Wednesday – July 16, 2014

<table>
<thead>
<tr>
<th>3:30pm – 5:00pm</th>
<th>Grand Ballroom</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Kick-Off to the 14th International Fragile X Conference</strong>-</td>
<td></td>
</tr>
<tr>
<td>Come meet the NFXF Board of Directors, the NFXF team, the CSN leaders, and some of the Fragile X doctors and other professionals. We will walk you through the conference agenda and the app that contains all the conference information. We will also tell you about the daily Scavenger Hunt where you can win prizes. You will have a chance to meet and get to know parents from your area or region of the US/world, and personally meet the “rock star” doctors and professionals from around the world.</td>
<td></td>
</tr>
<tr>
<td>The Welcome Reception will follow in the same room.</td>
<td></td>
</tr>
</tbody>
</table>

Note: The abstracts presented in each of the Basic Science (BS), the Clinical Science (CS), and the Poster (P) Sessions are listed on the day they are scheduled (they follow the table for each day).

Note: There are a series of sessions for the Self Advocates (people who have FXS), ages 17 and older. They all take place in the Harbor room, except for the last session which will be held in the Pacific room. While, all are welcome, we ask that parents use their discretion in whether their child should attend on his/her own, or whether the parent should accompany him/her. These sessions are in the Harbor Room.
<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30am –</td>
<td>Grand Ballroom</td>
<td><strong>Keynote: Clinical Trials of New Medicines Targeting Brain Mechanisms in Fragile X Syndrome</strong>, Randi Hagerman, MD, Elizabeth Berry-Kravis, MD, PhD</td>
</tr>
<tr>
<td>9:30am –</td>
<td></td>
<td><strong>First Morning Break</strong></td>
</tr>
<tr>
<td>9:45am –</td>
<td>BS-1 CS-3</td>
<td>15795 <strong>From FX101 to Agenda Planning</strong></td>
</tr>
<tr>
<td>11:00am</td>
<td></td>
<td><strong>Medications in Fragile X Part A: Introduction &amp; Strategies to Set and Monitor Treatment Goals</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Medications</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Being Prepared for Adulthood with Fragile X Syndrome</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Revision Actualizada Del Espectro X-Fragil - An Updated Review Of The Fragile X-Associated Disorders</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>From Zero To Hero, You Can Do It Too</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>I am an Aunt. How can I Help?</strong></td>
</tr>
<tr>
<td>11:15am</td>
<td></td>
<td><strong>Second Morning Break</strong></td>
</tr>
<tr>
<td>11:15am</td>
<td>BS-2 CS-8</td>
<td>15999 <strong>Finding the Magic in Your Community</strong></td>
</tr>
<tr>
<td>12:30pm</td>
<td></td>
<td><strong>Role Of Hyperarousal In The Classroom</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Making Sense of Your Sensory System</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Neurological and Endocrine Involvement in Women with the Fragile X Premutation</strong></td>
</tr>
<tr>
<td>12:30pm</td>
<td></td>
<td><strong>Panel- All About Our Girls</strong></td>
</tr>
<tr>
<td>2:30pm</td>
<td></td>
<td><strong>Lunchtime Workshops for Moms, Dads, Parents of Children who are Non-Verbal, Siblings, Grandparents, FXTAS Families – Grand Ballroom</strong></td>
</tr>
</tbody>
</table>
### Thursday Afternoon, July 17, 2014

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:30pm – 3:45pm</td>
<td><strong>Behavior</strong> 15841 Setting The Stage: Effective Strategies To Support Behavior And Learning In School-Aged Students Barbara Haas-Givler</td>
</tr>
<tr>
<td></td>
<td>15723 FX Max: A Helpful FX Planning Tool Tracy Stackhouse, Sarah Scharfenaker</td>
</tr>
<tr>
<td></td>
<td>15755 “First Words” flash cards: A tool to promote early reading skills Debra Burgess, Gail Spiridigliozzi, Ave Lachiewicz, Maria Diez-Juan, Andrea Schneider</td>
</tr>
<tr>
<td></td>
<td>15661 Planning Successful Strategies to Support Healthy Routines for Young Children with FXS in the Home Jennifer Epstein <strong>New Families</strong></td>
</tr>
<tr>
<td></td>
<td>15777 Disaster Preparedness: A Discussion for Better Outcomes Joseph Garera, Matthew Rhodes, Jayne Dixon Weber <strong>New Families</strong></td>
</tr>
<tr>
<td>3:45pm – 4:00pm</td>
<td>Afternoon Break</td>
</tr>
<tr>
<td>4:00pm – 5:15pm</td>
<td><strong>Education</strong> 15675 Evaluating Children With Fragile X Syndrome For Educational Planning And Research Gail Spiridigliozzi, Jennifer Epstein <strong>Life Skills</strong></td>
</tr>
<tr>
<td></td>
<td>15657 What Works and Why? Managing Anxiety with Successful Intervention Tools and Strategies Jennifer Epstein <strong>Life Skills</strong></td>
</tr>
<tr>
<td></td>
<td>15767 Medications for Fragile X Part B: Hyperactivity, Inattention, Sleep Problems, and Aggression Ave Lachiewicz, Carol Delahunty <strong>Medications</strong></td>
</tr>
<tr>
<td></td>
<td>15643 OT, SLP, AT &amp; the IEP...Making Sense of the Alphabet Soup Laura Greiss Hess, Kerrie Lensons Chitwood <strong>New Families</strong></td>
</tr>
<tr>
<td></td>
<td>15652 Using An Evidence-based Approach to Understand and Treat Behavioral Issues in Fragile X Syndrome Lauren Moskowitz, Scott Hall <strong>Behavior</strong></td>
</tr>
<tr>
<td></td>
<td>15771 Emergencies Do Not Have To Be A Disaster: Tips On How To Navigate The Unexpected Medical Encounter Melissa Zolecki <strong>Life Skills</strong></td>
</tr>
<tr>
<td></td>
<td>15675 Evaluating Children With Fragile X Syndrome For Educational Planning And Research Gail Spiridigliozzi, Jennifer Epstein <strong>Life Skills</strong></td>
</tr>
<tr>
<td></td>
<td>15657 What Works and Why? Managing Anxiety with Successful Intervention Tools and Strategies Jennifer Epstein <strong>Life Skills</strong></td>
</tr>
<tr>
<td></td>
<td>15767 Medications for Fragile X Part B: Hyperactivity, Inattention, Sleep Problems, and Aggression Ave Lachiewicz, Carol Delahunty <strong>Medications</strong></td>
</tr>
<tr>
<td></td>
<td>15643 OT, SLP, AT &amp; the IEP...Making Sense of the Alphabet Soup Laura Greiss Hess, Kerrie Lensons Chitwood <strong>New Families</strong></td>
</tr>
<tr>
<td></td>
<td>15652 Using An Evidence-based Approach to Understand and Treat Behavioral Issues in Fragile X Syndrome Lauren Moskowitz, Scott Hall <strong>Behavior</strong></td>
</tr>
<tr>
<td></td>
<td>15771 Emergencies Do Not Have To Be A Disaster: Tips On How To Navigate The Unexpected Medical Encounter Melissa Zolecki <strong>Life Skills</strong></td>
</tr>
</tbody>
</table>

