

NATIONAL STUDENT HONOURS AWARD

Sponsored by The University of Queensland

Finalists in the National Student Honours Award will display their posters in the BioIndustry Exhibition. The finalists will be presented with a certificate on Wednesday 21 August during morning tea in the BioIndustry Exhibition.

1100-1230 hours

Venue: John Batman Theatre
BUILDING NEW BIOTECH COMPANIES
Sponsored by the Victorian Government

Commercialising scientific innovations
Chair: Dr David Evans, Uniseed

1100 Feeding the oncology pipeline
Dr Guy Wood-Gush Cancer Research Ventures, UK

1120 **Mr David Henderson** UniQuest, QLD

1140 *Creative academics with product development focus: the genesis of*
Acrux Dr Igor Gonda Acrux, VIC

1200 *Forward Genetics and Phenomix, a new Australian-US biotechnology start-up*
Dr Keats Nelms Phenomix Australia, ACT

1220 Discussion

Venue: LaTrobe Theatre
SOURCING NEW PRODUCTS
What will the next generation of biopharmaceuticals be?

Chair: Dr Ismail Kola, Pharmacia Corporation

1100 *Gene therapy: hopes and challenges*
Dr Roland Scollay Genentec, USA

1130 *Glycotherapeutic discovery*
Prof Mark von Itzstein Griffith University Centre for Biomolecular Science & Drug Discovery, QLD

1145 *Novel therapeutic targets and selection of drug discovery strategies*
Dr Andrew Nash Amrad Corporation, VIC

1200 *Targeted gene silencing: a revolution in gene control*
Dr Ken Reed Benitec, QLD

1215 Discussion

Venue: Corryong 1
DEVICES

Case studies on devices and diagnostics and future national and international perspectives

Chair: Dr Jonathan Wright, ResMed

1100 *Invetech: experience in product development in medical devices – from regulatory to release*
Mr Chuck Mays Invetech Operations, VIC

1120 *Structural issues in the establishment and growth of Sunshine Heart Company*
Mr Crispin Marsh SCP Technology & Growth, NSW

1140 *Globalisation? "Go see a psychiatrist"*
Prof Ron Sekel Portland Orthopaedics, NSW

1200 *ResMed: a perspective from a global company*
Dr Jonathan Wright ResMed, NSW

1220 Discussion

Venue: Corryong 2
PLANT BIOTECHNOLOGY

Australia's competitive position

Chair: Dr Michael Dalling, Nufarm

1100 *Crop biotechnology as if farming mattered*
Dr John Angus CSIRO Plant Industry, ACT

1120 *Florigene – using gene technology to innovate and add value in horticulture*
Dr Stephen Chandler Florigene, VIC

1140 **Dr Richard Jefferson** CAMBIA, ACT

1200 Panel discussion

Venue: Otway 2
EXPEDITING DISCOVERY AND COMPETING IN A GLOBAL MARKET
Sponsored by IBM

Chair: Mr Tony Palanca, IBM Life Sciences Client Executive

1100 *Information technology for the life sciences*
Dr Joseph Jasinski Computational Biology Centre, IBM Research (Global), USA

1130 *Technological reform of the discovery process*
Ms Farhana Nakhooda IBM Asia Pacific Life Sciences Solutions, Asia-Pacific

1200 *Platform integration for expediting discovery*
Mr John Garrison AccelRys, NSW

1220 Discussion

1230-Venue: **You Yangs Exhibition Hall – BioIndustry Exhibition**
1400 Lunch & poster viewing sponsored by **Department of Innovation and Information Economy, Queensland**

1400-1530 hours
Venue: John Batman Theatre
DISCOVERY

Feeding the development pipeline

Venue: LaTrobe Theatre
IDENTIFYING MARKETS
Sponsored by City of Melbourne
Push and pull – the dynamic balance

Venue: Corryong 1
DIAGNOSTICS
Diagnostics of the future

Venue: Corryong 2
ANIMAL DERIVED BIOLOGICALS
Sponsored by Meat & Livestock Australia
Unlocking Australia's competitive capabilities, building on our strengths in animal genetics and functional genomics

Venue: Otway 2
BUILDING EXCELLENCE THROUGH GOVERNMENT PARTNERSHIPS
Sponsored by Commonwealth of Australia

