IPA 8th World Congress OF PHOTODYNAMIC MEDICINE June 5-9

VANCOUVER

2001

Clinical & Basic Applications of Photodynamic Medicine New Visions for the New Century

CONGRESS PROGRAM & ABSTRACTS

Hosted by the International Photodynamic Association The University of British Columbia British Columbia Cancer Agency Vancouver Hospital & Health Sciences Centre

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Contributors

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Message from the Congress

n behalf of the University of British Columbia, the British Columbia Cancer Agency, and the Vancouver Hospital and Health Sciences Centre, it is a pleasure to welcome you to Vancouver and the 8th IPA World Congress of Photodynamic Medicine.

The broad range of abstracts combined with our international panel of distinguished plenary speakers has allowed us to create a program that essentially covers the entire spectrum of photodynamic medicine today. We are truly grateful for the tremendous support we have been fortunate to receive from the PDT community.

In addition to the scientific program, we continue the IPA tradition of fabulous social functions where you will have the opportunity to network informally with long-time colleagues as well as new friends. We look forward to seeing you at both the reception and the closing banquet.

Finally we would like to recognize and thank our sponsors. It is through their generous support that a meeting such as this can be convened. We thank you for taking the time to join us in Vancouver, and look forward to an exciting exchange of science and medicine.

Welcome to Vancouver!

Stuph. Jam

Stephen Lam, MD, FRCPC Congress President

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Harvey Lui, MD, FRCPC Scientific Program Chair

Key Addresses and Contacts

Congress and Exhibition Secretariat

Events by Design Inc. 601 – 325 Howe Street Vancouver, BC Canada V6C 1Z7 Phone 604.669.7175 Fax 604.669.7083 Email info@ebd.bc.ca



Congress Web Site

www.dermweb.org/pdt2001

Committee

Honorary Presidents

Yoshihiro Hayata

Congress President Stephen Lam

Congress Vice-President Harvey Lui

Thomas Dougherty

Scientific Committee

Harvey Lui (Chair, Canada) Rox Anderson (USA) Kazuhiko Atsumi (Japan) Patrick Barron (Japan) **Robert Bissonnette** (Canada) Stephen Bown (UK) Neil Bressler (USA) Stanley Brown (UK) Denis Cortese (USA) David Cramb (Canada) Eric Edell (USA) Frank Gasparro (USA) Charles Gomer (USA) Tayyaba Hasan (USA) York Hsiang (Canada) Steven Jacques (USA) Dieter Jocham (Germany) Giulio Jori (Italy) Harubumi Kato (Japan) Andrew Kaye (Australia) Jim Kennedy (Canada) David Kessel (USA) Mladen Korbelik (Canada) Herwig Kostron (Austria)

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Schedule at a Glance

DATE Tuesday, June	e 5 Wednesday, June 6	Thursday, June 7	Friday, June 8	Saturday, June 9
07:00		Interest Group Breakfast 07:00 – 08:15		
07:30		pre-registration required		
08:00				
08:30	Official Introduction/ Welcome Plenary	Plenary 3 08:30 - 10:00	Plenary 5 08:30 - 10:00	Plenary 7 08:30 - 09:30
09:00 Satellite Meet 09:00 - 11:00	08:30 – 10:00 • Opening Overview • Establishment of the IPA • Keynote Address	 Photosensitizer Light Sources Dosimetry	 Mechanisms of Action of PDT Cellular Mechanisms Molecular Mechanisms Moving to Clinical 	Upper GI PDT Immune Modulation
09:30 hosted by Berlex Laborate	•AE Profio Memorial Lecture		Treatments • Cardiovascular PDT	
10:00 The Emerging		Break/Exhibits/Posters 10:00 - 10:30	Break/Exhibits/Posters 10:00 - 10:30	Break 09:30 - 10:00
10:30 of 5-Ala PDT in Dermatology	Plenary 2 10:30 - 12:00	Plenary 4 10:30 – 12:00	Plenary 6 10:30 – 12:00	Plenary 8 10:00 – 12:00
11:00	 Regulatory Issues in PDT Clinical Applications of PDT in Ophthalmology Gynecology 	 Clinical Applications of PDT in Thoracic Medicine Clinical Applications of PDT in Dermatology 	 PDT in Urology Clinical Applications of PDT in Biliary and Pancreatic Diseases 	 Drug Discovery and Clir Trials
11:30	- dynecology	 Photodynamic Diagnosis and Photodynamic Therapy of Brain Tumors 	Head and Neck Cancer	
12:00	Lunch Break Exhibits/Posters	Lunch on the Exhibit Floor, and IPA AGM	Lunch Break/Exhibits/Po 12:00 - 13:30	sters
12:30	12:00 - 13:30	with lunch	Visudyne [™] Session 12:00 – 13:15	
13:00 Satellite Meet 13:00 - 15:00	ing		 Visudyne[™] Therapy for the Trea Wet Age-Related Macular Dege pre-registration was required 	
13:30 hosted by Axcan Scandiph	harm Inc. • Cardiovascular	Concurrent Symposia 13:30 – 15:00 • Dermatology (1 of 2)	Concurrent Symposia 13:30 – 15:00 • Dermatology (2 of 2)	
14:00 Photodynamic Gastrointestin	• Light Sources & Delivery (1 of 2)	Non-Oncologic • Mechanisms of Action (2 of 3) • Upper GI (1 of 2) • Dosimetry (1 of 2)	 Infectious Diseases/ Topical PDT (1 of 2) Optical Diagnosis (2 of 2) Photosensitizers (3 of 3) 	
14:30 Applications	Mechanisms of Action (1 of 3)	• Urology/Gynecology (1 of 2)	• Urology/Gynecology (2 of 2)	
15:00	Break/Exhibits/Posters 15:00 - 15:30	Break/Exhibits/Posters 15:00 – 15:30	Break 15:00 – 15:30	
15:30	Concurrent Symposia 15:30 – 17:00 • Ophthalmology (2 of 2)	Concurrent Symposia 15:30 – 17:00 • Optical Diagnosis (1 of 2)	Concurrent Symposia 15:30 – 17:00 • Regulatory Issues &	
16:00 Satellite Meet 16:00 - 18:00	• ENT • Advances in PDT • Photosensitizers (1 of 3)	 Biliary/Pancreatic/Lower GI Neurosurgery Photosensitizers (2 of 3) 	Outcomes Research in PDT • Topical PDT (2 of 2) • Immunomodulation	
16:30 hosted by QLT Inc.	• Light Sources & Delivery (2 of 2)	• Upper GI (2 of 2)	 Mechanisms of Action (3 of 3) Dosimetry (2 of 2) 	
17:00 Expanding Hou in PDT	izons			
17:30				
Evening	Welcome Reception 18:45 Buses leave from Melville	e St. entrance	Banquet 19:00	

Congress Badges and Tickets

Official Congress badges will be required for admission to all scientific and social functions. If you are bringing a guest to either the Welcome Reception or the Closing Banquet, they will require a ticket, but not a badge. If you require a ticket please check with the Congress Registration Desk for availability.

Key Contacts

Hyatt Regency Vancouver

655 Burrard Street	
Telephone	604.683.1234

Messages

Hotel Guest Fax

Please call the Hyatt and ask for the IPA Registration Desk

604.689.3707

General Travel Information

Vancouver Bus Depot	482.8747
Weather Information	664.9010
BC Ferries	1.888.223.3779
Vancouver Airporter Bus	946.8866
Tourism Vancouver	683.2000

Delegate Services

Registration Desk

The Congress Registration Desk will be open the following hours:

Tuesday	8:00ам – 6:00рм
Wednesday	7:30ам – 6:00рм
Thursday	7:30ам – 5:00рм
Friday	7:30ам – 5:00рм
Saturday	7:30ам – 10:00ам

Speaker Centre

If you are giving an oral presentation, please check in with the Speaker Centre prior to your presentation. The Speaker Centre is located in the King George Room and will be open the following hours

Tuesday	11:00ам – 6:00рм
Wednesday	7:30ам – 5:00рм
Thursday	7:30ам – 5:00рм
Friday	7:30ам – 5:00рм
Saturday	7:30am – 12:00noon

Exhibit

All refreshment breaks will take place inside the exhibit area beside the Plenary Room when it is open.

Wednesday	9:30ам – 4:00рм
Thursday	9:30ам – 4:00рм
Friday	9:30ам – 11:00ам

Poster Viewing

Posters highlighting the latest developments and ongoing research from around the world will be available for viewing throughout Wednesday and Thursday, and until noon on Friday. All posters will be on the 3rd Floor of the Hyatt Regency Vancouver.

CME Accreditation

The Division of Continuing Medical Education (CME), University of British Columbia is accredited to sponsor continuing medical education for physicians by both the Committee on Accreditation of Canadian Medical Schools (CACMS) and the Accreditation Council for Continuing Medical Education (ACCME) of the United States.

Visitor Information

Meals and Snacks

There are a wide range of restaurants and food fairs located throughout the downtown core including Royal Centre Mall and Food Fair which is attached to the host hotel. You will find a range of choices from inexpensive snacks to fine dining in close proximity to the hotel. The Congress Registration Desk and the hotel concierge will both be pleased to assist you.

Banking/Foreign Exchange

Several major financial institutions and currency exchanges are available within blocks of the hotel and are easily found. Automatic Teller Machines are available at nearby banks for those delegates wishing to use bank cards.

The Canadian monetary system is decimal-based. One hundred cents equals one dollar. Visitors are advised to exchange their currency at a bank or foreign exchange outlet, to ensure they receive the prevailing rate of exchange. Most shops and services will cash travelers cheques, exchange US\$ currency, and accept all major credit cards, but it is advisable to have Canadian cash on hand for taxis and other incidentals. Due to continuously fluctuating rates of exchange we encourage you to check with the Foreign Exchange service or a bank for the current rate.

Lost and Found

Please contact the Registration Desk where staff will assist you in connecting with lost items.

