



Addiction and Nutrition Workshop

**Madison Room
Hilton Rockville Hotel and Executive Meeting Center
Rockville, Maryland**

June 3 - 4, 2010

AGENDA

Day One Thursday, June 3, 2010

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| 7:15 – 8:10 a.m. | Registration |
| 8:10 – 8:20 a.m. | Welcome and Introductions
<i>Rao Rapaka, Ph.D.</i>
<i>National Institute on Drug Abuse</i> |
| 8:20 – 8:30 a.m. | Workshop Mission/NIDA's Goals
<i>David Shurtleff, Ph.D.</i>
<i>National Institute on Drug Abuse</i> |
| 8:30 – 8:45 a.m. | Gaps and Goals
<i>Daniele Piomelli, Ph.D.</i>
<i>University of California, Irvine</i> |

Session I

Chairs:
Rao Rapaka, Ph.D.
National Institute on Drug Abuse

David Shurtleff, Ph.D.
National Institute on Drug Abuse

- 8:45 – 9:45 a.m.** **A Diet for Health and Longevity: How Do We Get There?**
KEYNOTE ADDRESS
Bruce N. Ames, Ph.D.
University of California, Berkeley
- 9:45 – 10:15 a.m.** **Nutrition and Addiction: The NIDA Perspective**
Nora D. Volkow, M.D.
Director
National Institute on Drug Abuse
- 10:15 – 10:45 a.m.** **Break**
- 10:45 – 11:15 a.m.** **Dietary Choline: Brain Development**
Steven H. Zeisel, M.D., Ph.D.
University of North Carolina at Chapel Hill
- 11:15 – 11:45 a.m.** **Iron and the Dopaminergic System**
James R. Connor, Ph.D.
Penn State Milton S. Hershey Medical Center
- 11:45 a.m. – 12:15 p.m.** **Zinc Signaling and Neuropsychological Symptoms
in Zinc Deficiency**
Atsushi Takeda, Ph.D.
University of Shizuoka
Japan
- 12:15 – 1:45 p.m.** **Working Lunch**
- 1:45 – 2:15 p.m.** **Summary and Discussion**
Bruce N. Ames, Ph.D.
University of California, Berkeley

Session II

Chair:
Joseph Frascella, Ph.D.
National Institute on Drug Abuse

- 2:15 – 2:45 p.m.** **Evolutionary Aspects of Diet:
The Omega-6/Omega-3 Fatty Acid Ratio and the Brain**
Artemis P. Simopoulos, M.D.
The Center for Genetics, Nutrition and Health
- 2:45 – 3:15 p.m.** **Nutrition, Synaptic Circuitry and Memory Areas:
Sterospecific Mediators of Essential Omega-3 Fatty Acids**
Nicolas Bazan, M.D., Ph.D.
Louisiana State University Health Sciences Center

- 3:15 – 3:45 p.m.** **Break**
- 3:45 – 4:15 p.m.** **Brain Creatine Levels are Altered in Drug Addiction,
and Supplementation with Creatine Changes
Vulnerability to Depression**
Kristen D’Anci, Ph.D.
Tufts University
- 4:15 – 4:45 p.m.** **How Nutrient Metabolism May Influence Cognition:
The Case of Alzheimer’s Disease**
Daniele Piomelli, Ph.D.
University of California, Irvine
- 4:45 – 5:15 p.m.** **Potential Utility of DHA and Curcumin for
Neurological Diseases**
Greg M. Cole, Ph.D.
Greater Los Angeles VA Healthcare System
- 5:15 – 5:45 p.m.** **Summary and Discussion**
Nicolas Bazan, M.D., Ph.D.
Louisiana State University Health Sciences Center
- 5:45 p.m.** **Adjournment**

Day Two
Friday, June 4, 2010

7:15 – 8:15 a.m.

Registration

Session III

Chair:

Minda Lynch, Ph.D.

National Institute on Drug Abuse

8:15 – 8:45 a.m.

Announcements

Rao Rapaka, Ph.D.

National Institute on Drug Abuse

Paul Schnur, Ph.D.

National Institute on Drug Abuse

8:45 – 9:15 a.m.

**Dietary/Nutritional Effects on Vocalizations and Other
Cognitive Functions**

Claudio V. Mello, M.D., Ph.D.

Oregon Health & Science University

9:15 – 9:45 a.m.

**Targeting Inflammation by Dietary Agents for
Neuroprotection**

Bharat B. Aggarwal, Ph.D.

The University of Texas MD Anderson Cancer Center

9:45 – 10:15 a.m.

**Modulation of Multiple Brain Targets by Food
Polyphenols: A Nutritional Neuroprotective Strategy
for Brain Ageing and Cognitive Disorders**

Giovanni Scapagnini, M.D., Ph.D.

University of Molise

Italy

10:15 – 10:45 a.m.

**Addictive Genes and Relationship to Inflammation
and Obesity**

David Heber, M.D., Ph.D.

University of California, Los Angeles

10:45 – 11:15 a.m.

Break

11:15 – 11:45 a.m.

Summary and Discussion

Daniele Piomelli, Ph.D.

University of California, Irvine

11:45 a.m. – 1:00 p.m.

Working Lunch

1:00 – 3:00 p.m.

Discussion: Gaps, Goals and Future Directions

*Bruce Ames, Ph.D., Daniele Piomelli, Ph.D.,
Nicolas Bazan, M.D., Ph.D., and Paul Schnur, Ph.D.*

3:00 – 3:10 p.m.

Closing Remarks

*Rao Rapaka, Ph.D.
National Institute on Drug Abuse*

3:10 p.m.

Adjournment