

Funding **forward-thinking** anesthesia research.



Investing in our **future**.



**IARS**

International Anesthesia Research Society

Fiscal Year 2011 Annual Report | January - December 2011

# Programs and Services

## Membership

The IARS membership program provides full access to a nonpolitical community committed to enhancing anesthesia research and education, and improving patient care. IARS members participate in the Society's annual clinical and scientific meeting, gain information regarding all the latest advances in anesthesia research through the Society's journal *Anesthesia & Analgesia*, and enjoy an online CME program.

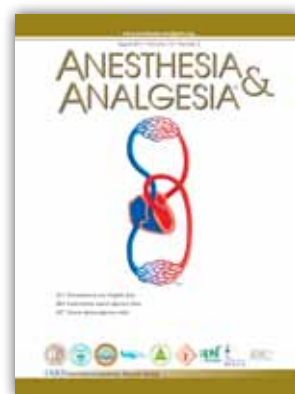
The IARS provides the tools and resources industry professionals need to stay in the forefront of anesthesiology.

## Anesthesia & Analgesia

The IARS has published *Anesthesia & Analgesia*, the leading journal in the field, since 1922. Each monthly issue features peer-reviewed articles reporting on the latest advances in drugs, perioperative care, preoperative preparation, patient monitoring, pain management, patient safety and other timely topics. Internationally renowned authorities serve on the Editorial Board and as Section Editors, making A&A your gateway to everything that is happening in anesthesia and its related subspecialties.

A&A is available in print to all members of the IARS, as well as online at [www.anesthesia-analgesia.org](http://www.anesthesia-analgesia.org). Additionally, A&A is available on all mobile devices and the iPad through an app launched in November 2011. As the most widely read anesthesia journal, A&A had more than 500,000 full-text and PDF downloads per month in 2011. The journal's Impact Factor in 2011

was 3.3 and has steadily increased over the last five years. The journal's Immediacy Index, which measures citations of the journal's articles within one year of publication, and its Eigenfactor score, which assesses the journal's total importance to the scientific community, are the highest among all anesthesiology journals.



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## OpenAnesthesia

OpenAnesthesia ([openanesthesia.org](http://openanesthesia.org)), launched in 2009, is a website focused on resident education. OA has surged in popularity over the last 3 years and is on its way to becoming one of the most popular education websites in the field of anesthesiology. In 2011, OA obtained more than 1.5 million page views. The newest features of the site – including the “Article of the Month”, the “Ask the Experts” podcast, the “Review Question of the Week,” and “Intraoperative TEE Case of the Month” – are all proving to be extremely popular with medical residents and clinicians alike.

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## Member Testimonial

Recently, the IARS received a letter from Dr. Wendy Knudsen who just retired from daily practice. She wanted to express her gratitude for the guidance and education the Society's journal, *Anesthesia & Analgesia*, provided to her throughout her entire career.

“I have been a member of the Society since 1978 and still come across in my files the occasional ‘classic’ article published in earlier journals. From the beginning of my residency through my fellowship into my active practice, I have always learned more from the articles published in your Journal than from those in other journals in the specialty. Thank you again for many years of education.”

## Annual Meeting

The IARS Annual Meeting marked its 85th year in 2011 at the Westin Bayshore in Vancouver, Canada. The purpose of the IARS Annual Meeting is to provide clinical practitioners, physicians in training, and researchers in anesthesia with information about the latest scientific advances and the most up-to-date concepts in clinical care. The IARS International Science Symposium offers a unique opportunity for researchers to join together in discussion about cutting edge science and how it affects the anesthesiology specialty.

A special feature of the 2011 meeting included the **Kosaka Abstract Award Session** and the **Best of Meeting Award Session**.



## The Kosaka Abstract Awards

Co-sponsored by the IARS and the Japan Society for Clinical Anesthesia (JSCA), the Kosaka Awards were presented to the best abstract presentations from a group of eight abstracts submitted by Japanese researchers, along with eight abstracts on the same topic submitted by their international colleagues.

In 2011, two Awards were presented: one for best patient-oriented research and one for best basic science research. The IARS gratefully acknowledges the support of the JSCA and their contribution of a \$1,000 award.