Message Centre

Messages may be left for delegates on the Message Board in the Registration area or by calling (604) 683-1234 and asking for the Congress Registration Desk during the registration hours.

Tourism Vancouver

For extensive information on the Vancouver area, please visit the Tourism Vancouver Visitor Centre located 4 blocks from the hotel at 200 Burrard Street.

Transport to/from the Airport

Airport Express

Buses depart from various major downtown hotels for the Vancouver International Airport on a regular basis. The ride takes 20 - 40 minutes depending on traffic and your starting point. Current cost is \$10 one way or \$17 return (return tickets are valid for six moths from time of purchase). Please check with your hotel concierge or call 946.8866 for more information.

Dress

Vancouver has developed a reputation for being a casual city, making most forms of clothing acceptable for almost any occasion. Suitable Conference attire could be characterized as business or smart-casual. For the Closing Banquet, business or cocktail attire is suggested.

Time Zone

In June, Vancouver's clocks are on Pacific Daylight Time, Greenwich Mean Time (GMT) plus 8 hours.

Toronto	+3
London	+8
Tokyo	+17
Sydney	+17
Cairo	+10

Electric Current

Electricity is supplied at 110V - 60Hz AC. Remember to use adapters if required.

Smoking Policy

Vancouver by-laws specify that smoking is not permitted in public places including restaurants. Smoking is not permitted in the Conference venues. However, many outdoor terraces and concourses are available close to Conference events.

GST Rebates

The Goods and Services Tax (GST) is a seven percent tax on most goods and services sold or provided in Canada. Under the Visitor Rebate Program, non-resident visitors may qualify for a foreign tourist rebate of the tax for short-term accommodation and goods that you take home (up to CDN\$500.00). Refund Applications for visitors will be available at Canada Customs offices, most tourism information centres as well as some hotels and retail stores.

Airport Improvement Fee

Passengers departing Vancouver International Airport are required to purchase an Airport Improvement Fee (AIF) ticket. AIF tickets can be purchased from the automatic teller sales machines or AIF Passenger Booths located throughout the airport. Payment can be made in cash (Canadian or American) or by VISA, MasterCard or by some bank debit cards. Travelers are charged \$5 for travel within British Columbia, \$10 for travel to other N. American destinations and \$15 for travel outside N. America.

Shopping

Most stores, boutiques and department stores are open from 9:00 or 9:30AM to 6:00PM on weekdays. On Thursdays and Fridays, most stay open until 9:00PM and on Saturdays until 5:00PM. Most stores are open on Sundays from 12:00 to 5:00PM.

Vancouver, with its unique cultural and ethnic diversity, offers a wide variety of exciting shopping opportunities. Native Westcoast Indian arts and crafts, including gold and silver jewellery, carved in traditional native motifs, are among the more unique artistic products. Also renowned are jade sculptures and jewellery, whalebone scrimshaw carvings and Cowichan Indian sweaters. Specially prepared and packaged seafood, particularly smoked salmon, are popular gift items. Our Chinatown, the second largest in North America, is a bustling community with hundreds of shops and curios where merchants sell authentic Chinese crafts and products. Vancouver also offers high fashion clothing and jewellery boutiques, representing some of the most famous designers in the world. Many of these are centred on Robson Street adjacent to major downtown hotels, the Sinclair Centre adjacent to the cruise ship dock and convention centre, and other downtown areas. For an alternative shopping experience, Vancouver has a number of public markets. Granville Island Market, Lonsdale Quay in North Vancouver and New Westminster Quay all offer local produce, fresh seafood and products fashioned by local artisans. Inquire at the Congress Desk for more details.

Satellite Meeting hosted by Berlex Laboratories Inc. Tuesday, June 5, 0900 – 1100

The Emerging Role of 5-ALA PDT in Dermatology *Chairs*: Colin A. Morton & Allan Oseroff

5-aminolevulinic acid has been investigated in dermatological indications for many years. Now, the first commercially available topical photosensitizer 5-ALA solution (Levulan®) has been registered for the treatment of actinic keratoses. This symposium will present an overview of the clinical data of Levulan and will give an outlook on the broad range of potential applications of 5-ALA PDT in dermatology.

Stan B. Brown – The Advantages of 5-Ala and 5-Ala its Derivatives in Dermatology

Rolf-Markus Szeimies – Institutional Overview of PDT (and PD) in Dermatology: The Regensburg Experience

Edward W.B. Jeffes III – Levulan[®], the First Topical Photosensitizer for the Treatment of Aks

Colin A. Morton – Is PDT Superior to Standard Treatments?

Allan Oseroff – Future Applications of PDT in Dermatology: The Roswell Park Experience

Satellite Meeting hosted by Axcan Scandipharm Inc. Tuesday, June 5, 1300 – 1500

Photodynamic Therapy: Gastrointestinal Applications

Chair: Prof. François Martin, MD

This symposium will present efficacy and safety datas of photodynamic therapy with Photofrin[®] in gastrointestinal indications. In addition some candidate application will be presented.

B.F. Overholt, MD – Long-term Follow-up on Photofrin/PDT Treatment of Barrett's Esophagus

Charles Lightdale, MD – Photofrin/PDT in the Treatment of Obstructive Esophageal Cancer

Maria Anne E.J. Ortner, MD – Photofrin/PDT in the Treatment of Cholangiocarcinoma

Greg Haber, MD – Future Applications of Photofrin/PDT in Other GI Conditions

Satellite Meeting hosted by QLT Inc. Tuesday, June 5, 1600 – 1800

Expanding Horizons in PDT

Chair: Mohammad Azab

Over the past several years, extensive research has been conducted to evaluate photodynamic therapy for treatment of conditions in oncology, ophthalmology, autoimmunity and cardiology. This symposium is designed to acquaint PDT researchers and practitioners from a broad spectrum of fields with the wide-ranging research and development efforts that have been undertaken using verteporfin and other photosensitizers.

Dr. Mohammad Azab, MD and Senior Vice-President, Clinical Research and Medical Affairs for QLT will chair this symposium, during which a panel of distinguished physicians and scientists will present information on preclinical and clinical studies that have recently been conducted within these four areas.

The presentation agenda is as follows:

16:00 - 16:30

Michael J. Potter, MD – Visudyne[™] Therapy for the Treatment of Classic and Occult Choroidal Neovascularization in Age-related Macular Degeneration *The wet form of age-related macular degeneration (AMD) is the leading cause of legal blindness in people over the age of* 50 *in the Western world. Results from the TAP and VIP studies have demonstrated a significant treatment effect for verteporfin therapy in patients with predominantly classic and occult CNV lesions. Two year follow-up from both trials will be presented.*

16:30 - 16:50

David Saperstein, MD – Clinical Trials Using Visudyne[™] Therapy for Choroidal Neovascularization Secondary to Pathologic Myopia (VIP - PM Trial) and Ocular Histoplasmosis Syndrome (VOH Trial) In this session, the effects on visual acuity of patients with subfoveal choroidal neovascular membranes (CNV) in pathologic myopia (PM) and ocular histoplasmosis syndrome (OHS) who were treated with verteporfin will be presented.

Program Features

16:50 - 17:05

Sandra Gollnick, PhD – Photodynamic Vaccination: Review and Data Presentation

One of the potential advantages of photodynamic therapy over other types of cancer treatment is its ability to enhance the host anti-tumor immune response. Studies that have sought to exploit the ability of PDT to enhance tumor immunogenicity by using PDT-generated tumor cell lysates as tumor vaccines have shown that PDT vaccines are effective at suppressing subsequent tumor growth via the generation of tumor specific T-cells.

17:05 - 17:20

Nancy Oleinick, PhD – PDT in Signal Modulation and Apoptosis: Review and Data Presentation

Photodynamic therapy produces localized oxidative damage in cells at or near the intracellular site of photosensitizer binding, resulting in oxidative stress that is highly efficient at activating cellular signaling pathways and prompt apoptosis. This presentation will review the evidence for the intersection of constitutive and PDT-regulated pathways in PDT-induced apoptosis.

17:20 - 17:30

Philippe Margaron, PhD – Review of PDT in Cardiovascular Medicine

Researchers have explored photodynamic therapy as a modality for the reduction and stabilization of atherosclerotic plaques and the inhibition of intimal hyperplasia, and a number of clinical trials are underway. This presentation will first summarize the scientific rationales for PDT in cardiovascular applications before reviewing the approaches being investigated today by the groups actively working in this field.

17:30 - 17:40

Harvey Lui, MD – Review of Verteporfin PDT in Skin Cancer

Historically PDT was first used for treating patients with skin tumors, and this has been the case with verteporfin as well. Early studies of patients with non-melanoma skin cancer confirmed the short duration of systemic photosensitivity with verteporfin, while demonstrating the potential for effective control of primary and metastatic skin tumors. More recent studies have been designed to explore the role of verteporfinbased PDT in patients with multiple skin tumors in terms of both tumor eradication and cosmetic outcome.

17:40 - 18:00 Q & A

Plenary Sessions

Each morning will feature two plenary sessions, each highlighting a clinical or basic aspect of photodynamic medicine. These talks will be given by leaders in the field, many of whom pioneered groundbreaking research. We will also look to the future expectations in this exciting field.

Concurrent Sessions

The afternoon sessions will provide in-depth information for specialists as we focus on specific areas of photodynamic medicine and its uses, challenges and successes.

Interest Group Breakfast Thursday, June 7th, 7:00AM

Join colleagues for this informal gathering over breakfast and share your experiences. Tickets are available at the Congress Registration Desk.

Social Program

Welcoming Reception: A Taste of Vancouver Wednesday June 6

Buses leave from 6:45PM to 7:10PM at the Melville Street entrance of the Hyatt Regency Vancouver

The Vancouver Aquarium and Marine Science Centre is spectacular. You can look forward to an evening of fine food while exploring the exhibits and meeting new friends and old colleagues. Delegate registration includes this evening, if you require guest tickets please see the Congress Registration Desk.