Chair: Dr Deborah Rathjen, Bionomics

1400 Interaction equals function
Dr David Edwards Hybngen, USA

Chair: Prof Simon Carroll, WABRI

1400 Analysing the market pull for new technologies Dr Lisa McIntyre LEK Consulting, NSW

Chair: Dr Peter Devine, Progen Industries

1400 The future of diagnostics Mr Mel Bridges PanBio, QLD

Chair: Prof Christopher Hudson, Meat & Livestock Australia

1400 Australia as a preferred source of biologicals for the biotechnology industry Dr Leland Foster Hyclone Laboratories, USA

Chair: Prof John Hearn, BIOZ

1400 Commonwealth biotechnology policy: the framework for growth Ms Kerri Hartland Biotechnology Australia, ACT

1425 Small molecule drug discovery: from platform to pipeline Dr Andrew Wilks Cytosia, VIC

1415 Strategic alliances: building excellence through partnerships Dr Rodney Stevens Pfizer PGRD Nagoya Labs, Japan

1430 Protein array technologies: a new era in diagnostics Dr Robert Irving CSIRO Health Sciences and Nutrition, VIC

1430 Unlocking the secrets in livestock genomes, and creating value for animal-based industries Dr Phil L'Huillier ProBio, VIC

1445 Strategies to identify and market biotechnologies Mr Shaun Coffey CSIRO Livestock Industries, QLD

1500 Current status and future perspective of livestock genomics research Dr Steven Kappes USDA-ARS, USA

1500 Prof Alan Pettigrew National Health & Medical Research Council, ACT

1450 Harnessing Australia's biodiversity for drug discovery Dr Jackie Falley Cerylid Biosciences, VIC

1450 Microtechnologies and diagnostics Mr Clive Davenport CRC for microTechnology, VIC

1510 Case study: Ambri – biosensors in diagnostics Dr Joseph Shaw Ambri, NSW

1500 Positioning great science for market success Dr Marilyn Sleight EvoGenix, NSW

1515 Panel discussion

1530 Refreshment break & poster viewing

Venue: You Yangs Exhibition Hall – BioIndustry Exhibition

1515 The Proteome System's story Dr Keith Williams Proteome Systems, NSW

1530 Refreshment break & poster viewing

Monday 18 August

1600-1700

Venue: John Batman Theatre
FINANCING AUSTRALIAN LIFE SCIENCE COMPANIES

Chair: Mr Stan Yakatan, Katan Associates International
1600 *Attracting funding in volatile markets: lessons learned* **Dr Peter Hanley** Macquarie Bank, NSW
1615 *A venture capital perspective* **Mr Doron Ben-Meir** ES Group Ventures, VIC

1630 *Financing your start-up* **Mr Ross Dohinson** TSL Group, VIC
1645 **Mr Art Pappas** AM Pappas & Associates, USA

1700 *Turnaround* **Dr Karen Bernstein** BioCentury Publications, USA

1715 Discussion

Venue: LaTrobe Theatre
GENE THERAPY
Will gene therapy deliver?

Chair: Prof Anthony Weiss, University of Sydney
1600 *Gene therapy here and now* **Assoc Prof John Rasko** Centenary Institute & Sydney Cancer Centre, NSW

1630 *Gene therapy for prostate cancer: a new approach to an old problem* **Dr Gerald Both** CSIRO Molecular Science, NSW

1650 *Alternative approaches to gene therapy: antibiotics to antisense oligonucleotides*
Dr Steve Wilton Centre for Neuromuscular & Neurological Disorders, WA

1710 *Trials and tribulations in the gene transfer process* **Assoc Prof Geoff Symonds** Johnson & Johnson Research, NSW

Venue: Corryong 1
PANEL DISCUSSION – OPTIONS FOR DEVELOPING BIOPHARMACEUTICALS
Getting value for your money

Chair: Dr Graeme Blackman, Institute of Drug Technology Australia

Participants will include the following:

Mr Jim Ackland Biologics Consulting Group, USA

Dr George Mihaly Kendle, VIC

Dr George Morstyn Amgen, VIC

Dr Ross Murdoch Prana Biotech, VIC

Dr Phillip Reece Boron Molecular, VIC

Venue: Corryong 2
AGRIFOOD
Novel opportunities for Australian agriculture

Chair: Dr Wendy Craik, Life Sciences Network
1600 *Novel opportunities for Australian agriculture – benefits for consumers and producers* **Dr Glenn Tong** AgGenomics, VIC

