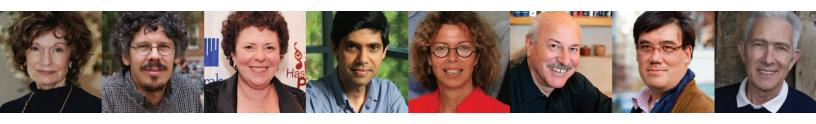
MUSIC, THE BRAIN, MEDICINE, AND WELLNESS: A SCIENTIFIC DIALOGUE

A Scientific Symposium Presented in Association with the 40th Anniversary of the Santa Fe Chamber Music Festival

August 4-6, 2012 • Eldorado Hotel & Spa • Santa Fe, New Mexico



SYMPOSIUM SYNOPSIS

Targeted attendees include research scientists, physicians, and health care professionals who are engaged in research in the fields of music and the brain, cognitive neuroscience, and the application of music to healing and music therapy in the treatment of cancer, neurologic diseases, mental disorders, and other chronic conditions.

The overall goal of the Symposium is to bring "world class" scientists, physicians, healthcare professionals, and therapists to Santa Fe to interface with "world class" musicians, and, to present cutting edge research and the state of the science in three areas of investigation:

1) how the development of the brain in early childhood and how cognitive development, language, emotion, and memory are influenced by various forms of music; 2) how music can be used to promote wellness and healing in patients with serious medical conditions including cancer, neurologic, developmental and cognitive disorders such as autism, and other chronic health conditions; and 3) how music promotes wellbeing in an individual and a community. We wish to define the state of the science for researchers and healthcare workers in this field, to define

the most important questions for future research, and to understand how music can be applied in the art and practice of healing in medicine. In addition, the Symposium will provide many opportunities for interactions and "demonstrative" projects between scientists and musicians, as well as forums and concerts open to the public and lay audiences.

Questions addressed will include:

- What is the state of the science of the impact of music on the brain, medicine, and well being?
- What are the most critical questions for future research?
- How will this science inform new therapeutic approaches and clinical interventions?
- How can we best lead the field forward?









FRIDAY, AUGUST 3, 2012

6:00 PM

PRE-SYMPOSIUM CONCERT / PUBLIC LECTURE
St. Francis Auditorium

Music, The Brain, Medicine and Wellness: A Public Lecture and Music Demonstration

When Music Sings, the Brain Listens and the Heart Modulates

Kamal R. Chémali, MD Prisca Benoit, Piano

DAY 1

SATURDAY, AUGUST 4, 2012

7:00 AM - 8:00 AM

Breakfast for Meeting Attendees Eldorado Hotel

8:00 AM - 8:15 AM

Meeting Opening: Welcome, Introductions, Meeting Scope and Purpose

Conference Co-Chairs: Cheryl L. Willman, MD Marc Neikrug Barrie Cassileth, PhD

8:15 AM - 8:30 AM

Opening Remarks:

Josephine P. Briggs, MD; Director, National Center for Complementary and Alternative Medicine (NCCAM), National Institutes of Health

DAY 1 – SESSION 1

What is Music? How Do Harmony, Melody, Rhythm, and Tempo Impact Brain Function, Memory, and Emotion?

Session Co-Chairs: Aniruddh Patel, PhD and Isabelle Peretz, PhD

8:30 AM - 9:10 AM

Mapping Music to Memories

Petr Janata, PhD

9:10 AM - 9:50 AM

Music and Rhythm

Aniruddh Patel, PhD

9:50 AM - 10:30 AM

Music and Emotion

Robert Zatorre, PhD

10:30 AM - 10:45 AM

Break and Discussion

10:45 AM - 11:15 AM

Music, Emotion, and Behavior

David Huron, PhD

11:15 AM - 12:00 PM

INTERACTIVE PANEL / AUDIENCE PARTICIPATION AND DISCUSSION

Morning Speakers

SCIENCE/MEDICINE:

Cheryl Willman, MD; Barry Ramo, MD; Gottfried Schlaug, MD, PhD

MUSIC

Marc Neikrug, Artistic Director, Santa Fe Chamber Music Festival

INTERVENTION:

Concetta Tomaino, DA, MT-BC, LCAT

12:00 PM - 1:00 PM

LUNCH FOR MEETING ATTENDEES Fldorado Hotel

DAY 1 – SESSION 2

What is Music? How Do Harmony, Melody, Rhythm, and Tempo Impact Auditory Perception, Cognitive Development, Behavior, and Language?