Official Gala Banquet Friday June 8, 7:00PM

Hyatt Regency Ballroom

Our traditional banquet will take place at the Hyatt and will feature a sumptuous Chinese Banquet, entertainment and dancing. Delegate registration includes this special evening and guest tickets may be purchased at the Registration Desk until Wednesday at 5:00PM.

Exhibitors

Exposition Dates June 6 – 8

(Wednesday morning to Friday at 13:00)

List of Exhibitors

Axcan Scandipharm Inc.	22 Inverness Center Parkway Birmingham, AL 35242 Tel: 205.991.8085 www.photofrin.com
Berlex Laboratories Inc.	PO Box 1000 Montville, NJ 07045-2470 Tel: 888.237.5392 www.berlex.com
biolitec Inc	515 Shaker Road East Longmeadow, MA 01028 Tel: 413.525.0600 www.biolitec.com
Charles River Laboratories	251 Ballardvale Street Wilmington, MA 01887 Tel: 978.658.6000 www.criver.com
Diomed Limited	Cambridge Research Park Ely Road, Cambridge UK Tel: 44.1223.729300
US:	23 Main Street, Suite 240 Andover, MA 01810 Tel: 1.978.475.7771 www.diomed-lasers.com
LumaCare™	Ci-Tec UK Ltd. 78 York Street London UK Fax: 44.207.724.7675
Optiscan	PO Box 1066 Mt. Waverley MDC Victoria 3149, Australia Tel: 61.3.9538.3333 www.optiscan.com
QLT Inc.	887 Great Northern Way Vancouver, BC, Canada V5T 4T5 Tel: 604.872.7881 www.qltinc.com

Congress Program • Wednesday, June 6

08:15 - 10:00	Official Introduction / Welcome Plenary	Regency Ballroom
08:15 - 08:25 08:25 - 08:45	Chair: Stephen Lam Welcome Opening Overview	Stephen Lam John Cairns Brian Schmidt Bernie Bressler
08:45 - 09:00 09:00 - 09:30 09:30 - 10:00	Establishment of the IPA Keynote Address AE Profio Memorial Lecture	Yoshihiro Hayata Stephen Bown Bruce Tromberg
10:00 - 10:30	Refreshment Break/Exhibits/Posters	Regency East
10:30 - 12:00	Plenary 2	Regency Ballroom
10:30 – 11:00 11:00 – 11:30 11:30 – 12:00	Regulatory Issues in Photodynamic Therapy Clinical Applications of PDT in Ophthalmology Gynecology	Richard Felten Neil Bressler Pius Wyss
12:00 - 13:30	Lunch Break/Exhibits/Posters	Regency East
13:30 - 15:00	Concurrent Symposia	
Plaza East	Cardiovascular (1 of 2) Chairs: Kathryn Woodburn & Robert Grove	
13:30 - 13:50	Intracoronary Photopoint™ Therapy for Restenosis	Ian Leitch
13:50 - 14:10	Antrin Photoangioplasty: Initial Human Experience and Results of a Phase I Trial as Adjuvant Therapy to Intracoronary Stent Implantation	T.M. Chou
	Abstract Chairs: Glenn M. Lamauraglia & York Hsiang	
14:10 - 14:20	The PhotoPoint Catheter Based System for the Treatment of Intimal Hyperplasia	Steve Rychnovsky
14:20 - 14:30	Photodynamic Inhibition of Intimal Hyperplasia in a Swine Arteriovenous Fistula Model	Beth Allison
14:30 - 14:40	Endovascular Photodynamic Therapy with Aminolaevulinic Acid Inhibits Balloon Induced Stenosis in Rat Illiac Arteries	Edward E.E. Gabeler
14:40 - 14:50	Arterial-Type Dependent Differences in the Aminolaevulininic- Acid-Induced Accumulation of Protoporhyrin IX Determine the Timing For Photodynamic Therapy	Edward E.E. Gabeler
14:50 - 15:00	Tips Plus PDT: A Pilot Study of Intimal Hyperplasia Prevention	P. Jack Hoopes
Plaza Centre	Light Sources and Delivery (1 of 2)	
13:30 - 13:45	<i>Chairs:</i> Willem Star & Dan Doiron Parametric Study of Short Excitation Pulses on PDT Effects In Vitro with PAD-S31: Measurements of Oxygen Consumption and Photobleaching	Satoko Kawauchi
13:45 - 14:00	A Novel Diode Laser System for Photodynamic Therapy	Eva Samsoee Andersen
14:00 - 14:15	The Effect Of Pulsed Laser In PDT In Vitro	J.Y. Chen
14:15 - 14:30	Dynamic Behaviour of Photosensitizers After Multiphoton Excitation	David T. Cramb

13:30 - 15:00	Concurrent Symposia	
Balmoral Room	Ophthalmology (1 of 2)	
	Chairs: Neil Bressler & Michael J. Potter	
13:30 - 13:55	Current Benefits of Ocular Photodynamic Therapy with Verteporfin to Manage Choroidal Neovascularization	Neil Bressler
13:55 - 14:20	On-Going Clinical Trials Evaluating Ocular Photodynamic Therapy with Verteporfin to Manage Choroidal Neovascularization	Michael J. Potter
14:20 - 14:35	Optimized Light Dosimetry in Photodynamic Therapy of Choroidal Neovascularization	Reginald Birngruber
14:35 - 14:50	Development of Verteporfin for the Treatment of Neovascular Age-Related Macular Degeneration (AMD): Lessons Learned	Julia G. Levy
14:50 – 15:05	Modulation of Photodynamic Therapy with Anti-Angiogenic Agents and Other Strategies	Reem Z. Renno
Plaza West	Thoracic	
	Chairs: Tetsuya Okunaka & Tom Sutedja	
13:30 - 13:45	The significance of fluorescence imaging in lung cancer. Autofluorescence Versus Added Photosensitizer	Tetsuya Okunaka
13:45 - 14:00	PDT with Nd-YAG Laser Therapy for Lung Cancer	J.S. McLaughan Jr.
14:00 - 14:10	Phase II Clinical Trial of PDT Using ME2906 and Diode Laser in the Treatment of Central Type Early Stage Lung Cancer in Japan	Kinya Furukawa
14:10 - 14:20	Intrathoracic Photodynamic Therapy on Pleural-Based Mesothelioma in Rats	Thorsten Krueger
14:20 - 14:30	10 Years Experience In Endoscopic Photodynamic Therapy (PDT) For Inoperable Cancer Of The Aero-Digestive Tract: The Lesson Learnt	Keyvan Moghissi
14:30 - 14:40	Has Bronchoscopic Photodynamic Therapy (PDT) Any Place In Bronchopulmonary Cancer Treatment?	Keyvan Moghissi
14:40 - 14:50	Photodynamic Therapy: An Integral Component of Multi-Modality Treatment for Bronchogenic Carcinoma	Patrick Ross
14:50 - 15:00	Clinical Experience with Safe 1000 Pentax Autofluorescence Bronchoscopy system in Early and Invasive Lung Cancer (First year experience)	Lamberto Toniolo
15:00 - 15:10	Autofluorescence-Guided Bronchoscopic Biopsy for Localization of Pre-Malignant Lesions and Cancer Foci within Bronchi	Mariusz Adamek
Regency Ballroom	Mechanisms of Action (1 of 3)	
	Chairs: Barbara W. Henderson & Nancy L. Oleinick	
13:30 - 13:50	Tissue Responses to PDT	Barbara W. Henderson
13:50 - 14:10	Mechanisms of PDT Cell Killing	Nancy L. Oleinick
14:10 - 14:22	A Mathematical Evaluation of Dose Dependent PpIX Fluorescence Kinetics In Vivo	HJCM Sterenborg
14:22 - 14:34	Tissue Temperature and Po ₂ Measurements Using Planar Optical Sensors In Vivo	Christoph Abels
14:34 - 14:46	Fas (CD95) Dependent Mechanisms of Cell Death Following DNA Damage in Human Nasopharyngeal Carcinoma Cells Using Hypocrellins	S.M. Ali
14:46 - 15:00	Analyses of Cellular Activity After PDT with AIPcS ₄	Renato Amaro Zângaro
15:00 - 15:30	Afternoon Break/Exhibits/Posters	Regency East

15:30 - 17:00	Concurrent Symposia	
Balmoral Room	Ophthalmology (2 of 2)	
	Chair: Michael J. Potter	
15:30 - 15:45	2. Generation of PDT-Lasers for the Treatment of Wet AMD	Stefan Spaniol
15:45 - 16:00	In Vitro Photodynamic Effects of ATX-S10(Na) and Mode of Cell Death on Vascular Endothelial Cells	Yuko Gohto
16:00 - 16:15	Subcellular Localization of Three Photosensitizers in Vascular Endothelial Cells	Akira Obana
16:15 - 16:30	Evaluation of New Photosensitizer MV6401 In a Series of Ophthalmic Neovascularization Models	Wendy J. Snyder
16:30 - 16:45	Improvements in Laser Technology for Ocular Photodynamic Therapy with Verteporfin	Hubert van den Bergh
Plaza East	ENT	
	Chairs: Phillipe Monnier & Colin Hopper	
15:30 - 15:40	Experimental Animal Study of 5-Aminolevulinic Acid Induced Photodynamic Therapy of Oral Cancer	B. Rings
15:40 - 15:50	Clinical Effects of Treating Recurrent Laryngeal Papillomatosis With Photodynamic Therapy Using m-THPC (FOSCAN)	Allan L. Abramson
15:50 – 16:00	Combined Fluorescence Diagnosis (Autofluorescence and 5-ALA Induced PPIX-Fluorescence) for the Detection and Demarcation of Oral Cancer	Christian Betz
16:00 - 16:10	The Use of Intravenous 5-Aminolaevulinic Acid in Photodynamic Therapy and in Fluorescence Imaging for Head and Neck Cancer and Precancer	Hiroaki Nakanishi
16:10 - 16:20	Targeting the Treatment Volume in Head and Neck Cancer	Graham D. Putnam
16:20 - 16:30	Raman Spectroscopy as a Means of Optical Biopsy in Normal and Cancerous Tissue of the Nasopharynx	David Lau
16:30 - 16:40	Photofrin-Mediated Photodynamic Therapy for Treatment of Early Stage Oral Cavity and Laryngeal Malignancies	Vanessa Gayl Schweitzer
16:40 - 16:50	Performance Characteristics of Laser-Induced Fluorescence Endoscope in Detection of Head and Neck Cancers	Vipa Boonkitticharoen
16:50 - 17:00	Fluorescence-Guided Biopsy in the Diagnosis of an Unknown Primary Cancer in Patients with Metastatic Cervical Lymph Nodes	Boonchu Kulapaditharom
17:00 - 17:10	Clinical Response to Photodynamic Therapy of Premalignant Lesions and Advanced Head and Neck Carcinomas	Maciej Misiolek
Regency Ballroom	Advances in PDT	
	Chairs: Heinrich Walt & Thierry Patrice	
15:30 - 15:50	Oral Aminolevulinic Acid for Systemic Breast Tumor Diagnosis	Heinrich Walt
15:50 - 16:10	Why is ALA-PDT Tumor-Selective?	Li-Wei Ma
16:10 - 16:20	Quantification and Specification of Postischemic Reperfusion Injury of Human Allogenic Kidney and Pancreas Transplants	Helmut P. Arbogast
16:20 - 16:40	Fluerescence Diagnosis with ALA-Induced Porphyrins (FDAP) in Dermatology	Clemens Fritsch
16:40 - 17:00	Optimizing the Esters of ALA – in Vitro and in Organ Culture	Hubert van den Bergh
17:00 - 17:12	Anti-Tumor Vascular Effects of Photodynamic Therapy MV6401	Dennis Dolmans