1620 *Novel agrifood products from biotechnology* **Dr Phillip Salisbury** University of Melbourne, VIC

1640 *Novel opportunities for Australian agriculture – managing innovation* **Ms Naomi Stevens** Aventis Crop Science, VIC

1700 Panel discussion

1730– Venue: You Yangs Exhibition Hall – BioIndustry Exhibition
1830 INTERNATIONAL HAPPY HOUR Sponsored by Meat & Livestock Australia

Monday 19 August

TUESDAY 20 AUGUST 2002

Venue: Bellarine 3

CEO NETWORKING BREAKFAST

Sponsored by *Invest.UK*

Round table: *Managing cultural differences*

Chair: Prof Eispeth McLachlan, University of New South Wales

0700 Welcome and light refreshments

0710 Introduction by Prof Eispeth McLachlan

0720 Dr Kelvin Hopper Aoris Nova, NSW

0730 Assoc Prof Peter Steinberg University of New South Wales, NSW

0740 Dr Paul Donnelly CRC for Innovative Dairy Products, VIC

0750 Dr Marilyn Steigh EvoGenix, NSW

0800 Mr Michael Oredsson Biosignal, NSW

0810 Mr Alan Williams Managing Resources, UK

0820 Discussion

0830 Breakfast concludes

Venue: John Batman Theatre

PLENARY SESSION

Chair: Prof Graham Mitchell, Foursight Associates

0900 *What are we good at now?* Prof Graham Mitchell Principal, Foursight Associates, VIC

0910 *Biotechnology Centre of Excellence: stem cells and tissue repair* Prof Alan Trounson CEO, Biotechnology Centre of Excellence, VIC

0950 *The world's our stage – is 'Big Pharma' the Holy Grail?* Dr Ismail Kola Vice President, Pharmacia Corporation, USA

1030 Refreshment break & poster viewing Sponsored by *Lander & Rogers Lawyers*

Venue: Bellarine 2

ROUND TABLE FORUM BREAKFAST

Sponsored by *Kelly Scientific Resources*

Biotechnology for Non-Biotechnologists

Chairs: Dr David Tribe, Melbourne University and

Assoc Prof Marian Dobos, RMIT University

0700 Welcome and light refreshments

0715 Introduction by Dr David Tribe & Assoc Prof Marian Dobos

0720 *Stem cell research* Dr Louise Baker Stem Cell Sciences, VIC

0730 *Plant biotechnology* Assoc Prof Trevor Stevenson RMIT University, VIC

0740 Break

0755 *Medical device technology* Dr Derrick Beech Medical Technology Consulting, NSW

0805 *Genetic fingerprinting* Dr David Tribe Melbourne University, VIC

0815 Discussion

0830 Breakfast concludes

1100-1230 hours

Venue: John Batman Theatre
REGENERATIVE MEDICINE
Sponsored by Invest.UK

Opportunities and challenges in the development of stem cells & xenotransplantation

Chair: Dr John Smeaton, BresaGen

1100 *Commercialising stem cell technology in a climate of uncertainty* **Mr Robert Klupacs** ES Cell International, VIC & *Towards a stem cell therapy derived cure for diabetes* **Dr Alan Colman** ES Cell International, Singapore

1120 *Stem cell sciences: a proven track record of a global business* **Dr Peter Mountford** Stem Cell Sciences, VIC

1140 *Human embryonic stem cells for neural therapy* **Dr Allan Robins** BresaGen, USA & *The 'Total Product Concept' in cell therapy development* **Dr Christopher Jurtner** BresaGen, SA

1200 Panel discussion

Venue: LaTrobe Theatre
SMALL MOLECULES

Does size really matter? Bigger isn't necessarily better when it comes to therapeutic molecules

Chair: Prof Peter Andrews, IMBcom

1100 *Pros and cons in development of small molecules as drugs* **Prof Colin Pouton** Monash University, VIC

Venue: Corryong 1
ENVIRONMENTAL BIOTECHNOLOGY
Sponsored by Biotechnology Industry Organization

Chair: Dr David Garman, CRC for Waste Management & Pollution Control

1100 *Environmental biotechnology for waste treatment* **Prof Willy Verstraete** LabMET, Belgium

