

# **IACC Update**

## **April 2011**

**Thomas Insel, M.D.**

Director, National Institute of Mental Health and Chair, IACC  
IACC Full Committee Meeting – April 11, 2011

# When should I be concerned? How can I understand what is happening?

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ARCH GEN PSYCHIATRY/VOL 68 (NO. 1), JAN 2011      WWW.ARCHGENPSYCHIATRY.COM

## Preference for Geometric Patterns Early in Life as a Risk Factor for Autism

*Karen Pierce, PhD; David Conant; Roxana Hazin, BS; Richard Stoner, PhD; Jamie Desmond, MPH*

J Autism Dev Disord  
DOI 10.1007/s10803-011-1213-1

## New Autism Diagnostic Interview-Revised Algorithms for Toddlers and Young Preschoolers from 12 to 47 Months of Age

So Hyun Kim · Catherine Lord

## Atypical neural networks for social orienting in autism spectrum disorders

Deanna J. Greene<sup>a,\*,1</sup>, Natalie Colich<sup>b,c</sup>, Marco Iacoboni<sup>b,c</sup>, Eran Zaidel<sup>a</sup>,  
Susan Y. Bookheimer<sup>d</sup>, Mirella Dapretto<sup>b,c</sup>

NeuroImage 56 (2011) 354–362

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

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ACTA PSYCHIATRICA  
SCANDINAVICA

## Review

# Prevalence of autism according to maternal immigrant status and ethnic origin

**M.-J. Dealberto**

Department of Community Health and Epidemiology,  
Queen's University, Kingston, ON, Canada

*Acta Psychiatr Scand* 2011: 1–10

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DOI: 10.1111/j.1600-0447.2010.01662.x

ACTA PÆDIATRICA  
NURTURING THE CHILD

## Severe vitamin D deficiency in pregnant women of Somali origin living in Sweden

Maria Säaf (maria.saaf@ki.se)<sup>1,2</sup>, Elisabeth Fernell<sup>3</sup>, Frida Kristiansson<sup>4</sup>, Martina Barnevik Olsson<sup>5</sup>, Sven A Gustafsson<sup>6</sup>, Gunnel Bågenholm<sup>7</sup>

2011 **100**, pp. 612–614

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

NATURE |

## *Shank3* mutant mice display autistic-like behaviours and striatal dysfunction

João Peça<sup>1,2\*</sup>, Cátia Feliciano<sup>1,3\*</sup>, Jonathan T. Ting<sup>1</sup>, Wenting Wang<sup>1</sup>, Michael F. Wells<sup>1</sup>, Talaighair N. Venkatraman<sup>4</sup>, Christopher D. Lascola<sup>1,4</sup>, Zhanyan Fu<sup>1,5,6</sup> & Guoping Feng<sup>1,6,7</sup>

OPEN ACCESS Freely available online

February 2011 | Volume 6 | Issue 2 | e16715

 PLOS ONE

## Autism and Increased Paternal Age Related Changes in Global Levels of Gene Expression Regulation

Mark D. Alter<sup>1\*</sup>, Rutwik Kharkar<sup>1</sup>, Keri E. Ramsey<sup>2</sup>, David W. Craig<sup>2</sup>, Raun D. Melmed<sup>3</sup>, Theresa A. Grebe<sup>3</sup>, R. Curtis Bay<sup>3</sup>, Sharman Ober-Reynolds<sup>3</sup>, Janet Kirwan<sup>3</sup>, Josh J. Jones<sup>3</sup>, J. Blake Turner<sup>4</sup>, Rene Hen<sup>5</sup>, Dietrich A. Stephan<sup>2</sup>

## Investigating synapse formation and function using human pluripotent stem cell-derived neurons

Ji-Eun Kim<sup>a</sup>, Matthew L. O'Sullivan<sup>a</sup>, Christopher A. Sanchez<sup>a</sup>, Minju Hwang<sup>a</sup>, Mason A. Israel<sup>b</sup>, Kristen Brennan<sup>c</sup>, Thomas J. Deerinck<sup>d</sup>, Lawrence S. B. Goldstein<sup>b</sup>, Fred H. Gage<sup>c</sup>, Mark H. Ellisman<sup>d</sup>, and Anirvan Ghosh<sup>a,1</sup>