15:30 - 17:00	Concurrent Symposia	
Plaza West	Photosensitizers (1 of 3)	
	Chairs: Stan Brown & David Kessel	
15:30 – 15:50	Thiazine Photosensitizers	Stan Brown
15:50 - 16:10	Photosensitizers - A Review of the Options	David Kessel
16:10 - 16:20	Clinical Application of a New Surgical Strategy Using Photodynamic Therapy With Acridine Orange to Malignant Soft Tissue Tumors	Katsuyuki Kusuzaki
16:20 - 16:30	A Photodynamic Pathway to Apoptosis Induced by Polycyclic Aromatic Ketone (Hypericin) in Human Mucosal Cell Lines: Possible Relevance to Photodynamic Therapy	S.M. Ali
16:30 - 16:40	In Vitro and In Vivo Behaviour of BPD Related Compounds	Ron Boch
16:40 - 16:50	Hydroxy Diphenyl Chlorins and Bacteriochlorins – Versatile PDT Photosensitizers	R.W. Boyle
16:50 - 17:00	Enhanced Phototoxicity of Cationic Sulfonamide Derivatives of Benzochlorin and Porphycene With Nasopharyngeal Cancer Cells	C.K. Chang
Plaza Centre	Light Sources and Delivery (2 of 2)	
	Chairs: Tom Mang & David Cramb	
15:30 – 15:42	Model Calculation on the Efficiency of PDT by Pulsed Laser Application	Hans-Jochen Foth
15:42 - 15:54	Photodynamic Therapy Using Lowly Sinusoidal Modulated Thermal Red Light	Heinrich Kolbabek
15:54 - 16:06	Interstitial Photodynamic Therapy – Results from Treatments and Dosimetry Measurements	Stefan Andersson-Engel
16:06 - 16:18	Novel System for Integrated Interstitial Photodynamic Therapy, Dosimetry Measurements and Prediction of Treatment Outcome	Marcelo Soto Thompson
16:18 - 16:30	Reinforcement of Therapeutic Efficacies for Malignant Tumors Using Low Power Laser Preirradiation – Preliminary Report	Hideaki Shimatani
16:30 - 16:42	Local NPE6 Sensitized PDT for Inhibiting Intimal Hyperplasia in Experimental Balloon Injured Arteries	Tsuneyuki Nagae
19:00	Welcome Reception	Vancouver Aquarium

Buses depart from Melville Street entrance 18:45 – 19:10.

Congress Program • Thursday, June 7

07:00 - 08:15	Interest Group Breakfast (tickets required)	Plaza Ballroom
08:30 - 10:00	Plenary 3	Regency Ballroom
08:30 – 09:00 09:00 – 09:30 09:30 – 10:00	Chair: Harvey Lui Photosensitizers Optical Measurements for Quality Control During PDT Smart Dosimetry	Kevin Smith Steven Jacques Brian Wilson
10:00 - 10:30	Refreshment Break/Exhibits/Posters	Regency East
10:30 - 12:00	Plenary 4	Regency Ballroom
10:30 - 11:00 11:00 - 11:30 11:30 - 12:00 12:00 - 13:30	Chair: Harvey Lui Clinical Applications of PDT in Thoracic Medicine Clinical Applications of PDT in Dermatology Photodynamic Diagnosis and Photodynamic Therapy of Brain Tumors Lunch Break/Exhibits/Posters	Harubumi Kato Harvey Lui Herwig Kostron
12.00 - 13.30	Lunch Dreuk/Luntons/10sters	Regency East
12:00 - 13:00	Annual General Meeting	Regency Ballroom
13:30 - 15:00	Concurrent Symposia	
Plaza East	Dermatology (1 of 2) Non-Oncologic	
	Chairs: Robert Bissonnette & Rolf-Markus Szeimies	
13:30 - 13:50	PDT for the Treatment of Psoriasis	Robert Bissonnette
13:50 – 14:10	Photodynamic Therapy for Non-Oncologic Indications in Dermatology – Scerloderma, Sarcoidosis and HPV Related Dermatoses	Rolf-Markus Szeimies
14:10 - 14:20	Effect of Irradiance and Fluence on the Epidermal Phototoxicity of ALA-PDT in Hairless Mouse Skin	Robert Bissonnette
14:20 - 14:30	Quantitative Model Calculation of the Time Dependent Protoporphyrin Concentration in Normal Human Epidermis After Delivery of ALA By Passive Topical Application or Iontophoresis	Willem M. Star
14:30 - 14:40	Induction of Collagenases in Human Dermal Fibroblasts by 5-Aminolevulinic Acid and Light	Sigrid Karrer
14:40 - 14:50	In Vivo Evaluation of Human Melanin by Non-Invasive Raman Spectroscopy In Vitiligo	Iltefat Hamzavi
14:50 - 15:00	Experiences of Studies on PDT for Port Wine Stains	Jun-Heng Li
Regency Ballroom	Mechanisms of Action (2 of 3)	
	Chair: Victor Fingar	
13:30 - 13:40	Phthalocyanines: Structure Activity Relationship and Their Efficiency in the Photoinactivation of Microbial Pathogens	Gabrio Roncucci
13:40 - 13:50	Photodynamic Therapy with Hypericin Induces Vascular Damage and Apoptosis in the RIF-1 Mouse Tumour Model	Chen Bin
13:50 - 14:00	The Role of Complement in the Response of Tumors to Photodynamic Therapy	Ivana Cecic
14:00 - 14:10	Effect of Fluence Rate on Photodynamic Therapy (PDT) Efficacy and Tumor Oxygenation in Meta-Tetra (Hydroxyphenyl)Chlorin (MTHPC) Sensitized Tumor-Bearing Mice	Stephanie Coutier

13:30 - 15:00	Concurrent Symposia	
Regency Ballroom	Mechanisms of Action (2 of 3) continued	
14:10 - 14:20	Oxygen Levels During Continuous and Fractionated 5-Aminolaevulinic Acid (ALA) – Induced Photodynamic Therapy (PDT) of the Normal Rat Colon	Alison Curnow
14:20 - 14:30	The Role of Reperfusion Injury in 5-Aminolaevulinic Acid (ALA) – Induced Photodynamic Therapy (PDT) of the Normal Rat Colon	Alison Curnow
14:30 - 14:40	The Role of Neutrophils in ALA-PDT	Henriette S. de Brujin
14:40 - 14:50	Scavenger Receptor-Targeted Photodynamic Therapy of Murine Tumors In Vivo	Michael R. Hamblin
14:50 - 15:00	Elevation of HSP27 in PDT Induced Resistant Cancer Cells	John G. Hanlon
15:00 - 15:10	Rapid Impairment of Serca2 and Emptying of Endoplasmic Reticulum Calcium Stores During PDT-Induced Apoptosis is Not Prevented by BCL-2	David W.C. Hunt
Plaza Centre	Upper GI (1 of 2)	
	Chairs: Laurence Lovat & Bergein F. Overholt	
13:30 - 13:50	Should We Treat Barrett's Esophagus with PDT?	Laurence Lovat
13:50 - 14:07	Combined Photodynamic Therapy and Hyperbaric Oxygenation in Carcinoma of the Esophagus and the Esophago-Gastric Junction	Udo Anegg
14:07 - 14:24	Photodynamic Therapy in Early Oesophageal Cancer and Long Term Survival	Luigi Corti
14:24 – 14:41	Green Light Foscan Photodynamic Therapy (PDT) on 25 Oesophageal Intramucosal Cancers (IMC)	Jacques Etienne
14:41 – 15:01	PDT for Barrett's Dysplasia - Results of Multicenter and Long Term Studies	Bergein F. Overholt
Plaza West	Dosimetry (1 of 2)	
	Chairs: Haishan Zeng & Willem Star	
13:30 - 13:40	Correcting Relative Fluorescence Measurements for Optical-Property- Dependent Variations on the Optical Fiber Collection Efficiency	Paulo R. Bargo
13:40 - 13:50	Fluorescence Photobleaching During 5-aminolevulinic Acid-Induced Protoporphyrin IX Photodynamic Therapy of the Normal Rat Liver	W. Johannes de Wolf
13:50 - 14:00	Implicit Dosimetry: Relationship Between MTHPC Photobleaching and Cell Viability during In Vitro Photodynamic Therapy	Jonathan S. Dysart
14:00 - 14:10	New Techniques for Determination of In Vivo Photosensitizer Concentration Using Diffuse Fluorescence and Reflectance Spectroscopy	Robert A. Weersink
14:10 - 14:20	Multitasking Optical Fibre Probes for PDT Treatment Monitoring and Treatment Planning	Lothar Lilge
14:20 - 14:30	Effect Monitoring of Neoadjuvant Therapy of Rectal Cancer by Delayed Laser-Induced Endogenous Fluorescence Detection	Tim Handke
14:30 - 14:40	Inner-Filter Perturbations of Bacteriochlorin Fluorescence Photobleaching Measurements	Emma C.A. Pittard
14:40 - 14:50	A Two-Phase Illumination Scheme in ALA-PDT: Improved Clinical Outcome?	Peter D. Siersema
14:50 - 15:00	Investigation of Low Power Light and Light Fractionation for Enhancing PDT with mTHPC	Hidemitsu Tsutsui
15:00 - 15:10	Spectrally Resolved Reflectance Imaging: Tissue Characterization and Non-Invasive Monitoring of Photodynamic Treatment of Cancer	Sol Kimel
Balmoral Room	Urology/Gynecology (1 of 2)	
	Chair: Ron Moore	
13:30 - 13:50	Prostate Light Dosimetry	John Tulip
13:50 - 14:02	In Vivo Photodynamic Activity of Hypericin in Heterotopic Transitional Cell Carcinoma Bladder Tumors	Appolinary Kamuhabwa