How Music Can Be Used in Therapeutic Intervention?:

Session Co-Chairs: Aniruddh Patel, PhD and Isabelle Peretz, PhD

1:00 PM - 1:30 PM

Music, Cognitive Function, and Language

Aniruddh Patel, PhD

1:30 PM - 2:10 PM

Music, Language, and Intervention

Isabelle Peretz, MD

2:10 PM - 2:50 PM

Music and the Developing Brain

Laurel Trainor, PhD

2:50 PM - 3:00 PM

Break and Discussion

3:00 PM - 3:40 PM

Music and Intervention: Autism

Pamela Heaton, PhD

3:40 PM - 4:00 PM

INTERACTIVE PANEL / AUDIENCE PARTICIPATION AND DISCUSSION

Afternoon Speakers

SCIENCE:

Michael Thaut, PhD; Robert Zatorre, PhD; Gottfried Schlaug, MD, PhD; Petr Janata, PhD

MUSIC:

Tara Helen O'Connor, Flute; Michael Rusinek, Clarinet – Pittsburgh Symphony

INTERVENTION:

Suzanne Hanser, EdD, MT

5:00 PM

FESTIVAL CONCERT Lensic Performing Arts Center Santa Fe Chamber Music Festival

Brief Introduction of Concert by Symposium Faculty Cheryl Willman, MD; Marc Neikrug; David Huron, PhD

JOHANN SEBASTIAN BACH

Piano Concerto No. 1 in D Minor, BWV 1052

Piano Concerto No. 4 in A Major, BWV 1055

Piano Concerto No. 5 in F Minor, BWV 1056

Piano Concerto No. 7 in G Minor, BWV 1058

Inon Barnatan, piano; Jennifer Gilbert, violin; Harvey de Souza, violin; Hsin-Yun Huang, viola; Joseph Johnson, cello; Marji Danilow, bass

DAY 2

SUNDAY, AUGUST 5, 2012

7:00 AM - 8:00 AM

Breakfast for Meeting Attendees Eldorado Hotel

DAY 2 - SESSION 1

Music, The Brain, Motor Function, and Therapeutic Intervention:

What is the State of the Science in Neurologic Disorders and Stroke?

What are the Challenges and Key Questions for Future Research and Intervention?

Session Co-Chairs: Barrie Cassileth, PhD and Cheryl Willman, MD

8:00 AM - 8:40 AM

Music, Movement, and Motor Control

Michael Thaut, PhD

8:40 AM - 9:20 AM

Music and Stroke Recovery: Singing and Aphasia

Gottfried Schlaug, MD, PhD

9:20 AM - 10:00 AM

Music and the Autonomic Nervous System

Kamal Chemali, MD

10:00 AM - 10:10 AM

Break and Discussion

10:10 AM - 10:50 AM

Music Therapy: Stroke, Parkinson's Disease, Alzheimer's, and Degenerative Disorders

Concetta M. Tomaino, DA. MT-BC, LCAT

10:50 AM - 11:30 AM

INTERACTIVE PANEL / AUDIENCE PARTICIPATION AND DISCUSSION

Morning Speakers

SCIENCE:

Josephine Briggs, MD; Aniruddh Patel, PhD; Isabelle Peretz, PhD

MUSIC:

Arnold Steinhardt, Violin

INTERVENTION:

Lisa Wong, MD

11:30 AM - 12:30 PM

LUNCH FOR MEETING ATTENDEES Eldorado Hotel

DAY 2 - SESSION 2

Music, Motor Function, and Therapeutic Intervention:

What is the State of the Science in Cancer, Chronic Disease, and Terminally III Patients?

What are the Challenges and Key Questions for Future Research and Clinical Therapeutic Intervention?