PNAS | February 15, 2011 | vol. 108 | no. 7 | 3005–3010

# Which treatments and interventions will help?

## PEDIATRICS®

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project

### **A Systematic Review of Early Intensive Intervention for Autism Spectrum Disorders**

Zachary Warren, Melissa L. McPheeters, Nila Sathe, Jennifer H. Foss-Feig, Allison Glasser and Jeremy Veenstra-VanderWeele

*Pediatrics* published online Apr 4, 2011;

DOI: 10.1542/peds.2011-0426

Lovaas and Early Start model were the only ones with positive effects

### **A Systematic Review of Medical Treatments for Children With Autism Spectrum Disorders**

Melissa L. McPheeters, Zachary Warren, Nila Sathe, Jennifer L. Bruzek, Shanthi Krishnaswami, Rebecca N. Jerome and Jeremy Veenstra-VanderWeele

*Pediatrics* published online Apr 4, 2011;

DOI: 10.1542/peds.2011-0427

Risperidone and aripiprazole positive effects for repetitive behaviors but significant adverse effects

### **A Systematic Review of Secretin for Children With Autism Spectrum Disorders**

Shanthi Krishnaswami, Melissa L. McPheeters and Jeremy Veenstra-VanderWeele

*Pediatrics* published online Apr 4, 2011;

DOI: 10.1542/peds.2011-0428

# Where can I turn for services?

THE JOURNAL OF THE AMERICAN DENTAL ASSOCIATION



## **Applied behavior analysis: Behavior management of children with autism spectrum disorders in dental environments**

Purnima Hernandez and Zachary Ikkanda  
*J Am Dent Assoc* 2011;142;281-287

PEDIATRIC DENTISTRY V 33 / NO 1 JAN / FEB 11

## Scientific Article



### **Unmet Dental Needs and Barriers to Care for Children with Significant Special Health Care Needs**

Linda P. Nelson, DMD, MSc<sup>1</sup> • Anne Getzin, BA<sup>2</sup> • Dionne Graham, PhD<sup>3</sup> • Jing Zhou, MS<sup>4</sup> • Elke M. Wagle, DMD<sup>5</sup> • Jessie McQuiston, DMD<sup>6</sup> • Suzanne McLaughlin, MD, MSc<sup>7</sup> • Akshay Govind, DMD<sup>8</sup> • Matthew Sadof, MD<sup>9</sup> • Noelle L. Huntington, PhD<sup>10</sup>

### ARTICLE

## **Post-High School Service Use Among Young Adults With an Autism Spectrum Disorder**

Paul T. Shattuck, PhD; Mary Wagner, PhD; Sarah Narendorf, MSW; Paul Sterzing, MSSW; Melissa Hensley, MSW

ARCH PEDIATR ADOLESC MED/VOL 165 (NO. 2), FEB 2011 WWW.ARCHPEDIATRICS.COM

# What other infrastructure and surveillance needs must be met?

Kumar *et al.* *BMC Medical Genomics* 2011, 4:15  
<http://www.biomedcentral.com/1755-8794/4/15>

AutDB is the industry name for the SFARI Base (MindSpec, Inc.)

**DATABASE**

**Open Access**

## Animal model integration to AutDB, a genetic database for autism



Ajay Kumar, Rachna Wadhawan, Catherine Croft Swanwick, Ravi Kollu, Saamyendra N Basu, Sharmila Banerjee-Basu\*

## A Genotype Resource for Postmortem Brain Samples from the Autism Tissue Program

Richard F. Wintle, Anath C. Lionel, Pingzhao Hu, Stephen D. Ginsberg, Dalila Pinto, Bhooma Thiruvahindrapduram, John Wei, Christian R. Marshall, Jane Pickett, Edwin H. Cook, and Stephen W. Scherer

INSAR

Autism Research 3: 1–9, 2010

Describes “Mouse Genome Informatics” resource which integrates genetic, genomic, and phenotypic data for the lab mouse

**Journal of Biomedical Informatics** **ARTICLE IN PRESS**

## Autism candidate genes via mouse phenomics

Terrence F. Meehan<sup>\*,1</sup>, Christopher J. Carr<sup>1,2</sup>, Jeremy J. Jay, Carol J. Bult, Elissa J. Chesler, Judith A. Blake

*The Jackson Laboratory, 600 Main St., Bar Harbor, ME 04609, USA*