Congress Program • Thursday, June 7

13:30 - 15:00	Concurrent Symposia	
Balmoral Room	Urology / Gynecology (1 of 2) continued	
14:02 – 14:14	Photodynamic Therapy (PDT) For Prostate Cancer: A Phase I Study in Locally Recurrent Disease After Radiotherapy	Timothy R. Nathan
14:14 - 14:26	Biodistribution of Hypericin in Orthotopic Transitional Cell Carcinoma Bladder Tumors: Implication for its Photodynamic Therapy	Appolinary Kamuhabwa
14:26 - 14:38	Phase I/II Clinical Test of Photodetection of Early Bladder Cancer with the Hexyl Ester of ALA	Patrice Jichlinski
14:38 - 14:50	Phase III Trials for Early Bladder Cancer with h-ALA	Bjorn Klem
15:00 - 15:30	Afternoon Break/Exhibits/Posters	Regency East
15:30 - 17:00	Concurrent Symposia	
Regency Ballroom	Optical Diagnosis (1 of 2)	
	Chairs: Calum MacAulay & Kinya Furukawa	
15:30 - 15:40	Bacteria-induced Fluorescence as a Disturbant Factor of Protoporphyrin IX - Fluorescence Diagnosis in the Oral Cavity	W. Zenk
15:40 - 15:50	Fluorescence Diagnostic of Malignant Oral Lesions After Local ALA-Application	W. Zenk
15:50 - 16:00	Localization of Small Non-Malignant and Malignant Lesions of the Colon by Laser-Induced Fluorescent Endoscopic (LIFE) Imaging	Wojciech Cebula
16:00 - 16:10	Fluorescence Detection of Bladder Carcinoma After Intravesical Instillation With Hypericin	Marie-Ange D'Hallewin
16:10 - 16:20	Simultaneous Prompt and Delayed Pulsed Laser-Induced Fluorimetry Quantifies Protoporphyrin IX Autofluorescence in Gastrointestinal Tumours	Tim Handke
16:20 - 16:30	Measurements of NIR Raman Spectra of Skin In Vivo Using a Rapid Fiber Optic Raman Spectroscopy System	Zhiwei Huang
16:30 - 16:40	Development and Clinical Application of High-Sensitive Fluorescence Detection System to Detect Cancer Lesion Using Fiber-Optic Endoscope	Yoshinobu Ohsaki
16:40 - 16:50	Fluorescence Visualization with Blue Light More Accurately Estimates the Histopathologic Margins of Basal Cell Carcinoma as Compared to Clinical Examination Alone	Harvey Lui
Plaza East	Biliary/Pancreatic/Lower GI	
	Chairs: Norman Marcon & Stephen Hahn	
15:30 - 15:50	PDT for Biliary Cancer	Marianne Ortner
15:50 - 16:10	Phase II Study of Intraperitoneal Photodynamic Therapy for Patients with Overtly Disseminated Intraperitoneal Malignancies	James M. Metz
16:10 - 16:22	Enhanced Mucosal Selectivity with m-THPC Using a Short Drug-Light Interval in the Rat Colon	Neil F. Jamieson
16:22 - 16:34	Photodynamic Therapy for Cholangiocarcinoma	Ian G. Renner
Balmoral Room	Neurosurgery	
	Chairs: Paul Muller & John Hill	
15:30 - 15:50	Clinical Trials in the Photodynamic Therapy of Primary Malignant Supratentorial Brain Tumors - Phase 2 and Phase 3 Studies	Paul Muller
15:50 - 16:00	Human U87 Glioma Response to Photodynamic Therapy Using Photofrin in Combination with Buthionine Sulfoxine (BSO)	Michael Chopp

15:30 - 17:00	Concurrent Symposia	
Balmoral Room	Neurosurgery continued	
16:00 - 16:10	Experimental Basis and Development of a Novel Intracranial Indwelling Balloon Light Applicator: Implications for Photodynamic Therapy in the Brain	Henry Hirschberg
16:10 - 16:20	High-Dose Laser Irradiation and 5-Aminolevulinic Acid (5-ALA) for Photodynamic Therapy of Glioblastomas	Albrecht Hochstetter
16:20 - 16:30	Intraoperative Photodynamic Diagnosis of Human Malignant and Benign Gliomas Using ALA Induced PpIX	Sadao Kaneko
16:30 - 16:40	PDT Induced Apoptosis in the 9L Rat Glioma Model	Lothar Lilge
16:40 - 16:50	Intraoperative Detection Of Malignant Brain Tumors By A Multispectral Fluorescence Guidance System	Victor Yang
Plaza West	Photosensitizers (2 of 3)	
	Chairs: Johan van Lier & Ravindra K. Pandey	
15:30 - 15:50	PDT Tumor Response in the Rat: Real-Time Monitoring by FDG-PET Imaging	Johan van Lier
15:50 - 16:10	HPPH-Aminophenyl DTPA [Gd(III)]-Conjugate: A Potential Tumor Diagnostic Agent for MRI and Photosensitizer for PDT	Ravindra K. Pandey
16:10 - 16:20	Novel Strategies for the Construction of Targeted PDT Agents Using Porphyrin Isothiocyanates	Oliver J. Clarke
16:20 - 16:30	The Application of Combinatorial Techniques in the Synthesis of Novel Photosensitizers	Kerry J. Elgie
16:30 - 16:40	Acetylene-Substituted Phthalocyanine Analogues As New Photosensitisers For Photodynamic Therapy	Rudiger Faust
16:40 - 16:50	Studies on Photodynamic Effects of Hydrophilic Photosensitizers, ATX-S10Na(II) and PAD-S31	Eiji Kohno
16:50 - 17:00	Improvement of PDT with Esterification of ALA: Influences on PPIX Accumulation, - Kinetics and - Phototoxicity	René C. Krieg
17:00 – 17:10	MV6401: A New Potent Photosensitizer for Photodynamic Therapy	Byron C. Robinson
Plaza Centre	Upper GI (2 of 2)	
	Chairs: Ken Wang & Herbert Wolfsen	
15:30 - 15:40	Photodynamic Therapy for Dysplastic Barrett's Oesophagus: Long Term Follow Up	Clive J. Kelty
15:40 - 15:50	Long-Term Survival After Photodynamic Therapy With Photofrin® For Early Gastric Cancer	Seishiro Mimura
15:50 – 16:00	Endoscopic Photodynamic Therapy (PDT) in Inoperable Oesophageal Cancer	Keyvan Moghissi
16:00 - 16:10	EMR-PDT for Gastric Cancer	Hirojuki Narahara
16:10 - 16:20	Photodynamic Therapy for Gastric Cancer	Yoshiro Nishiwaki
16:20 - 16:30	Optimization of Light Dosimetry During Photodynamic Therapy in the Esophagus: An Animal Study	Alexandre Radu
16:30 - 16:40	Laser Therapy of Colorectal Cancer: Is There a Role for Photodynamic Therapy?	Allan Weiss
16:40 - 16:50	P53 Mutations in Barrett's Esophagus Predict Poor Response to Photodynamic Therapy	Kenneth K. Wang
16:50 – 17:00	Photodynamic Therapy for Dysplastic Barrett's Esophagus and Mucosal Esophageal Adenocarcinoma	Herbert C. Wolfsen