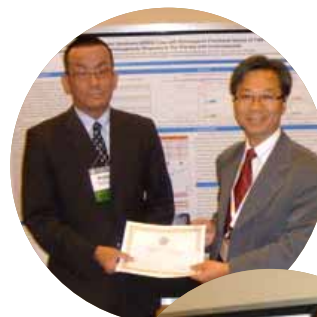
### 2011 Best Patient-Oriented Research Award Recipient

#### **HIROYUKI NISHIE, MD**

Okayama University Hospital, Okayama, Japan

*Abstract: An Acute Respiratory Distress Syndrome (ARDS) Case with Homozygous Functional Variant of T-Bet (T-Box Expressed in T Cells) Shows Dramatic Pharmacogenetic Response to the Therapy with Corticosteroids*

*Dr. Hiroyuki Nishie (left) and Dr. Davy Cheng, IARS Board Member*



### 2011 Best Basic Science Research Award Recipient

#### **MICHAEL J. STENTZ, BA**

University of Michigan, Ann Arbor, Michigan

*Abstract: Incidence and Risk Factors for Acute Lung Injury Following Emergent Surgery*

*Dr. Makota Ozaki, IARS Board Member (right), Michael J. Stentz*



*The purpose of the  
IARS Annual Meeting  
is to provide the most  
up-to-date concepts in  
clinical care.*

## Best of Meeting Awards

Abstracts were selected by peer review and judged by a panel of experts. Two awards were given: one for best patient-oriented research and one for best basic science research at the Annual Meeting.

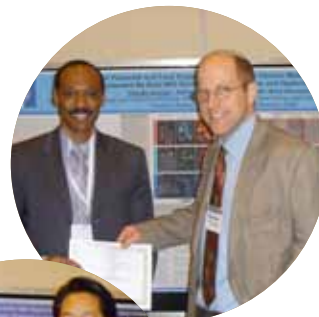
### 2011 Basic Science Research Award Recipient

**YEHUDA GINOSAR, BSC, MBBS**

Hadassah Hebrew University Medical Center, Jerusalem, Israel

*Abstract: Changes in Placental and Fetal Organ Perfusion During Chronic Maternal Hypoxia in Mice: Assessment by Bold MRI During Brief Hypercapnic and Hyperoxic Challenge*

*Dr. Tony Jones (left) and Yehuda Ginosar*



### 2011 Patient-Oriented Research Award Recipient

**CALEB ING, MD**

Columbia University, New York, NY

*Abstract: Long-Term Differences in Cognitive and Language Ability After Exposure to Surgery and Anesthesia in Infancy*

*Dr. Colleen Koch (left) and Dr. Caleb Ing*



## Continuing Medical Education

The 2011 IARS Annual Meeting CME activity addressed the continuing medical education needs of anesthesiologists, anesthesiologists in training, anesthesia researchers, and allied health professionals who conduct research, practice or intend to practice in any area of general anesthesia, subspecialty anesthesia, and pain management.

Findings from new research and the evolution of practice standards based on emerging evidence create an inherent gap between existing practice and new practice models. The mission of the IARS CME activities is principally to bridge the knowledge gap created by the advent of new data and practice patterns, with the intent that the acquisition of new knowledge will lead to physician behavior changes and improved patient outcomes.

As a result of participation in this CME activity, learners will:

- Increase their knowledge of the latest advances in anesthesiology practice;
- Recognize the current state of emerging knowledge and practice patterns;
- Recognize gaps in their knowledge, behavior, and patient outcomes that may result in a need for additional education and training.

The IARS offers two additional key CME opportunities:

- The IARS **Online Education Portal** offers videotaped review course lectures from the Annual Meeting for members.
- **Anesthesia & Analgesia** provides continuing medical education activities based on selected articles from the journal (approximately two new courses are presented each month). CME activities are available online at no cost to IARS members.

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# Anesthesia Research Grants

**Frontiers in Anesthesia Research Award (FARA) - \$750,000** (one award): The FARA is a triennial grant designed to foster innovation and creativity by an individual researcher in the anesthesia field. FARA, which will be increased from \$500,000 to \$750,000, is the largest IARS research award available per awarded grant. The next FARA will be presented in 2012.

**Clinical Scholar Research Awards (CSRA) - \$80,000** (per award): The CSRA is intended to support clinical investigations that will further the understanding of clinical practice in anesthesiology and related sciences. Up to four recipients are chosen each year.

## 2011 Award Recipient

**WILTON A. VAN KLEI, MD, PHD**

University Medical Center Utrecht, Utrecht, Netherlands

*Effect of Routine Postoperative Troponin Measurements on One Year Cardiac Events and Death*

*(Pictured top right)*



**Teaching Recognition Awards (TRA) - \$20,000** (two awards): The TRAs are granted to anesthesiology teachers whose educational contributions have resulted in substantial positive change to the practice of medicine.