Venue: Corryong 2
LEGAL ISSUES

Exploring legal and regulatory issues that impact on a biotechnology business

Chair: Mr Ian Pyman, IP Projects

1100 *Privacy laws and their impact on biotechnology companies* **Ms Karin Clark** Allens Arthur Robinson, VIC

1112 *Corporate governance – confidentiality and disclosure issues* **Ms Selma Lightfoot** Freehills, VIC

1124 *Recent trends and terms in venture capital in the US* **Ms Angélique Mentis** Pillsbury Winthrop (International), NSW

1136 *Gene technology regulation* **Dr Sue Meek** Office of the Gene Technology Regulator, ACT

1130 *Potentials of bioaugmentation to optimizing Enhanced Biological Phosphorous Removal (EBPR) under dynamic loading conditions* **Dr Eberhard Morgenroth** University of Illinois at Urbana-Champaign, USA

1145 *Library size – combinatorial chemistry vs structure based drug design* **Prof Peter Andrews** IMBcom, QLD & **Dr Mark Smythe** IMBcom, QLD

1148 *Ownership of intellectual property created by employees and contractors* **Ms Katharine Kemp** Victorian Bar, VIC

1200 *Spinning off, cashing up and branching out: commercialisation considerations for budding bioentrepreneurs* **Mr Nick Wells** Gilbert & Tobin, NSW

1212 Discussion

1200 *Applications of SIMS for environmental analyses* **Mr Robert Russell** ANSTO, NSW

1215 *The investigation of bacterial isolates obtained from heavy metal- and PAH-contaminated soil samples* **Miss Belinda Davis** Victoria University, VIC

1230- Venue: You Yangs Exhibition Hall – Bioindustry Exhibition
1400- Lunch & poster viewing. Sponsored by Biotechnology Industry Organization

Tuesday 20 August

1400-1530 hours

Venue: John Batman Theatre
**PEOPLE/SKILLS DEVELOPMENT I:
HYPOTHETICAL**

*Building a competitive bio workforce: a
hypothetical with Dr Norman Swan*

Chair: Mr Jeremy Wurm, Brooker Consulting
Participants will include the following:

Ms Alison Coutts EG Capital, NSW

Mr Conrad Crisafulli TechStart Australia, WA

Prof Terence Dwyer AM University of Tasmania,
TAS

Dr Andy Gearing Biocomm Services, VIC

Dr Michael Hirshorn Nanyang Ventures, NSW

Dr Jurgen Michaelis Bio Innovation SA, SA

Prof Leanna Read TGR BioSciences, SA

Venue: LaTrobe Theatre
ALLIANCES & PARTNERING

*Sponsored by Department of Innovation &
Information Economy, Queensland*

How to choose wisely and effectively

Chair: Dr Hugh Niall

1400 *The art of strategic corporate partnering*
Dr Stanley Crooke Isis Pharmaceuticals, USA

1420 Dr Jonathan Izant Garvan Institute of
Medical Research, NSW

1435 *How to decide when, how and with whom
to partner* Dr Lisa McIntyre LEK Consulting,
NSW

1450 *Alliances and partnerships: the Alchemia
perspective* Dr Tracie Ramsdale Alchemia, QLD

1505 *Merck & Co - strategy for growth*
Mr Paul Bell Merck Sharpe & Dohme, NSW

1520 Discussion

Venue: Corryong 1
VACCINES & IMMUNOTHERAPEUTICS

Modulating immune systems to treat disease

Chair: Dr Larry Ward, Virax Holdings

1400 *Therapeutic immunisation: disease control
through the immune system* Prof Richard
Strugnell CRC for Vaccine Technology, VIC

1420 *New approaches to cancer
immunotherapy* Prof Ian McKenzie Austin
Research Institute & Prima Biomed, VIC

1435 *Therapeutic vaccination for cancer and
chronic infectious disease* Dr Andrew
Cuthbertson CSL, VIC

1450 *A novel therapeutic vaccine approach
that can neutralize any self-antigen over
expressed in human chronic diseases*
Dr Anand Gautam Pharmexa, Denmark

1505 *Can mycobacterial vaccines reset the
immunological imbalance in psoriasis and in
atopy?* Dr Douglas Wilson Genesis, NZ