Congress Program • Friday, June 8

08:30 - 10:00	Plenary 5	Regency Ballroom
	Chair: David McLean	
08:30 - 09:00	Mechanisms of Action of PDT – Cellular Mechanisms	David Kessel
09:00 - 09:30	Molecular Mechanisms Moving to Clinical Treatments	Charles Gomer
09:30 - 10:00	Cardiovascular PDT	Jean McEwan
10:00 - 10:30	Refreshment Break/Exhibits/Posters	Regency East
10:30 - 12:00	Plenary 6	Regency Ballroom
	Chair: David McLean	
10:30 - 11:00	PDT in Urology	Ronald Moore
11:00 - 11:30	Clinical Applications of PDT in Biliary and Pancreatic Diseases	Stephen Bown
11:30 – 12:00	Head and Neck Cancer	Merrill Biel
12:00 - 13:30	Lunch Break/Exhibits/Posters (lunch on own)	
12:00 - 13:15	Visudyne[™] Session (closed workshop)	Grouse
	Visudyne[™] Therapy for the Treatment of Wet Age-Related Macular Degeneration This session will be of interest to general ophthalmologists and those wishing to become familiarized with Visudyne [™] therapy for the treatment of wet age-related macular degeneration. Several clinical examples will be reviewed, including diagnosis by fluorescein angiogram and narration of a Visudyne [™] treatment.	Michael J. Potter
13:30 - 15:00	Concurrent Symposia	
Plaza East	Dermatology (2 of 2)	
	Chairs: Colin A. Morton & Allan Oseroff	
13:30 - 13:45	Indications for ALA-PDT in Cutaneous Malignancy	Colin A. Morton
13:45 - 14:00	Skin PDT: Outcomes, Treatment, Parameters and Metrics	Allan Oseroff
14:00 - 14:10	Photodynamic Therapy of Non-Melanoma Skin Cancers with Verteporfin and Red Light Tumor Response and Cosmetic Outcome	Lori Hobbs
14:10 - 14:20	Topical ALA-Mediated Photodynamic Therapy of Superficial Basal Cell Carcinoma Using Two Light Fractions With a Two Hour Interval	Willem M. Star
14:20 - 14:30	Kinetics of ALA-Induced Fluorescence of Human Skin Tumors In Vivo	Christoph Abels
14:30 - 14:40	Long-Time Follow-up after ALA-PDT of Superficial Basal Cell Carcinoma	Sigrid Karrer
14:40 - 14:50	Late Recurrence of Superficial Basal Cell Carcinoma Following ALA-PDT	Joyce A. Leman
14:50 – 15:00	Photofrin Photodynamic Therapy for Nevoid Basal Cell Carcinoma Syndrome	Sherry Shieh
15:00 - 15:10	Photodynamic Therapy for Chest Wall Progression from Breast Cancer is an Underutilized Treatment Modality	Thomas S. Mang
Plaza Centre	Infectious Diseases / Topical PDT (1 of 2)	
	Chairs: Tayyaba Hasan & Jun-Heng Li	
13:30 - 13:42	Photodynamic Therapy for Wound Infections	Michael R. Hamblin
13:42 - 13:54	Photodynamic Therapy of Oral Plaque Biofilms Formed In Vivo	Simon R. Wood
13:54 - 14:08	Photodynamic-Ultrasonic Therapy of Infected Wound	Vladimir P. Zharov
14:08 - 14:20	Oncological Applications of Photodynamic Therapy and Selective Laser Hyperthermia	Mark L. Gelfond

13:30 - 15:00	Concurrent Symposia	
Plaza Centre	Infectious Diseases / Topical PDT (1 of 2) continued	
14:20 - 14:32	Photodynamic Therapy and Topical Application of the New Photosensitizer MV6401	Stephanie F. Greene
14:32 – 14:44	ALA Penetration in Cutaneous Tumors: Measurement by Protoporpyrin IX Fluorescence and Correlation with Peripheral Benzodiazepine Receptor Expression	Janet Morgan
14:44 - 14:56	Photodynamic Therapy for MRSA	Nobuyuki Sakaniwa
Balmoral Room	Optical Diagnosis (2 of 2)	
	Chairs: Reinhold Baumgartner & Stefan Andersson-Engels	
13:30 - 13:50	5-ALA Assisted Imaging: News and Views	Reinhold Baumgartner
13:50 - 14:00	Endoscopic Detection of Dysplasia and Early Cancer in Barrett's Esophagus after Sensitization with 5-Aminolevulinic Acid	Thomas Stepinac
14:00 - 14:10	Barrett's Esophagus: High Detection Rate for Dysplasia and Early Adenocarcinoma by Combined Screening with 4-Quadrant Biopsies and Photodynamic Detection	Gian O. Dorta
14:10 - 14:20	The Use of An Optical Biopsy System in Barrett's Esophagus	Kenneth K. Wang
14:20 - 14:30	Quantitative Fluorescence Imaging	Annette McWilliams
14:30 - 14:40	Spectroscopic Diagnosis of Bladder Tumours Using Fluorescence Excitation-Emission Matrix	Wei Zheng
14:40 - 14:50	Detection of Superficial Extension of Central Type Lung Cancer by Photodynamic Diagnosis Assisted with Fluorescent Endoscopy	Takaaki Tsuchida
Plaza West	Photosensitizers (3 of 3)	
	Chairs: Clifford Leznoff & Kevin Smith	
13:30 - 13:39	Photodynamic Therapy (PDT) of a Gastric Cancer Cell Line Using Indocyanine Green (ICG) and a Low Power Laser Diode	Christopher Russell
13:39 - 13:48	Comparative Spectroscopic Studies of Photosensitizer – Model Membrane Interactions	Sarah Gerhardt
13:48 - 13:57	Uptake, and Localization of MTHPC and its 14C-Labeled Form in Normal and Tumoral Tissues of the Hamster Squamous Cell Carcinoma Model: A Comparative Study	Snezana Andrejevic-Blant
13:57 - 14:06	Clinical Evaluation of a Promising New Chlorin E6 Derivative – Photochlorin 1	E. Ph. Stranadko
14:06 - 14:15	Photodynamic Inactivation of a Human Glioblastoma Cell Line Using 5-Aminolevulinic Acid-Induced Protoporphyrin IX – Modulation by Iron and Differentiating Agents	Wolfgang Strauss
14:15 – 14:24	Evaluation of the Potential of Pyropheophoride-a Methyl Ester (MPPa) as a New Photosensitizer: A Comparison of its Photodynamic Efficacy and Yield of Oxygen Singlet with mTHPC	X. Sun
14:24 - 14:33	Photodynamic Therapy on Normal Rat Colon Using Tookad (WST09), a Bacteriochlorophyll Derivative	Josephine Woodhams
14:33 - 14:42	Symmetrical Phenothiazine Dyes as Potential Therapeutic Agents for Use in Photodynamic Therapy	Andrea L. Bell
14:42 – 14:51	Tookad – A Novel Palladium-Bacteriochlorophyll Sensitizer for Photodynamic Therapy: Synthesis and Characterization	Avigdor Scherz

