

# **Meeting of the IACC**

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## **Discussion of Nominated 2016 Science Advances**

# **2016 Summary of Advances Nominations July - October**

# Q1. When should I be concerned?

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*No articles were nominated in July - October 2016 for Question 1*

# Q2. How can I understand what is happening?

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## Molecular Psychiatry

July 5, 2016

### **Altered proliferation and networks in neural cells derived from idiopathic autistic individuals**

Marchetto MC, Belinson H, Tian Y, Freitas BC, Fu C, Vadodaria KC, Beltrao-Braga PC, Trujillo CA, Mendes AP, Padmanabhan K, Nunez Y, Ou J, Ghosh H, Wright R, Brennand KJ, Pierce K, Eichenfield L, Pramparo T, Eyster LT, Barnes CC, Courchesne E, Geschwind DH, Gage FH, Wynshaw-Boris A, Muotri AR

## *Journal of the American Academy of* **CHILD & ADOLESCENT PSYCHIATRY**

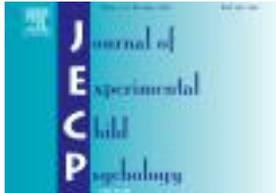
July 2016

### **Salience Network Connectivity in Autism Is Related to Brain and Behavioral Markers of Sensory Overresponsivity**

Green SA, Hernandez L, Bookheimer SY, Dapretto M

# Q2. How can I understand what is happening?

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December 2016

## **Infants' observation of tool-use events over the first year of life**

Libertus K, Greif ML, Needham AW, Pelphrey K



September 2016

## **Functional Connectivity of the Amygdala Is Disrupted in Preschool-Aged Children With Autism Spectrum Disorder**

Shen MD, Li DD, Keown CL, Lee A, Johnson RT, Angkustsiri K, Rogers SJ, Müller RA, Amaral DG, Nordahl CW

# Q3. What caused this to happen and can it be prevented?

American Journal of  
**EPIDEMIOLOGY**

February 1, 2016

## **Maternal Consumption of Seafood in Pregnancy and Child Neuropsychological Development: A Longitudinal Study Based on a Population With High Consumption Levels**

Julvez J, Méndez M, Fernandez-Barres S, Romaguera D, Vioque J, Llop S, Ibarluzea J, Guxens M, Avella-Garcia C, Tardón A, Riaño I, Andiarena A, Robinson O, Arija V, Esnaola M, Ballester F, Sunyer J

**ehp** ENVIRONMENTAL  
HEALTH  
PERSPECTIVES

July 1, 2016

## **Project TENDR: Targeting Environmental Neuro-Developmental Risks. The TENDR Consensus Statement**

Bennett D, Bellinger DC, Birnbaum LS, Bradman A, Chen A, Cory-Slechta DA, Engel SM, Fallin MD, Halladay A, Hauser R, Hertz-Picciotto I, Kwiatkowski CF, Lanphear BP, Marquez E, Marty M, McPartland J, Newschaffer CJ, Payne-Sturges D, Patisaul HB, Perera FP, Ritz B, Sass J, Schantz SL, Webster TF, Whyatt RM, Woodruff TJ, Zoeller RT, Anderko L, Campbell C, Conry JA, DeNicola N, Gould RM, Hirtz D, Huffling K, Landrigan PJ, Lavin A, Miller M, Mitchell MA, Rubin L, Schettler T, Tran HL, Acosta A, Brody C, Miller E, Miller P, Swanson M, Witherspoon NO; American College of Obstetricians and Gynecologists (ACOG); Child Neurology Society; Endocrine Society; International Neurotoxicology Association; International Society for Children's Health and the Environment; International Society for Environmental Epidemiology; National Council of Asian Pacific Islander Physicians; National Hispanic Medical Association; National Medical Association

# Q3. What caused this to happen and can it be prevented?

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International Journal of  
**Epidemiology**

June 28, 2016

## **Acetaminophen use in pregnancy and neurodevelopment: attention function and autism spectrum symptoms**

Avella-Garcia CB, Julvez J, Fortuny J, Rebordosa C, García-Esteban R, Galán IR, Tardón A, Rodríguez-Bernal CL, Iñiguez C, Andiarena A, Santa-Marina L, Sunyer J

# Q4. Which treatments and interventions will help?

## Research in Autism Spectrum Disorders

July 2016

**The effects of embodied rhythm and robotic interventions on the spontaneous and responsive social attention patterns of children with Autism Spectrum Disorder (ASD): A pilot randomized controlled trial**

Srinivasan SM, Eigsti IM, Neelly L, Bhat AN



July-August 2016

**Longitudinal Effects of Adaptive Interventions With a Speech-Generating Device in Minimally Verbal Children With ASD**

Almirall D, DiStefano C, Chang YC, Shire S, Kaiser A, Lu X, Nahum-Shani I, Landa R, Mathy P, Kasari C

The International Journal of Research and Practice • Volume 18 Number 1 January 2014

**autism**

August 2016

**Social network analysis of children with autism spectrum disorder: Predictors of fragmentation and connectivity in elementary school classrooms**

Anderson A, Locke J, Kretzmann M, Kasari C; AIR-B Network

# Q5. Where can I turn for services?

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*No articles were nominated in July - October 2016 for Question 5*

# **Q6. What does the future hold, particularly for adults?**

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***No articles were nominated in July - October 2016 for Question 6***

# **Q7. What other infrastructure and surveillance needs must be met?**

*No articles were nominated in July - October 2016 for Question 7*

# IACC Summary of Advances

**Susan A. Daniels, Ph.D.**

Director, Office of Autism Research Coordination

Executive Secretary, IACC

National Institute of Mental Health

IACC Full Committee Meeting

October 26, 2016

# 2016 Summary of Advances Process

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- **The committee has been receiving quarterly data calls for submission of nominations**
- **Submitted nominations are discussed at each meeting; nominations require a written justification**
- **Issues:**
  - **Few nominations received; some Question areas not covered well**
  - **Will those areas be covered in the final data call in December?**
  - **All nominations do not have a justification; do we want to keep that requirement?**

# 2016 Summary of Advances Process

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## End of year process:

- **Final nominations for 2016 submitted in December; discussed in January (if large number of submissions, we can either set aside more time for discussion or not discuss all nominations)**
- **Then committee voting process to select top 20 advances? Or certain number of advances per Question to ensure coverage of all questions?**
- **OARC to provided short, lay-friendly summaries of the selected articles, as previously?**