## 2011 Innovation in Education Award Recipient

**LARRY CHU, MD, MS**

Associate Professor of Anesthesia, Stanford University, Stanford, California

*(Pictured middle right)*



## 2011 Achievement in Education Award Recipient

**LING QUN HU, MD**

Assistant Professor of Anesthesiology, Northwestern University, Chicago, Illinois

*(Pictured bottom right)*



**SCA/IARS Starter and Mid-Career Grants - \$200,000** (multiple awards): The IARS contributes \$200,000 annually to the Foundation of the Society of Cardiovascular Anesthesiologists (SCA) in support of cardiothoracic and vascular anesthesia research projects. Grants serve as springboards for both early and mid-career researchers.

**Starter Grants - \$50,000** (two awards annually)

## 2011 Award Recipients

**JAYANT NICK PRATAP, MD**

Cincinnati Children's Hospital Medical Center, Cincinnati, Ohio

*Randomized Trial of Near-Infrared Spectroscopy to Guide Intraoperative and Intensive Care Management during Children's Heart Surgery*

**JAN STUMPNER, MD**

University of Wuerzburg

*The Functional Role of Calcium/Calmodulin Kinase II in Ischemic and Anesthetic-Induced Cardiac Protection*

**Mid-Career Grant - \$100,000** (one award annually)

## 2011 Award Recipient

**DIEDERIK VAN DJIK, MD, PHD**

University Medical Center Utrecht, Utrecht, Netherlands

*The Effect of Dexamethasone on Cognitive Decline after Cardiac Surgery*

# SmartTots Initiative



Officially launched in March 2011 as a public-private-partnership between the U.S. Food and Drug Administration (FDA) and the International Anesthesia Research Society, SmartTots gained ground in 2011 in both building awareness and raising funds within the anesthesia community.

SmartTots-funded research is intended to make surgery, anesthesia and sedation safer for the more than 1 million infants and young children who undergo surgical procedures requiring anesthesia in the United States alone. This research will help determine if any particular anesthetic or sedative drugs pose hazards to young children, design the safest anesthetic and sedative regimes, and potentially foster the development of new anesthetic and sedative drugs.



## Recruiting Leadership

In 2011, SmartTots was taken to the next level of development with the recruitment of key leadership. The Executive Board, chaired by Dr. Michael Roizen, was established to focus on fundraising efforts, and the Steering Committee was implemented to provide general oversight.

### Executive Board

Dr. Michael Roizen, Chair  
David Abramson  
Mehmet Oz, MD  
Kelly Posner, PhD  
George Stephanopoulos

### Steering Committee

James Ramsay, MD, Co-Chair  
Bob Rappaport, MD, Co-Chair  
Emery Brown, MD, PhD  
Alex Evers, MD  
Robert Nelson, MD, PhD  
Merle Paule, PhD  
Debra Schwinn, MD  
William Slikker, Jr., PhD  
Christian Werner, MD  
Tom Cooper, Staff

A Scientific Advisory Board, established in October 2010 with the sole purpose of reviewing grant applications and navigating SmartTots' scientific direction, also took flight in 2011. This group, comprised of a multidisciplinary team of experts in anesthesia and other pertinent fields, finalized and implemented the SmartTots research agenda and issued the first request for research proposals. This first request for research proposals was successful with 33 applications submitted in late 2011 for award designations in 2012.

*SmartTots-funded research is intended to make surgery, anesthesia and sedation safer for young children*

## Building Partnerships

Key to the success of the SmartTots initiative are partnerships. Thus, the Affiliate Advisory Council, inclusive of stakeholders (professional societies, academic research institutions, patient advocacy groups, industry and other government and nonprofit organizations), has been created.

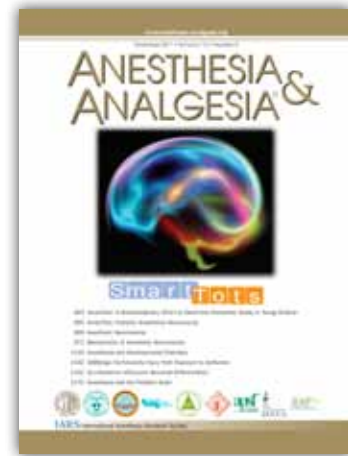
A listing of current Council members can be found at [www.SmartTots.org](http://www.SmartTots.org).

## Building Awareness

In order to build awareness of the SmartTots initiative, the IARS participated with booths in annual conferences including those hosted by the American Society of Anesthesiologists and the Society of Pediatric Anesthesia.