13:30 - 15:00	Concurrent Symposia	
Plaza West	Photosensitizers (3 of 3) continued	
14:51 - 15:00	Photodynamic Therapy (PDT) of Rat C6 Glioma Xenografts With Pd-Bacteriopheophorbide (Tookad) Leads to Decreased Metastases and Increased Animal Cure Compared to Surgery	Smadar Schreiber
15:00 - 15:09	The Photochemical and Photophysical Mechanism Intiated by Excited PD-Bacteriochloropyll Derivative	Vakrat Yahel
Stanley Room	Urology/Gynecology (2 of 2)	
34th Floor	Chair: Dieter Jocham	
13:30 - 13:50	Long Term Results of PDT of Bladder Tumors	Dieter Jocham
13:50 - 14:02	Simultaneous Auto- and Xenofluorescence in the Diagnosis of Cervical Intraepithelial Neoplasia	Peter Hillemans
14:02 – 14:14	Application and Perspective of PDT and Chemotherapy to Stage Ib1 Cervical Cancer	Tetsuya Muroya
14:14 - 14:26	Enhanced Photodynamic Ablation of the Rabbit Endometrium Using 5-Aminolaelvulinic Acid and the Iron-Chelating Agent CP94	Dilip Visvanathan
14:26 - 14:38	Autofluorescence Analysis of Bladder Cancer Using Laser Confocal Microscopy and Spectroscopy	Malini Olivo
14:38 - 14:50	Macro-Microscopic Fluorescence Analysis of Bladder Cancer Using ALA Induced Fluorescence Cystoscopy and Laser Confocal Microscopy	Malini Olivo
14:50 - 15:00	Photodetection of Ovarian Cancer with h-ALA	Attila Major
15:00 - 15:30	Afternoon Break	Plaza
15.00 - 15.50	Ajternoon break	1 1020
15:30 - 17:00	Concurrent Symposia	
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15:30 - 17:00	Concurrent Symposia	
15:30 - 17:00	Concurrent Symposia Regulatory Issues & Outcomes Research in PDT	Teresa Goodell
15:30 – 17:00 Plaza Centre	Concurrent Symposia Regulatory Issues & Outcomes Research in PDT Chairs: Michael Unger & Eric Edell	
15:30 - 17:00 Plaza Centre 15:30 - 15:45	Concurrent Symposia Regulatory Issues & Outcomes Research in PDT Chairs: Michael Unger & Eric Edell Evaluating Clinical Outcomes of Palliative PDT	Teresa Goodell
15:30 - 17:00 Plaza Centre 15:30 - 15:45 15:45 - 16:00	Concurrent Symposia Regulatory Issues & Outcomes Research in PDT Chairs: Michael Unger & Eric Edell Evaluating Clinical Outcomes of Palliative PDT Quality of Life as an Outcome of PDT for Barrett's Esophagus	Teresa Goodell Kathy B. Wright
15:30 - 17:00 Plaza Centre 15:30 - 15:45 15:45 - 16:00 16:00 - 16:15	Concurrent Symposia Regulatory Issues & Outcomes Research in PDT Chairs: Michael Unger & Eric Edell Evaluating Clinical Outcomes of Palliative PDT Quality of Life as an Outcome of PDT for Barrett's Esophagus Regulatory Issues Facing PDT Investigations Selective Porphyrin Synthesis in Chemically Induced Skin Tumours:	Teresa Goodell Kathy B. Wright John Hill
15:30 - 17:00 Plaza Centre 15:30 - 15:45 15:45 - 16:00 16:00 - 16:15 16:15 - 16:30	Concurrent Symposia Regulatory Issues & Outcomes Research in PDT Chairs: Michael Unger & Eric Edell Evaluating Clinical Outcomes of Palliative PDT Quality of Life as an Outcome of PDT for Barrett's Esophagus Regulatory Issues Facing PDT Investigations Selective Porphyrin Synthesis in Chemically Induced Skin Tumours: Implications in Cutaneous Photosensitisation	Teresa Goodell Kathy B. Wright John Hill Alcira Batlle
15:30 - 17:00 Plaza Centre 15:30 - 15:45 15:45 - 16:00 16:00 - 16:15 16:15 - 16:30 16:30 - 16:40	Concurrent Symposia Regulatory Issues & Outcomes Research in PDT Chairs: Michael Unger & Eric Edell Evaluating Clinical Outcomes of Palliative PDT Quality of Life as an Outcome of PDT for Barrett's Esophagus Regulatory Issues Facing PDT Investigations Selective Porphyrin Synthesis in Chemically Induced Skin Tumours: Implications in Cutaneous Photosensitisation Our Experience in PDT with Photosensitzers of Different Groups	Teresa Goodell Kathy B. Wright John Hill Alcira Batlle
15:30 - 17:00 Plaza Centre 15:30 - 15:45 15:45 - 16:00 16:00 - 16:15 16:15 - 16:30 16:30 - 16:40	Concurrent Symposia Regulatory Issues & Outcomes Research in PDT Chairs: Michael Unger & Eric Edell Evaluating Clinical Outcomes of Palliative PDT Quality of Life as an Outcome of PDT for Barrett's Esophagus Regulatory Issues Facing PDT Investigations Selective Porphyrin Synthesis in Chemically Induced Skin Tumours: Implications in Cutaneous Photosensitisation Our Experience in PDT with Photosensitzers of Different Groups Topical PDT (2 of 2)	Teresa Goodell Kathy B. Wright John Hill Alcira Batlle
15:30 - 17:00 Plaza Centre 15:30 - 15:45 15:45 - 16:00 16:00 - 16:15 16:15 - 16:30 16:30 - 16:40 Plaza East	Concurrent Symposia Regulatory Issues & Outcomes Research in PDT Chairs: Michael Unger & Eric Edell Evaluating Clinical Outcomes of Palliative PDT Quality of Life as an Outcome of PDT for Barrett's Esophagus Regulatory Issues Facing PDT Investigations Selective Porphyrin Synthesis in Chemically Induced Skin Tumours: Implications in Cutaneous Photosensitisation Our Experience in PDT with Photosensitzers of Different Groups Topical PDT (2 of 2) Chairs: Roy Pottier & Qian Peng Topical Photodynamic Therapy in Dermatology:	Teresa Goodell Kathy B. Wright John Hill Alcira Batlle Evgueni Ph. Stranadko
15:30 - 17:00 Plaza Centre 15:30 - 15:45 15:45 - 16:00 16:00 - 16:15 16:15 - 16:30 16:30 - 16:40 Plaza East 15:30 - 15:50	 Concurrent Symposia Regulatory Issues & Outcomes Research in PDT Chairs: Michael Unger & Eric Edell Evaluating Clinical Outcomes of Palliative PDT Quality of Life as an Outcome of PDT for Barrett's Esophagus Regulatory Issues Facing PDT Investigations Selective Porphyrin Synthesis in Chemically Induced Skin Tumours: Implications in Cutaneous Photosensitisation Our Experience in PDT with Photosensitzers of Different Groups Chairs: Roy Pottier & Qian Peng Topical Photodynamic Therapy in Dermatology: The How's, The Why's and the Why Not's 	Teresa Goodell Kathy B. Wright John Hill Alcira Batlle Evgueni Ph. Stranadko
15:30 - 17:00 Plaza Centre 15:30 - 15:45 15:45 - 16:00 16:00 - 16:15 16:15 - 16:30 16:30 - 16:40 Plaza East 15:30 - 15:50 15:50 - 16:10	 Concurrent Symposia Regulatory Issues & Outcomes Research in PDT Chairs: Michael Unger & Eric Edell Evaluating Clinical Outcomes of Palliative PDT Quality of Life as an Outcome of PDT for Barrett's Esophagus Regulatory Issues Facing PDT Investigations Selective Porphyrin Synthesis in Chemically Induced Skin Tumours: Implications in Cutaneous Photosensitisation Our Experience in PDT with Photosensitzers of Different Groups Chairs: Roy Pottier & Qian Peng Topical Photodynamic Therapy in Dermatology: The How's, The Why's and the Why Not's PDT of BCC & AK with Metvix 	Teresa Goodell Kathy B. Wright John Hill Alcira Batlle Evgueni Ph. Stranadko Alexis Sidoroff Trond Warloe
15:30 - 17:00 Plaza Centre 15:30 - 15:45 15:45 - 16:00 16:00 - 16:15 16:15 - 16:30 16:30 - 16:40 Plaza East 15:30 - 15:50 15:50 - 16:10 16:10 - 16:20	 Concurrent Symposia Regulatory Issues & Outcomes Research in PDT Chairs: Michael Unger & Eric Edell Evaluating Clinical Outcomes of Palliative PDT Quality of Life as an Outcome of PDT for Barrett's Esophagus Regulatory Issues Facing PDT Investigations Selective Porphyrin Synthesis in Chemically Induced Skin Tumours: Implications in Cutaneous Photosensitisation Our Experience in PDT with Photosensitzers of Different Groups Topical PDT (2 of 2) Chairs: Roy Pottier & Qian Peng Topical Photodynamic Therapy in Dermatology: The How's, The Why's and the Why Not's PDT of BCC & AK with Metvix Photodynamic Diagnosis, Therapy and Real-Time Treatment Control Superficial Temperature and Perfusion Measurements in Connection 	Teresa Goodell Kathy B. Wright John Hill Alcira Batlle Evgueni Ph. Stranadko Alexis Sidoroff Trond Warloe Arie Orenstein

15:30 - 17:00	Concurrent Symposia	
Plaza East	Topical PDT (2 of 2) continued	
16:50 – 17:00	A Study on the Penetration of 5-Aminolaevulinic Acid and its Methyl and Hexyl Esters Through Normal and UVB Treated Hairless Mouse Skin	David I. Vernon
Stanley Room	Immunomodulation	
34th Floor	Chairs: Sandra Gollnick & Mladen Korbelik	
15:30 - 15:50	Generation of Anti-Tumor Vaccines Using PDT	Sandra Gollnick
15:50 - 16:10	Engagement of PDT-Induced Host Immune Defence Mechanisms in the Eradication of Cancerous Lesions	Mladen Korbelik
16:10 - 16:20	Increased Cytoxotic Effects of Photodynamic Therapy in IL-6 Gene Transfected Cells via Enhanced Apoptosis	Shuji Ichinose
16:20 - 16:30	Topical ALA-PDT Modifies Cytokine Levels in Serum of Patients with Skin Tumours	Mariusz Adamek
16:30 – 16:40	Influence of Host Immunity in Photodynamic Therapy	Gianfranco Canti
16:40 - 16:50	Effect of PDT With QLT0074 on Cytokine Release From Human Endothelial Cells	Anthea Tench Stammers
16:50 – 17:00	Potentiation of Therapeutic Efficacy of PDT by In Vivo Administration of Cyclophosphamide and Limphokine Activated Killer Cells on Rat Ascites Tumor Cells	Dima F. Vasile
17:00 – 17:10	Pre-Clinical Trials of h-ALA for PDT of Rheumatoid Arthritis	Norbert Lange
Balmoral Room	Mechanisms of Action (3 of 3)	
	Chairs: Barbara Henderson & Nancy Oleinick	
15:30 – 15:40	Spectral Characteristics, Photocytotoxicity, Intracellular Localization of a New Chlorophyll-Derived Photosensitizer of Pyropheophoride-a Methyl Ester (MPPa) in Human Lung Carcinoma Cancer Cell and its Induced Apoptosis	Albert W.N. Leung
15:40 - 15:50	Combination Therapy of a Cultivated Leukemia Cell with Photoradiation and Sonolysis	Norio Miyoshi
15:50 - 16:00	Carrier Protein of Water-Soluble Tumor Localizing Porphyrin-Atn-2, ATX-S10 (Na)	Susumu Nakajima
16:00 - 16:10	Oxygen Dynamics During PDT: Comparison of In Vivo and In Vitro Effects for Vascular Versus Cellular Targeting Sensitizers	Brian W. Pogue
16:10 – 16:20	Involvement of the Tumour Microcirculation in Aminolaevulinic Acid (ALA) Based Photodynamic Therapy (PDT) In Vivo	F. Ruth Potter
16:20 - 16:30	Influence of Oxygen Level on Aminulevulinic Acid (ALA) Mediated Protoporphyrin IX (PPIX) Accumulation and Photodynamic Damage	Joachim Rauch
16:30 - 16:40	Confocal Laser Scanning Microscopy to Investigate Dose Dependent Cell Death Mechanisms During AlPCS4 - PDT in Adherent Cells	Angelika Ruck
16:40 - 16:50	Subcellular Time-Resolved Microspectrofluorometry of ALA-PPIX and mTHPC Using Short Pulsed Diode Lasers	Angelika Ruck
16:50 - 17:00	Influence of Steroid Hormones and Steroid Hormone Antagonists On Photodynamic Inactivation In Vitro	Reinhard Sailer
17:00 - 17:10	Mechanism Underlying the Potentiating Effect of a Transient Thrombocytopenia on Photofrin-Based Photodynamic Therapy	Wim Sluiter
17:10 – 17:20	Endogenous Protoporphyrin IX (PPIX) Production in Rat Pancreatoma Cells from δ-Aminolaevulinic Acid (ALA) and N-Pentyl ALA Ester	Caroline J. Whitaker
17:20 - 17:30	Real-Time Image Analysis of PDT Cell-Death In Vitro With a Cooled Color CCD Camera Under a Confocal Laser Video-Microscope	Takato O. Yoshida

15:30 - 17:00	Concurrent Symposia	
Plaza West	Dosimetry (2 of 2)	
	Chair: Michael Patterson	
15:30 - 15:50	Progress in PDT Dosimetry	Michael Patterson
15:50 - 16:00	Detection of PDT-Generated Singlet Oxygen in In Vitro and In Vivo by Near-Infrared Luminescence	Brian C. Wilson
16:00 - 16:10	Monitoring Photoproduct Formation and Photobleaching by Fluorescence Spectroscopy Improves PDT Dosimetry	Haishan Zeng
16:10 - 16:20	Long-Term Stability of Silicon Photodiode Calibration for In Vivo Dosimetry in Photodynamic Therapy	Timothy C. Zhu
16:20 - 16:30	The Effect of PDT on In Vivo Oxygen Saturation and Microvascular Circulation	Josephine Woodhams
16:30 - 16:40	Observation of the Binding State Between Human Serum Albumin and Mono-L-Aspartyl Chlorin E6 Using the Surface Plasmon Resonance Phenomenon	Taichiro Ishizumi
16:40 - 16:50	Measuring Blood-Flow Changes of Tumor Implanted in Mice by Noninvasive Optical Multichannel Oxygen Monitor	Junichi Nitadori
19:00	Banquet	Regency Ballroom

Congress Program • Saturday, June 9

08:30 - 10:00	Plenary 7	Regency Ballroom
	Chair: Harvey Lui	
08:30 - 09:00	Upper GI PDT	Helmut Messman
09:00 - 09:30	Immune Modulation	Craig Elmets
09:30 - 10:00	Refreshment Break	
10:00 - 12:00	Plenary 8	Regency Ballroom
10:00 - 12:00	Plenary 8 Chairs: Hubert van den Bergh & Steven Jacques	Regency Ballroom

Poster viewing will be available Wednesday through Friday in the Regency Foyer.