Session Co-Chairs: Barrie Cassileth, PhD and Cheryl Willman, MD

12:30 PM - 1:10 PM

Music Intervention in Cancer Patients

Barrie Cassileth, PhD

1:10 PM - 1:45 PM

Memorial Sloan Kettering Cancer Center Inpatient Music Cancer Therapy Program

Holly Mentzer, BM, MM, MA -Music Therapy

1:45 PM - 2:15 PM

Music as Therapy vs. Music in Therapy in Outpatient Infusion Center

Timothy Ringgold, MT-BC

2:15 PM - 3:00 PM

INTERACTIVE PANEL / AUDIENCE PARTICIPATION AND DISCUSSION

Afternoon Speakers

SCIENCE:

Pamela Heaton, PhD; Michael Thaut, PhD; Cheryl Willman, MD

MUSIC:

Alan Gilbert, Music Director -New York Philharmonic; Harvey de Souza, Violin – Academy of Saint Martin in the Fields

INTERVENTION:

Concetta Tomaino, DA, MT-BC, LCAT; Suzanne Hanser, MT-BC

3:30 PM

SYMPOSIUM PUBLIC CONCERT / LECTURE St. Francis Auditorium

Music, The Brain, Medicine, and Wellness: A Public Lecture and Music Demonstration

Feeling the Beat: Are Humans Unique?

Aniruddh Patel, PhD

Dr. Patel will discuss musical beat perception and why we move to the music! He will explain how this seemingly simple ability, which is at the foundation of much of the world's musical rhythms, actually requires specialized brain circuits that are found only in humans and a few other species. He will also discuss how this research is enhancing our ability to treat patients with Parkinson's Disease and other neurologic and movement disorders.

Music and Emotion: Got A Feeling?

David Huron, PhD

What precisely are music's mental attractions? Dr. Huron's early research centered on the perceptual foundations of melody and voiceleading, and he has also investigated sensory dissonance, musical similarity, and musical expectation.

His work on expectation is chronicled in the book *Sweet Anticipation: Music and the Psychology of Expectation.*His current research focuses on understanding how music evokes emotion. Dr. Huron emphasizes crosscultural comparisons in pursuing his research, involving the analysis of Native American, Chinese, Japanese, Hasidic, Balinese, Korean, and sub-Saharan African music.

6:00 PM

FESTIVAL CONCERT Lensic Performing Arts Center Santa Fe Chamber Music Festival

Brief Introduction of Concert by Symposium Faculty Cheryl Willman, MD; Marc Neikrug; Concetta Tomaino, DA, MD-BC, LCAT

MOZART Piano Quartet in E-flat Major, K. 493

Harvey de Souza, violin; Hsin-Yun Huang, viola; Kajsa William-Olsson, cello; Joyce Yang, piano

SCHOENBERG Chamber Symphony No. 1 in E Major, Op. 9

Alan Gilbert, conductor;
Tara Helen O'Connor, flute;
Liang Wang, oboe; Robert Ingliss, oboe;
Ricardo Morales, clarinet;
Michael Rusinek, clarinet;
Stephen Ahearn, bass clarinet;
Nancy Goeres, bassoon; Philip Myers,
horn; Julie Landsman, horn;
Jennifer Gilbert, violin; Harvey de Souza,
violin; Hsin-Yun Huang, viola; Eric Kim,
cello; Marji Danilow, bass

MENDELSSOHN Octet in E-flat Major, Op. 20

Jennifer Gilbert, violin; Arnold Steinhardt, violin; Alan Gilbert, violin; Harvey de Souza, violin; John Dalley, viola; Michael Tree, viola; Peter Wiley, cello; Eric Kim, cello

DAY 3

MONDAY, AUGUST 6, 2012

7:00 AM - 8:00 AM

Breakfast for Meeting Attendees Eldorado Hotel

DAY 3 – SESSION 1

Music and Well Being: From the Individual to the Community

Session Co-Chairs: Suzanne Hanser, PhD and David Huron, PhD

8:00 AM - 8:45 AM

Music, Culture, and Community

David Huron, PhD

8:45 AM - 9:45 AM

Music in Everyday Life - Interventions for Wellness, Stress Management, and Quality of Life

Suzanne Hanser, PhD; Lynn Gorman DeVelder; Adrian Anantawan

9:45 AM - 10:15 AM

Music Moving Forward: Adaptation and Evolution

Adrian Anantawan

10:15 AM - 10:30 AM

Break and Discussion

10:30 AM - 11:10 AM

Scales to Scalpels: Doctors Who Practice the Healing Art of Music and Medicine

Lisa Wong, MD

11:10 AM - 12:00 PM

INTERACTIVE PANEL / AUDIENCE PARTICIPATION AND DISCUSSION

Morning Speakers

SCIENCE:

Josephine Briggs, MD; Cheryl Willman, MD; Barrie Cassileth, PhD

MUSIC:

Inon Barnatan, Piano; Marc Neikrug, Santa Fe Chamber Music Festival

INTERVENTION:

Suzanne Hanser, PhD; Concetta Tomaino, DA, MT-BC, LCAT

12:00 PM

Conference Closing Remarks and Adjournment

Presentation of the Key Scientific Questions

Accreditation

The University of New Mexico School of Medicine, Office of Continuing Medical Education is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The Office of Continuing Medical Education designates this live activity for a maximum of 15.5 AMA PRA Category 1 Credit(s)TM. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

This activity is approved for 15.5 contact hours by the University of New Mexico Office of Continuing Medical Education, an approved provider of continuing nursing education by the New Mexico Nurses Association, an accredited approver by the American Nurses Credentialing Center's Commission on Accreditation.