1520 Discussion

Venue: Corryong 2
FERMENTATION & BIOPROCESSING

*How you do it; who you do it with; why do it at
all*

Chair: Dr David Irving, P12

1400 *Manufacture of cGMP clinical materials -
a contractor's perspective* Dr John Grew Fort
Dodge, NSW

1415 *Fermentation and bioprocessing: how,
who and why - a GroPep perspective*
Dr Nicholas Kotlarski GroPep, NSW

1430 *Bioprocess development, from the lab to
the clinic* Mr Les Tillack Progen Industries, QLD

1445 *Process development: to do, or not to
do? That is the question!* Dr Stan Bastiras
BresaGen, SA

1500 *Fermentation and bioprocessing:
Alpharma's perspective* Mr David Hughes
Alpharma Animal Health, VIC

1515 Discussion

Venue: You Yangs Exhibition Hall - BioIndustry Exhibition

1530 Refreshment break & poster viewing

Tuesday 20 August

1600-1730 hours

Venue: John Bateman Theatre
ETHICAL DIMENSIONS IN BIOTECHNOLOGY
Ethical safeguards and considerations in biotechnology

Chair: Ms Samantha O'Connor, Pfizer

1600 *Introduction to ethical issues* **Dr Simon Longstaff** St James Ethics Centre, NSW

1615 *Ethics and the stem cell debate*
Dr Simon Longstaff St James Ethics Centre, NSW & **Prof Alan Trounson** Biotechnology Centre of Excellence, VIC

Venue: LaTrobe Theatre
PEOPLE/SKILLS DEVELOPMENT II
Sponsored by Kelly Scientific Resources
Hot jobs and where to find them

Chair: Ms Deirdre Perkins, Kelly Scientific Resources

1600 *An overview of the worldwide biotechnology industry: where the hot jobs are*
Mr David Jensen Search Masters International, USA

1635 *A pharmaceutical company perspective on recruiting* **Ms Julie Todaro** CSL, VIC

1650 *Hot jobs and where to find them*
Mr Peter Sullivan Virionyx Corporation, NZ

1705 *Are our biotechnology graduates any good?* **Prof Peter Gray** University of New South Wales, NSW

1715 Discussion

Venue: Corryong 1
CORPORATE COMMUNICATIONS AND PUBLIC RELATIONS

Communicating with stakeholders
Chair: Ms Paula Fitzgerald, Agrifood Awareness Australia

1600 *Development of best practice communication strategies for public awareness on biotechnology issues* **Mr Craig Cormick** Biotechnology Australia, ACT

1620 *Science meets Parliament. a FASTS' initiative* **Mr Toss Gascoigne** FASTS, ACT

1640 *Industry link* **Dr TJ Higgins** CSIRO Plant Industry, ACT

1700 *Ms Bronwyn Burr* Cotton Australia, NSW

1720 Discussion

Venue: Corryong 2
AGBIO

Convergence of agrifood and biomedical technologies

Chair: Mr Stephan Wellink, University of Technology Sydney

1600 *Functional foods* **Dr Michael Eyles** Food Science Australia, NSW

1620 *Barriers to biotech: community opposition to modern biotechnologies* **Mr Julian Cribb** Julian Cribb & Associates, ACT

1640 *Plant made pharmaceuticals* **Dr Mike Phillips** BIO, USA (invited guest)

1700 *Agrifood and medical biotechnology – public concerns and public acceptance*
Mr Craig Cormick Biotechnology Australia, ACT

1720 Discussion

1730-Venue: Atrium Foyer, Level 3

1830 WINE AND CHEESE TASTING *Sponsored by Government of Western Australia*

Venue: Bellarine Rooms 6 & 7
1930 CONFERENCE DINNER *Sponsored by the Diamond Sponsor Consortium*

Speaker: *Building excellence through partnerships* **Hon Ian Macfarlane** Federal Minister for Industry, Tourism & Resources

Tuesday 20 August

WEDNESDAY 21 AUGUST 2002

Venue: Melbourne Exhibition Centre Concourse

0700-PARTNERING & INVESTMENT FORUM BREAKFAST

0830 Hosted by: Hon John Brumby Minister for State & Regional Development, VIC
MC: Mr Stan Yakatan Katan Associates International, USA

Speakers: Mr Peter Morgan Kash Senior Managing Director, Paramount Capital, USA and Mr David Robinson CEO, Lugand, USA