Cardiovascular

1	Sustained Benefit During 2 Year Follow Up in a Pilot Study of Adjuvant Photodynamic Therapy and Angioplasty for Restenosis of the Superficial Femoral Artery	Richard Mansfield
2	Effects of Photodynamic Therapy on Elastic Fiber Networks in the Atheroma of Rabbits Using NPe6 and a Long Wavelength Diode Laser	Junichi Hayashi
3	Photodynamic Therapy of PIG Coronary Arteries Induces Apoptosis of Endothelial and Vascular Smooth Muscle Cells	Richard Mansfield
De	rmatology	
4	The Problems and Complications of Photodynamic Therapy in the Treatment of Skin Neoplasms	Edward Stanowski
5	Cutaneous Consequences of Gastroesophageal Photodynamic Therapy	Christine S. Ng
6	Photodynamic Therapy Using Topical Methyl-5-Aminolevulinate (Metvix) is as Efficacious as Cryotherapy in Actinic Keratosis, but with Superior Cosmetic Results and High Patient Satisfaction. A Prospective, Randomized Study	Rolf-Markus Szeimies
7	Topical Photodynamic Therapy: The Nurses Perspective	Michael Dean
8	Malignant Melanoma: A New Type of Sensitizers for its PDT and a New Method for Early Diagnostics	Dieter Leopold
9	Combination Effect of Photodynamic and Sonodynamic Therapy on Experimental Skin Squamous Cell Carcinoma in C3H/Hen Mice	Norio Miyoshi
EN	Γ	
10	Pharmacokinetics of Protoporphyrin IX in Human Blood and Skin Following Oral Rinsing of 5-Aminolevulinic Acid	Christian S. Betz
Gy	necology	
12	Photodynamic Therapy of Vulvar Dystrophy with 5-ALA	Marija Hillemanns
13	Angiosarcoma After Radiotherapy of Breast Cancer PDT as a Therapeutic Option for this Unusual Tumor	Peter Urban
Im	munomodulation	
14	Impact of PDT with QLT0074 on Murine Models of Cutaneous Inflammation	Leslie G. Ratkay
15	Adoptive Immunotherapy with Genetically Altered Natural Killer Cell Line Increases the Cure Rate of PDT-Treated Tumors	Jinghai Sun
Lig	ht Sources and Delivery	
16	In Vivo Determination of Tumor Optical Parameters in Esophageal Carcinoma	Udo Anegg
17	Cylindrical Diffusing Tips for PDT Light Delivery Based on Type 2 Bragg Grating	Lothar Lilge
18	Laser Devices for PDT with Chlorin E6 Derivative	Evgueni Ph. Stranadko

Posters

Lower GI

19	Tumor Reduction Before Photodynamic Therapy: New Technique of Endoscopic Treatment for Advanced Rectal Cancer	Tetsuya Nakamura
20	Outcome of Patients with Cholangiocarcinoma After Local Treatment with Photodynamic Therapy	Thomas Nesbigall
21	Photodynamic Effect for Chemically Induced Hepatocullular Carcinoma in a Rat Model	Masako Nishiwaki
22	Selective Accumulation of Protoporphyrin IX in Chemically Induced Hepatocellular Carcinoma in a Rat Model	Mamiko Otake
Me	chanisms of Action	
23	Threshold for PDT Induced Cell Destruction Measured in Human Cancer Cell Embedded in the Hen's Egg Model	Hans-Jochen Foth
24	Chlorine e6 Induced Photosensitized Increase of Cells Passive K+- Permeability	Grigor V. Gyulkhandanyan
25	Detection of 1.27um Emission from Singlet Oxygen in Photodynamic Therapy	Toru Hirano
26	Anti-Invasion Effects of Low Dose PDT With Photofrin on U251n Human Glioma Cells and 9L-Gliosarcoma Cells	Feng Jiang
27	Clinical and Experimental Evidence of bcl-2 Involvement in Response to Photodynamic Therapy	Michael I. Koukourakis
28	Hypoxia Inducible Factor (HIF-1a and HIF-2a) Expression in Early Esophageal Cancer and Response to Photodynamic Therapy and Radiotherapy	Michael I. Koukourakis
29	Generation of Reactive Oxygen Species by Tookad Depends on the Sensitizer Microenvironment	Brian W. McIlroy
30	Aminolaevulinic Acid Hexyl Ester (Alahe) Based Photodynamic Therapy (PDT) – The Role of the Tumour Microcirculation In Vivo	F. Ruth Potter
31	A Microfluorescence Technique for the Study of Intracellular PpIX Photobleaching	Caroline Sudworth
32	Role of the Extracellular Signal-Regulated Kinases in the Sensitivity of Human Cells to Photofrin-Mediated PDT	Zhimin Tong
33	Photodynamic Therapy (PDT) of Human Tumor Xenografts Lacking Caspase-3	Cecilia M. Whitacre
34	Action of δ-Aminolevulinic Acid and δ-Aminolevulinic Acid Methyl Ester on Human Cancer Cells	Christina M.N. Yow
35	Spectroscopic Properties and Time Evolution of PPIX in a Mammary Adenocarcinoma M2 after δ - ALA Administration. An In Vivo Fluorescence Study	Patricia del V. Repossi
Ne	urosurgery	
36	Photodynamic Therapy With Photofrin Plus BSO Reduces Invasiveness of U87 Human Glioma Cells	Feng Jiang
37	Photodynamic Therapy Of Recurrent Intracranial Metastatic Cancer: Report Of 8 Cases	Paul Muller
Ор	hthalmology	
38	Prevention of Posterior Capsule Opacification by Photodynamic Therapy with Localized Verteporfin for Injection (Benzoporphyrin Derivative Monoacid) in a Euthanized Rabbit Surgical Model	Howard E. Meadows
Op	tical Diagnosis	
39	Fluorescence diagnosis of Papillomas and Early Stage Cancer of Larynx and Bronchus: Combination of Autofluorescence and 5-ALA Induced Fluorescence Imaging with In Situ Spectrophotometry	Victor Sokolov
40	Technical Note on Intraoperative MTHPC-Mediated Fluorescence Diagnosis of Malignant Brain Tumors	Andreas Zimmermann
41	Influence of the PH Value on the Absorption and Fluorescence Properties of MTHPC	Andreas Zimmermann

Photosensitizers

42	Anticancer Effect of Photodynamic Therapy Using 9-Hydroxypheophorbide-a and 660nm Diode Laser on Squamous Cell Carcinoma Cell Line	Phil-Sang Chung
43	Aggregation of Water-Soluble Diaminoacid Protoporphyrin Derivatives - PP(AA)2Arg2	Mariusz Czuba
44	Building An Arsenal of Tumoricidal Porphycene Photosensitizers From a Single Precursor	Wilson Sum Wai Lam
45	Synthesis and Modifications of Benzochlorin Photosensitizer for PDT	Yan Kin Lau
46	Veterinary Clinical Application of PDT with PAD-S31 (New Photo Sensitizer)	Saburo Minami
47	Photosan - A Porphyrin Sensitizer up to Date	Hans Mueller von der Haegen
48	Second Generation Photosensitizer ATX-S10 for Photodynamic Therapy	Yoshinori Nakae
49	Development of New PDT-Drugs Based on Nonsteroidal Antiprogestins of Marine Origin	Mario Wurglics
50	Optimal Tissue Retention Property of New Photosensitizer: PAD S31	Yoshiharu Okamoto
51	Determination of the Peak Absorption Wavelength and Disaggregation Kinetics of Tookad In Vivo Using Dynamic, Spatially-Resolved Diffuse Reflectance Spectroscopy in a Rabbit Model	Robert A Weersink
52	Determination of Singlet Oxygen Quantum Yield of Diaminoacid Protopophyrin Derivatives -PP(AA)2Arg2	M. Shu Ye
Th	oracic	
53	Md-YAG Laser and PDT in Paliative Therapy in Advanced Bronchial Carcinoma	Emil G. Benov
54	Does Combined Photodynamic Therapy and Hyperbaric Oxygenation Influence the Acute Relief of Poststenotic Symptoms in Lung Cancer?	Birgit Fell
Toj	pical PDT	
55	No Systemic Contribution to New In vivo Protoporphyrin IX Fluorescence Following Photobleaching	Angélique van den Heuvel
Up	per GI	
56	Does New Photosensitizer Improve Photodynamic Therapy in Advanced Esophageal Carcinoma	Birgit Fell
57	In Vivo Light Dosimetry During Photodynamic Therapy of Barrett's Oesophagus With 5-Aminolevulinic Acid	Robert L.P. van Veen
Ur	ology	
	Photodynamic "Brachy" Therapy	C. Alexander Mosse