The IARS featured SmartTots in a panel at the 2011 Annual Meeting in Vancouver, Canada. SmartTots was also referenced in multiple scientific and mainstream media articles, including mentions in *The New England Journal of Medicine*, *The Journal of the American Medical Association*, *Pediatric Anesthesia*, *The American Society of Anesthesiologists Newsletter*, *The New York Times* and *The Wall Street Journal*.

Additionally, content and cover of the November 2011 issue of *Anesthesia & Analgesia* (right) was devoted to the Initiative and underlying research.



## Raising Funds

The IARS, as part of the agreement with the FDA, is tasked with raising the contributions needed to fund the SmartTots initiative. In the fall of 2011, the IARS commenced the fundraising effort by:

- Contributing \$200,000 to SmartTots. These funds, designed to boost the fundraising effort, were allocated for grant awards in 2012.
- Launching an annual campaign that raised over \$15,000 through a mail/email campaign. The total raised includes a matching gift from Drs. Michael and Nancy Roizen.



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# Thank you for Investing in Anesthesia Research!

## 2011 Donors (Jan 1 – Dec 31)

The IARS is grateful for the contributions received by our generous donors in support of anesthesia research. Acknowledging your contributions is important to us and therefore, we have developed two annual giving clubs, Champions of Research and Advocates for Research, each designed to celebrate donors committed to funding innovative and forward-thinking anesthesia research initiatives.

Each individual's total contributions to the IARS (including SmartTots) determine membership in our annual giving clubs. Corporate matching gifts are encouraged and will count toward club membership. Annual giving club memberships must be renewed each year with a contribution.

### Champions of Research (\$1,000 and up)

Dean Andropoulos  
Leah Jamison  
Russ Paravecchio  
Michael and Nancy Roizen  
Santhanam Suresh  
Wisconsin Society of  
Anesthesiologists

### Advocates for Research (\$50 - \$999)

Martha Anderson  
Rise Lavonne Barkhoff  
Richard Bartkowski  
Victor Baum  
Alex Y. Bekker  
Amy Benedikt  
Sudha Bidani  
Grail Lee Brookshire  
Emery Brown  
John Butterworth  
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J. Edward Carchidi  
Juan Cata  
Davy Cheng  
Thomas Cooper  
Stephen Cotton  
Paula Craigo  
Hamilton Davison  
Karen Edwards  
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John Ellis

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Paul Wender  
Deborah Wilkowski  
Augusto A. Wolfschoon  
Myron Yaster  
Marc Young



*Our donors are  
committed to funding  
innovative and  
forward-thinking  
anesthesia research.*





# Statement of Financial Position

## Assets

Cash and cash equivalents .....	\$88,619
Accounts receivable .....	\$1,216,566
Prepaid expenses and other assets .....	\$128,884
Investments .....	\$20,695,403

**Total Assets .....** **\$22,129,472**

## Liabilities and Net Assets

### Liabilities

Accounts payable and accrued liabilities.....	\$842,230
Pledge payable.....	\$394,746
Accrued honoraria and awards .....	\$651,537
Deferred revenue .....	\$986,010

**Total Liabilities .....** **\$2,874,523**

### Net Assets

Total unrestricted net assets .....	\$19,254,949
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**Total liabilities and net assets .....** **\$22,129,472**

# Board of Trustees

Fiscal Year 2011

## Executive Committee

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## Executive Director

**T.A. Cooper**

San Francisco, CA



## About the IARS

The International Anesthesia Research Society (IARS) is a nonpolitical, not-for-profit medical society founded in 1922 to advance and support scientific research and education related to anesthesia, and to improve patient care through basic research. The IARS contributes nearly \$1 million annually to fund anesthesia research; provides a forum for anesthesiology leaders to share information and ideas; maintains a worldwide membership of more than 15,000 health professionals in anesthesia-related practice; sponsors the SmartTots Initiative in partnership with the FDA; and publishes the monthly *Anesthesia & Analgesia* journal in print and online.



## Our Mission

The mission of the International Anesthesia Research Society is to encourage, stimulate, and fund ongoing anesthesia-related research projects that will enhance and advance the specialty, and to disseminate current, state-of-the-art, basic and clinical research data in all areas of clinical anesthesia, including perioperative medicine, critical care, and pain management. ***The IARS is focused solely on the advancement and support of education and scientific research related to anesthesiology.***



# IARS

International Anesthesia Research Society