Venue: John Batman Theatre

PLENARY SESSION

Session chair: Dr Robin Batterham The Chief Scientist, Australia

0900 Introduction by Dr Robin Batterham The Chief Scientist, Australia

0910 *The European biotechnology experience* Mr Alan Williams Chairman, Managing Resources, UK

0945 *'Telling Tales': addressing public perceptions in the biotechnology debate – lessons from other industry sectors* Dr Sheridan Coakes Director, Coakes Consulting, WA

1020 *Farewell to delegates* by Cr Irene Goonan Chair, Marketing and Business Development Committee, City of Melbourne, VIC

Venue: You Yangs Exhibition Hall – Bioindustry Exhibition

1030 Refreshment break & poster viewing

National Student Honours Award certificate presentations **Sponsored by The University of Queensland**

1100-1230 hours

Venue: John Batman Theatre

EMERGING TECHNOLOGIES I

Innovation equals technology of the future

Chair: Dr Tim Littlejohn, Biolateral

1100 *Development of biocatalytic processes for industrial applications* Dr Michael Breuer BASF, Germany

1130 *Complex systems* Dr Simon Easteal John Curtin School of Medical Research, ACT

1145 *Elucidating molecular pathways in human health by genome-wide mutagenesis in mice* Prof Christopher Goodnow John Curtin School of Medical Research, ACT

1200 *From informatics to bioinformatics* Prof Limsoon Wong Laboratories for Information Technology, Singapore

1215 Discussion

1230-Venue: You Yangs Exhibition Hall – Bioindustry Exhibition

1400-Lunch & poster viewing **Sponsored by Australian Stock Exchange**

Venue: Corryong 1
PROTEINS & MONOCLONAL ANTIBODIES

Proteins to the rescue

Chair: Dr Phil Jennings, Peptech

1100 *Novel designs of recombinant antibodies for clinical diagnosis and therapy* Prof Peter Hudson CRC For Diagnostics & CSIRO Health Sciences and Nutrition, VIC

1130 *Antibody engineering and related approaches to therapies targeting TNF* Dr Phil Jennings Peptech, NSW

1200 *Molecular targets for cancer therapeutics* Assoc Prof Andrew Scott Ludwig Institute for Cancer Research, VIC

Venue: LaTrobe Theatre

PATENT & LICENSING STRATEGY

Putting it into practice, with case studies

Chair: Mr James Cherry, Freehills Carter Smith Beadle

1100 *Patent strategy* Dr John Wetherell Pillsbury Winthrop LLP, USA & Dr Robert Crawford Bresagen, SA

1145 *Licensing strategy* Mr Adam Liberman Freehills, NSW & Ms Robyn Fry Amrad Corporation, VIC

Wednesday 21 August

1400-1530 hours

Venue: John Bateman Theatre
PRICING PHARMACEUTICALS: PANEL DISCUSSION

Chair: John Kilborn, Bristol-Myers Squibb Pharmaceuticals
Participants will include the following:

Dr Stanley Crooke Isis Pharmaceuticals, USA

Mr Art Pappas AM Pappas & Associates, USA

Mr David Robinson Ligand, USA

Emeritus Prof Lloyd Sansom Pharmaceutical Benefits Advisory Committee, SA

Venue: LaTrobe Theatre
MATURING PUBLIC BIOTECH COMPANIES
Sponsored by Australian Stock Exchange
Growing pains

Chair: Dr John Ballard, BR Angels

1400 *Overview of the challenges* **Dr John Ballard** BR Angels, SA

1420 *Maturing public biotech companies in the Australian context* **Mr Stephen Kwik** Peptech, NSW

1440 *Maturing public biotech companies – Amrad, a case study*
Dr Sandra Webb Amrad Corporation, VIC

1500 *Leveraging of a sense of purpose* **Mr Victor Skladnev**
Polartechnics, NSW

1520 Discussion

Venue: Corryong 1

EMERGING TECHNOLOGIES II

A material difference – Australian innovations in biomaterials and medical devices

Chair: Prof Arthur Brandwood, Brandwood Biomed

1400 *Matching the technology to the market* **Dr Bruce Cornell**
Ambr, NSW

1415 *Biostable polyurethanes* **Dr Mike Skalsky** AorTech Biomaterials, NSW

1430 *Microparticle radiation therapy for liver cancer* **Dr Collin Sutton** SIRTex Medical, NSW

