

THE FACULTY

Donald Abrams, MD*. Chief, Hematology-Oncology, San Francisco General Hospital; Professor of Clinical Medicine, University of California San Francisco

Brian Becker, MD*. Southern Arizona Integrative Therapies, Tucson, AZ

Yehuda Baruch, MD. Director of Abarbanel Mental Health Center; Chair, Health Ministry's Advisory board for Medical Cannabis, Israel

Al Byrne, Lcdr, USN (ret.)*. COO and Co-founder, Patients Out of Time, Howardsville, VA

Gregory T. Carter, MD. Clinical Professor, Co-Director of the MDA/ALS Center, University of Washington, Seattle, WA

William Courtney, MD. Clinical Cannabis Physician in Caspar, Willits, Redway & Eureka, CA; VP of Association Luxembourgeoise des Methodes Preventive, Ettelbruck, Luxembourg

Vincenzo Di Marzo, ChemD, PhD. Research Director, Institute of Biomolecular Chemistry, Consiglio Nazionale delle Ricerche, Via Campi Flegrei 34, Comprensorio Olivetti, Italy

Melanie Dreher, RN, PhD, FAAN. John L. and Helen Kellogg Dean School of Nursing, Rush University, Chicago, IL

Christopher G. Fichtner, MD. Clinical Professor, Department of Psychiatry, Southern Illinois University School of Medicine, Springfield, IL; State Mental Health Director for Illinois (2003–2005)

Gregory Gerdeman, PhD. Assistant Professor, Biology/Natural Sciences, Eckerd College, St. Petersburg, FL

Matthew Hill, PhD. Assistant Professor, Departments of Cell Biology & Anatomy and Psychiatry, Faculty of Medicine, The Hotchkiss Brain Institute, University of Calgary, Calgary, AB Canada

Andrea G. Hohmann, PhD. Linda and Jack Gill Chair of Neuroscience and Professor, Department of Psychological & Brain Sciences, Indiana University, Bloomington, IN

Julie Holland, MD. Clinical Assistant Professor of Psychiatry, New York University School of Medicine, New York

Cathy Jordan. ALS patient (25 year survivor), Tampa Bay, FL

Melanie Kelly, PhD. Professor, Pharmacology and Ophthalmology, Dalhousie University, Halifax, Nova Scotia, Canada

Mary S. Koithan, PhD, RN-C*. Associate Professor, University of Arizona, College of Nursing, Tucson, AZ

Bryan Krumm, MSN, CNP. Psychiatric Nurse Practitioner at Sage Neuroscience Center, Albuquerque, NM

Martin A. Lee. Author and Director of Project CBD, Healdsburg, CA

Mary Lynn Mathre, RN, MSN, CARN*. President and Co-founder, Patients Out of Time, Addictions and Cannabis Consultant, Howardsville, VA

John McPartland, MS, DO. Clinical Assistant Professor, Department of Family Medicine, University of Vermont, Middlebury, VT

Robert Melamede, PhD. President, Colorado Cannabis Science, Inc., Colorado Springs, CO

Elvy Musikka. Federal cannabis patient, Eugene, OR

Vincent Palazzotto. Executive Director, Medical Marijuana Assistance Program of America (MMAA), Denver, CO

Amanda Reiman, PhD, MSW. Director of Research and Patient Services, Berkeley Patients Group, Berkeley, CA

Jackie Rickert. Ehlers Danlos Syndrome patient, Co-founder, Is My Medicine Legal Yet (IMMLY), Mondovi, WI

Cristina Sanchez, PhD. Department of Biochemistry and Molecular Biology I, Complutense University, Madrid, Spain

Sue Sisley, MD. Clinical Faculty, Internal Medicine/Psychiatry, St. Joseph's Hospital & Medical Center; Assistant Professor, Arizona Telemedicine Program, University of Arizona College of Medicine

Gary Storck. Cannabis patient; Co-founder, Is My Medicine Legal Yet (IMMLY), Madison, WI