Certificates of nursing credit will be issued at the end of the symposium 12:30 pm on August 6, 2012, in exchange for symposium evaluations.

Contact Information

This symposium is presented by the University of New Mexico Cancer Center and the Office of Continuing Medical Education. For additional information contact:



Office of Continuing Medical Education MSC09 5370, 1 University of New Mexico Albuquerque, New Mexico 87131-0001 (505) 272-3942 - FAX (505) 272-8604 Visit our website at http://som.unm.edu/cme

Individuals requiring special accommodations should contact the Office of Continuing Medical Education at (505) 272-3942. UNM is in compliance with the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990.

Registration Information

Advance registration is encouraged. Please register early to avoid disappointment. Minimum and maximum numbers have been established for this symposium and social events. Registrations paid in cash must be in the exact amount of tuition. The Office of CME does not maintain a petty cash fund. Cash payments must be made in the exact amount of tuition. It is UNM Policy to charge offerer \$15.00 plus normal merchant bank fees for each returned check.

If you are paying by credit card, we have on-line registration capability at the UNM CME website, http://som.unm.edu/cme. A confirmation letter will be e-mailed to you. Please present your confirmation letter at the registration desk upon arrival at the symosium. If you do not receive a confirmation letter, please contact the Office of CME at (505) 272-3942 to verify your attendance. Registration includes symposium materials, meals, refreshment breaks, and beverages. Your pre-registration will be confirmed.

Telephone (505) 272-3942 and FAX (505) 272-8604 registrations will be accepted only with VISA/MasterCard. Faxed registrations, which do not have credit card information provided, will not be processed.

Symposium Registration Fees		
	"EARLY" REGISTRATION (postmarked on or before 3/30/2012)	REGULAR REGISTRATION (postmarked after 3/30/2012)
For Health Professionals with Advanced Degrees (MD, DO, PhD, MA/MS)	\$295.00	\$335.00
General Public/Non-Medical Professional	\$295.00	\$335.00
For Allied Health Professionals (PA/NP, Nurses, Music Therapists, and Other Allied Health Professionals)	\$245.00	\$285.00
For Full Time Students (Undergraduate, Graduate Level) *	\$160.00	\$200.00
Additional Concert and Public Lecture Package \$100 **		
6:00 PM Friday, August 3 - Symposium Public Concert / Lecture, St. Francis Auditorium		\$25
5:00 PM Saturday, August 4 - Festival Concert, The Lensic Performing Arts Center		\$30
3:30 PM Sunday, August 5 - Symposium Public Concert / Lecture, St. Francis Auditorium		\$25
6:00 PM Sunday, August 5 - Festival Concert, The Lensic Performing Arts Center		\$55
Value		\$135
* Must provide proof of student status full-time status. Will not receive professional cred	it.	X

** While tickets last, "Additional Concert and Public Lecture Package" for \$100, or individual events may be purchased for Symposium registrants only.

Tuition Remission

All eligible UNM Faculty and Staff may enroll using a tuition remission (waiver) to cover tuition costs listed on the registration form. Properly completed and original remissions must accompany the registration form. Proper completion includes all required signatures. No refund or credit will be issued for non-attendance. The on-line UNM Tuition Form may be accessed at http://som.unm.edu/cme/CME%20 Forms/Index.html

Cancellation

If you cannot attend, the Office of Continuing Medical Education will refund tuition, less a \$40.00 administrative fee provided it is received in writing prior to July 27, 2012. No refunds will be issued after this date or for non-attendance. Symposiums are subject to cancellation. In the event this symposium is cancelled, the Office of CME is not responsible for any airfare, hotel, or other costs incurred by participants.