1445 *Collagen based vascular prostheses* **Mr Hugh McCormack**
Bio Nova International, VIC

1500 *Cartilage tissue engineering* **Dr Jerome Werkmeister**
CSIRO Molecular Science, VIC

1515 Discussion

Venue: You Yangs Exhibition Hall – BioIndustry Exhibition
1530 Refreshment break & poster viewing

Wednesday 21 August

1600-1730 hours

Venue: John Batman Theatre
THE LISTING EXPERIENCE
Sponsored by London Stock Exchange

Chair: Mr Philip Mastriforte, London Stock Exchange
1600 *The London advantage and techMARK Mediscience*
Mr James Woodley London Stock Exchange, UK

1620 *An overview of AIM* Mr Simon Brickles London Stock Exchange, UK

1630 *Listing experiences* Dr John Sime Imperial College, UK

1650 *Confession without absolution* Dr Peter Bick CogState, VIC

1705 *Mr Richard Murphy* Australian Stock Exchange, NSW

1720 Discussion

1730 *AusBiotech 2002 Conference & Investment Forum concludes*

Venue: LaTrobe Theatre
PRACTICAL PATENT ISSUES FOR RESEARCHERS

Chair: Ms Karen Sinclair, Watermark
1600 *How much data do I need to obtain a patent?* Dr Stuart Boyer Griffith Hack, VIC

1620 *Using patent information as a major source of information for developing and implementing a licensing strategy* Mr Richard Derrick Derwent Information, UK

1640 *Patent searching: what, when and why* Dr Gavin Recchia Spruson & Ferguson, NSW

1700 *Methods of screening and 3D structure patents – how do I get one and what are they worth?* Dr Bill Pickering Blake Dawson Waldron Patent Services, VIC

1720 Discussion

Venue: Corryong 1
CODES OF ETHICAL PRACTICE IN BIOTECHNOLOGY TODAY

Chair: Dr John Carnie, Victorian Government
1600 *Grey letter law – codes of ethical practice in biotechnology and quasi-regulation* Dr Stephen Rimmer Office of Regulation Review, ACT

1620 *Mr Jeremy Kenner* Peter MacCallum Cancer Institute, VIC

1640 *Progress in developing codes of practice:*

- Queensland Government representative
- New South Wales Government representative
- South Australian Government representative
- Western Australian Government representative
- Victoria Government representative
- ~~BIO representative: Mr Steve Lawton~~ BIO, USA (invited guest)

1710 Discussion

THINGS TO DO IN MELBOURNE

Melbourne, with an estimated population of 3.5 million, is a dynamic multi-cultural city offering something for everyone.

- Crown Casino complex – one of the world's largest entertainment and casino complexes
- Choose from over 4,000 restaurants offering more than 75 styles of cuisine – Melbourne offers more restaurants per capita than anywhere on earth
- Excellent shopping – Chapel Street, Collins Street and Bridge Road, (Richmond)
- Yarra River Cruise
- Melbourne Zoo
- Melbourne Aquarium
- Healesville Sanctuary – meet native Australian wildlife in a bushland setting
- View Melbourne's legacy of history by tram
- Victorian Arts Centre and Museum
- Victoria Markets
- Stroll through some of Australia's most beautiful parks and gardens