Mark A. Ware, MD, MRCP, MSc. Assistant Professor of Family Medicine & Anesthesia, McGill University; Director of Clinical Research, Alan Edwards Pain Management Unit, McGill University Health Centre; Executive Director, Canadian Consortium for the Investigation of Cannabinoids, Montreal, Canada

Andrew Weil, MD. Founder and Program Director, Arizona Center for Integrative Medicine, University of Arizona, Tucson, AZ

Gary L. Wenk, PhD. Professor, Department of Psychology & Neuroscience & Molecular, Virology, Immunology and Medical Genetics, Ohio State University, Columbus, OH,

Clint Werner. Author, *Marijuana Gateway to Health*, San Francisco, CA

*Planning Committee

Patients Out of Time
1472 Fish Pond Road
Howardsville, VA 24562

The Seventh National Clinical Conference on Cannabis Therapeutics

SPONSORED BY

Patients Out of Time

University of California,
San Francisco School of Medicine

University of Arizona
College of Nursing

IN ASSOCIATION WITH

Arizona Center for Integrative
Medicine, College of Medicine,
University of Arizona

American Cannabis Nurses Association

American Academy of
Cannabinoid Medicine

Mothers Against Misuse and Abuse

The Endocannabinoid System: Clinical Implications for Health Care

APRIL 26–28, 2012

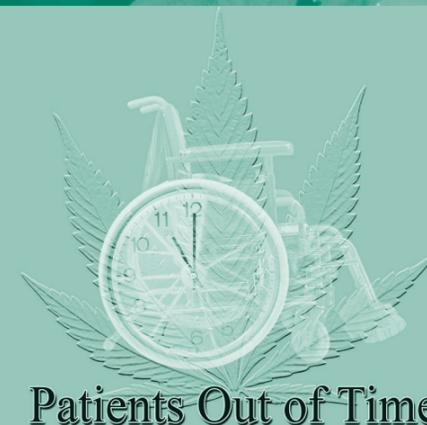
Loews Ventana Canyon • Tucson, Arizona

The purpose of this conference series is to educate health care professionals and the U.S. public about therapeutic cannabis. In 2000, Patients Out of Time began a long-term series of biennial conferences and this is the seventh in the series. The need for this education is universal to all U.S. states. There has been no formal education concerning therapeutic cannabis applications since the late 1930s. To fill this void, **Patients Out of Time** has identified the current world-wide cannabis research being conducted and invited the scientists and health care clinicians involved to present their findings at an accredited educational forum. This seventh conference is focusing on the emerging science of the endogenous cannabinoid system (ECS) to help clinicians understand how and why cannabis is safe and effective for such a wide variety of health problems. Leading health care organizations in the United States such as the *American Public Health Association*, the *American Nurses Association*, the *American College of Physicians*, and the *American Medical Association* have called for more research on medicinal cannabis and the education of their members based on evidence-based practice regarding therapeutic cannabis. Patients Out of Time is proud and honored to be the provider of such education in the U.S.

EDUCATIONAL OBJECTIVES

At the end of this educational activity, participants should be able to:

- ▶ Summarize the overall role of the endocannabinoid system
- ▶ Describe the role of the ECS with neuropathic pain
- ▶ Describe the role of the ECS in the regulation of stress, mood and anxiety
- ▶ Describe the role of the ECS in addiction
- ▶ Identify measures that can enhance the ECS
- ▶ List at least 3 symptoms of post traumatic stress for which cannabis has been found to be effective
- ▶ List at least 2 nutritional elements found in raw cannabis leaves
- ▶ Differentiate between two studied cannabinoids—THC and CBD
- ▶ Describe at least 3 potential clinical applications of phytocannabinoids based on animal research
- ▶ Assess the clinical implications for your practice related to the emerging science of the ECS
- ▶ Question the placement of cannabis in Schedule I of the CSA.