Symposium Location / Accommodations

The symposium will be held at the Eldorado Hotel and Spa, 309 West San Francisco St., Santa Fe, New Mexico 87501. A block of rooms has been reserved for participants of this symposium at the Eldorado Hotel and Spa for the nights of August 3 – August 5, 2012. Special rates are available to you if you make your room reservations no later than Tuesday, July 3, 2012.

To make room reservations, participants should contact the Eldorado Hotel and Spa directly:

Eldorado Hotel and Spa 309 West San Francisco St. Santa Fe, New Mexico 87501 Phone: 800-955-4455 or Email: rez@eldoradohotel.com www.eldoradohotel.com

Please identify yourself as a participant of the Music, The Brain, Medicine and Wellness Symposium

Participant rate is: \$289.00 (Deluxe King)

All reservations must be guaranteed with a one night's deposit in the form of a credit card.

We have also secured a courtesy block of rooms for the nights of 8/3/2012 through 8/6/2012 at the following nearby hotels. These hotels are just a short walk from the symposium site. Attendees should call the hotel(s) directly and identify yourself with the "Music, The Brain, Medicine and Wellness" Symposium.

Hilton Santa Fe Historic Plaza 100 Sandoval Street Santa Fe, New Mexico 87501 505-988-2811 or 800-HILTONS Website: www.hiltonofsantafe.com Hotel Santa Fe The Hacienda and Spa 1501 Paseo de Peralta Santa Fe, New Mexico 87501 877-955-7835 Email: stay@hotelsantafe.com

Website: www.hotelsantafe.com

How To Attend:

- On-line at www.MusicAndTheBrainSantaFe.com
- On-line at: http://som.unm.edu/cme/2012/2012-Conferences.html
- Fax your registration 24 hours/day to (505) 272-8604
- Call (505) 272-3942 between 8:00 am and 5:00 pm M.S.T.
- Mail to: UNM, Office of CME, MSC09 5370, 1 University of New Mexico, Albuquerque, NM 87131-0001

Register now to avoid disappointment.

REGISTRATION FORM

University of New Mexico Cancer Center and the Santa Fe Chamber Music Festival 40th Anniversary present Music, The Brain, Medicine and Wellness: A Scientific Dialogue August 4-6, 2012 • Santa Fe, New Mexico Name: Specialty: ☐ PhD ☐ DEd ☐ NP Other: Title: \Box DO ☐ PA ☐ Nurse Street: State: Zip: City: Phone: Fax: Email: "EARLY" REGISTRATION **REGULAR REGISTRATION** (postmarked on or before (postmarked after 3/30/2012) 3/30/2012) For Health Professionals with Advanced Degrees (MD, DO, PhD, MA/MS) \$295.00 \$335.00 General Public/Non-Medical Professional \$295.00 \$335.00 For Allied Health Professionals (PA/NP, Nurses, Music Therapists, and \$245.00 \$285.00 Other Allied Health Professionals) \$200.00 \$160.00 For Full Time Students (Undergraduate, Graduate Level) * I would like to purchase the Additional Concert and Public Lecture Package for Symposium Registrants ** \$100 ☐ I would like to purchase individual events ** ☐ 6:00 PM Friday, August 3 - Symposium Public Concert / Lecture, St. Francis Auditorium \$25 ☐ 5:00 PM Saturday, August 4 - Festival Concert, The Lensic Performing Arts Center \$30 3:30 PM Sunday, August 5 - Symposium Public Concert / Lecture, St. Francis Auditorium \$25 ☐ 6:00 PM Sunday, August 5 - Festival Concert, The Lensic Performing Arts Center \$55 Value \$135 Register now while tickets last! ■ Vegetarian Meals: ☐ Non-Vegetarian Please indicate method of payment: Mastercard/Visa Account # ☐ Check (Make payable to UNM Office of CME) **Expiration Date** Amount \$ ☐ UNM Tuition Remission Form (copy enclosed) ☐ Purchase Order # (copy enclosed) Include last 3 numbers of code on back of card ☐ MasterCard / Visa Signature Make check payable to UNM Office of Continuing Medical Education and mail it along with this form to: UNM Office of CME, MSC09 5370,

Make check payable to UNM Office of Continuing Medical Education and mail it along with this form to: UNM Office of CME, MSC09 5370, 1 University of New Mexico, Albuquerque, NM 87131-0001. Telephone (505) 272-3942 and Fax (505) 272-8604 registrations accepted for VISA or MasterCard only. Faxed registrations, which do not have credit card information provided, will not be processed.

^{*} Must provide proof of student status full-time status. Will not receive professional credit.

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