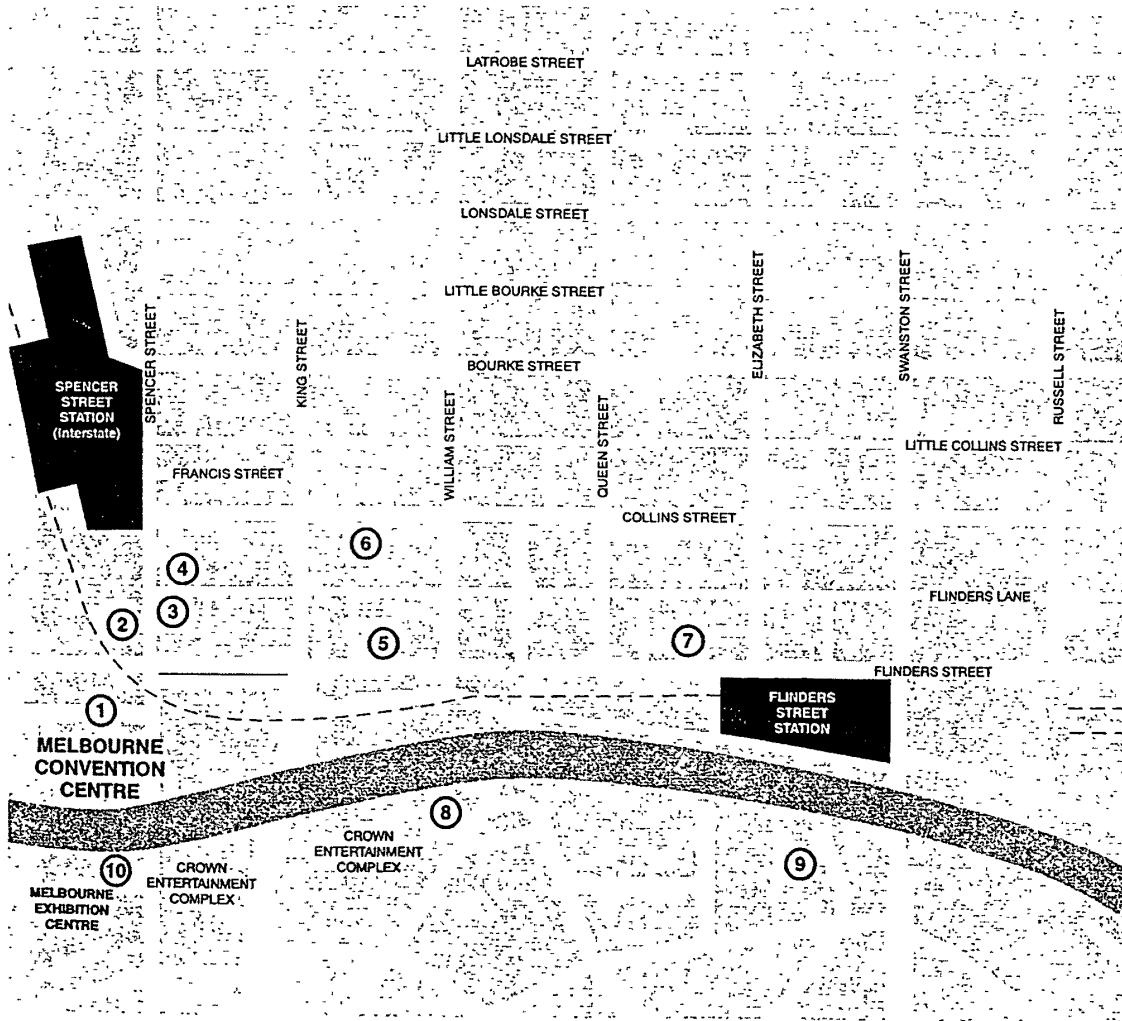
For post-Conference touring, don't miss the unrivalled beauty of scenic Victoria:

- Great Ocean Road and Twelve Apostles
- Fairy penguins of Phillip Island
- Winery and gourmet tours of the Dandenongs, Yarra Valley and Macedon Ranges
- Seaside flora and fauna of Mornington Peninsula

For further information on things to do in Melbourne/Victoria during your stay, contact the Victoria Visitor Information Centre by phone or in person at:

Victoria Visitor Information Centre
Melbourne Town Hall
90-120 Swanston Street
Telephone: 9658 9955

Opening Hours: Mon-Fri: 9am-6pm; Sat/Sun: 9am-5pm



Holiday Inn Melbourne ①
Cnr Flinders & Spencer Streets

Grand Hotel ②
33 Spencer Street

Holiday Inn on Flinders ③
Cnr Flinders Lane & Spencer Street

Hotel Enterprize ④
44 Spencer Street

Riverside Apartments ⑤
474 Flinders Street

Le Meridien at Rialto ⑥
495 Collins Street

Duxton Hotel Melbourne ⑦
328 Flinders Street

Crown Towers ⑧
8 Whiteman Street, Southbank

Pacific International Apartments ⑨
Southbank
30 City Road, Southbank

Melbourne Convention Centre ⑩
Cnr Spencer & Flinders Sts

Melbourne Exhibition Centre ⑪
2 Clarendon Street, Southbank