Patients Out of Time

Agenda

THURSDAY, APRIL 26

7:00 pm Reception and Registration

FRIDAY, APRIL 27

8:00 Welcome and Opening remarks • *Al Byrne (POT), Donald Abrams, MD (UCSF)*

8:20 Cannabis: Why is it Forbidden? • *Mary Lynn Mathre, RN, MSN, Jacki Rickert (Ehlers Danlos, patient)*

8:50 Overview of the Endocannabinoid System • *Vincenzo DiMarzo, PhD*

9:30 Care and Feeding of the Endocannabinoid System • *John McPartland, DO*

10:00 Break

10:20 The ECS and Neuropathic Pain • *Andrea Hohmann, PhD*

10:50 Cannabinoids and the Eye • *Melanie Kelly, PhD*

11:20 The Use of Cannabis with Glaucoma • *Gary Storck (glaucoma patient), Elvy Musikka (federal medical cannabis patient)*

11:40 Beyond THC: Bringing Back CBD • *Martin A. Lee*

12:00 **Lunch** with speaker
Raw Cannabis: A Dietary Essential Optimized Through Individualized Phylogenetics (30 minutes) • *William Courtney, MD*

1:30 The Role of the Endocannabinoid System in the Regulation of Stress, Mood and Anxiety • *Matthew Hill, PhD*

2:00 The ECS and Addiction • *Greg Gerdeman, PhD*

2:30 Cannabis as an Exit Drug • *Amanda Reiman, PhD, MSW*

2:50 Break

3:10 Perils and Promising Possibilities with Cannabis and Schizophrenia • *Christopher Fichtner, MD*

3:30 Research and Education on Cannabinoids: Update from Canada • *Mark Ware, MD*

4:00 Q & A

4:30 Day end

6:00 **Patients Out of Time Benefit Dinner**
Music by Greta Gaines, live auction, and a guest appearance by Gigi Ganjay

SATURDAY, APRIL 28

8:00 Opening remarks • *Al Byrne, Brian Becker, MD (Arizona Center for Integrative Medicine), Mary Koithan, PhD, RN (University of Arizona College of Nursing)*

8:30 Cannabinoids and Cancer Care • *Donald Abrams, MD*

9:00 Phytocannabinoids in the Treatment of Breast Cancer and Glioma Cell Cancer • *Cristina Sanchez, PhD*

9:30 Cannabis Oil and Skin Cancer • *Robert Melamede, PhD*

10:00 Break

10:20 Empirical Rationales for the Possibility of Cannabis Therapeutics in Post Traumatic Stress • *Christopher Fichtner, MD*

10:50 Practical Applications of Cannabis for Post Traumatic Stress • *Bryan Krumm, RN, CNP*

11:20 Clinical Trials of Cannabis Use for Post Traumatic Stress Among Veterans • *Yehuda Baruch, MD (invited) and Sue Sisley, MD*

12:00 **Lunch** with speaker
How to Help When There is No Hope (20 minutes) • *Vincent Palazzotto*

1:30 The Use of Cannabis for ALS • *Greg Carter, MD & Cathy Jordan (patient)*

2:00 Can Cannabis Prevent Alzheimer's Disease? • *Gary Wenk, PhD*

2:30 Q & A

3:00 Break

3:20 Panel: The ECS and Clinical Implications for Health Care
Clint Werner (Moderator), Andrew Weil, MD, Julie Holland, MD, Melanie Dreher, RN, PhD

4:30 Day end

THE SEVENTH NATIONAL CLINICAL CONFERENCE ON CANNABIS THERAPEUTICS The Endocannabinoid System: Clinical Implications for Health Care (Course #MMJ12106)

April 26–28, 2012 • Loews Ventana Canyon • Tucson, AZ

REGISTRATION FORM

Name _____

Academic Degree/Title _____

Organization/Institution/Company _____

Mailing Address _____

City _____

State _____ Zip _____

Telephone _____

Fax _____

E-mail _____

Do you have any dietary restrictions or special needs because of a handicap or disability? If so, please describe: _____

Vegetarian

Enclosed is my completed form and check made payable to **Patients Out of Time.**

Charge to my credit card account:

MasterCard Visa

Account Number _____

Exp. Date _____

Signature _____

CONFERENCE FEES

Physicians	\$425	\$ _____
Nurses, Health Care Professionals, other professionals	\$315	\$ _____
Students, patients, public at large	\$215	\$ _____
Late registration fee (After April 4, 2012)	\$50	\$ _____
Patients Out of Time Benefit Dinner, Friday evening	\$100	\$ _____
Additional Dinner Guest(s) x	\$100	\$ _____
TOTAL ENCLOSED:		\$ _____

EXHIBITOR REGISTRATION

See online form at <http://medicalcannabis.com/Conference-Registration/exhibitor-form>

Return form and payment by mail or fax to Patients Out of Time

1472 Fish Pond Road • Howardsville, VA 24562
434-263-4484 • Fax: 434-263-6753

Registration form and payment also may be made online at www.medicalcannabis.com.

***Advance conference registration is advised since seating shall be limited.**

A \$50 late fee will be added to the above categories after April 4, 2012.

Cancellation Policy: Refunds, less a \$50 handling fee, will not be made after April 12, 2012.

Conference registration includes conference materials, refreshment breaks and buffet lunch.

Handicapped parking and facilities are provided. Pets are welcome.

Conference registration and payment may also be made online at www.medicalcannabis.com.

ACCREDITATION, DISCLOSURES AND GENERAL INFORMATION

Accreditation Statement: This activity has been planned and implemented in accordance with the essential areas and policies for the Accreditation Council for Continuing Medical Education (ACCME) through the joint sponsorship of the University of California, San Francisco School of Medicine (UCSF) and Patients Out of Time. UCSF is accredited by the AACME to provide continuing medical education for physicians.

Designation Statement: UCSF designates this educational activity for a maximum of 12.75 AMA PRA category 1 credits (TM).

Physicians should only claim credit commensurate with the extent of their participation in the activity. Fees for CME credits will be \$25.00 per person and collected on site.

Nursing Contact hours provided by The University of Arizona Medical Center Staff Development and Education. Provider approved by The California Board of Registered Nursing, BRN Provider No. CEP 10039 for 14.2 contact hours (7.2 for Friday and 7 for Saturday).

Advance conference registration is advised since seating shall be limited. Full conference registration fees include all program material and all refreshment breaks.

Disclosure: The educational content of the conference and the selection of the faculty are the responsibility of the course planning committee. All faculty and invited speakers participating in a UCSF sponsored CME activity have disclosed any relevant financial relationships with commercial support entities. All potential conflicts of interest have been resolved in accordance with the ACCME's Updated Standards for Commercial Support.



Lodging: Attendees are responsible for making their own lodging arrangements. The conference will be held at Loews Ventana Canyon Resort, 7000 North Resort Dr., Tucson, AZ 85750. Phone: 520-299-2020. Fax: 520-299-4151. A breathtaking desert sanctuary located in a lush 100-acre desert garden at the foothills of the magnificent Santa Catalina Mountains, Loews Ventana Canyon Resort captures the spirit, beauty and culture of the Southwest's Sonoran Desert. Newly renovated guest rooms offer private terraces, breathtaking views of the area and every creature comfort. Resort facilities include two signature 18-hole golf courses, two pools, tennis courts, hiking trails, and par course.

A variety of dining options include the innovative Flying V Bar and Grill. To get the reduced rate of \$159 plus tax (single or double), please reference "the Seventh National Conference on Cannabis Therapeutics" or register online at www.loewshotels.com/en/Ventana-Canyon-Resort/GroupPages/PatientsOutOfTime.

Travel: The hotel is 35 minutes from the Tucson International Airport, 20 minutes from the University of Arizona, 25 minutes from downtown Tucson, and a 2-hour drive south of Phoenix. For directions from the Tucson or Phoenix International Airports or driving to Tucson, see online directions at: www.loewshotels.com/en/Ventana-Canyon-Resort/index/map.