---

Thursday Evening – Aquarium of the Pacific
Buses load at 6:15pm
Thursday Groupings – List of Specific Abstracts Within Each Grouping

Unless otherwise specified – the 75 minute session will be evenly divided by the number of talks listed. For example, if there are 3 talks listed, each one is allotted 25 minutes, and that includes Q&A. The order of the talks are as shown below.

Basic Science Sessions

BS-1. FMRP & Molecular/Cellular Studies/Animal Models #1
1. 15738  Alternative Splicing of the FMR1 Gene: Implications for FMR1 Function in Premutation Carriers
   Flora Tassone
2. 15659  Quantification of FMRP in Mouse Brain by a Capture Immunoassay
   Tatyana Adayev
3. 15752  Aberrant Cofilin Signaling in a Mouse Model of Fragile X Syndrome
   Alexander Pyronneau

BS-2. FMRP & Molecular/Cellular Studies/Animal Models #2
1. 15584  Abnormal Myelination during Brain Development in Fragile X Mice
   David L. Jiang
2. 15570  Viral Vector-Mediated FMR1 Gene Delivery in Fragile X Knockout Mice
   David R. Hampson, Co-Presenter: Shervin Gholizadeh
3. 15616  A Novel Role for SOX2 and SOX9 in Aberrant Embryonic Neurogenesis of Fragile X Syndrome
   Michael Telias

BS-3. FXTAS/FXPOI Research/Animal Models
1. 15602  Unconventional Translation at CGG Repeats: Mechanisms, Meanings and Roles in Disease Pathogenesis
   Peter Todd
2. 15603  TDP-43 Suppresses CGG Repeat-induced Neurotoxicity through Interactions with HnRNP A2/B1
   Peter Todd, Co-Presenter: Fang He
3. 15774  Insights from Oocytes: The Causes and Consequences of Repeat Expansion in the FMR1 Gene
   Karen Usdin
4. 15621  RNA and Protein Gain-of-Function in FXTAS
   Chantal Sellier
5. 15737  Molecular Phenotype in Premutation Carriers: Altered Expression of Synaptic Signaling Proteins
   Dalyir Pretto

Clinical Science Sessions

CS-3. Arousal, Anxiety and Attention in Fragile X across the Lifespan
1. 15707  - Physiological Arousal And Social-Communication Skills In Boys With Fragile X Syndrome And Autism
   Jessica Klusek
2. 15760  - Longitudinal Trends And Clinical Implications Of Social Approach Behaviors Among Infants At High Risk For Autism
CS-4. Behavior and FXS
1. 15726 The Relationship of Early Parenting to Later Behavior Problems in Children with FXS
   *Steven Warren, Co-Presenter: Laura Hahn*

2. 15757 Behavioral Phenotype of Fragile X Syndrome: Longitudinal Study of Adolescence and Adulthood
   *Leann Smith*

3. 15765 Internalizing and Externalizing Symptoms from Childhood through Adulthood for Individuals with FXS
   *Leann Smith, Co-Presenters: Marsha Maitick, Jan Greenberg, Steven Warren, Nancy Brady*

CS-5. Narrative Language
1. 15704 Narrative Language Competence 1: Story Completeness in Males with FXS
   *Lauren Bullard*

2. 15733 Narrative Language Competence 2: Story Organization in Males with FXS
   *Mandee Chela*

3. 15750 Narrative Language Competence 3: The Use of Narrative Evaluations by Males with FXS
   *Robyn Tempero Feigles*

4. 15716 The Effect Of Sertraline On Language Development In FXS Using A Passive-Viewing Eyetracking Task
   *Jessica Burris, Co-Presenter: Susan Rivera*

CS-8. Mavoglurant
1. 15685 Mavoglurant In Fragile X Syndrome: Results From Two Phase II Randomized, Double-Blind Trials
   *George Apostol – Oral Presentation*

2. 15700 Mavoglurant In Fragile X Syndrome: Results From Two Phase II Randomized, Double-Blind Trials
   *George Apostol – Poster Presentation – 2 posters*

3. 15697 Mavoglurant In Adolescents With Fragile X Syndrome: Clinical Global Impression-Improvement Analyses
   *George Apostol – Poster Presentation*

4. 15667 A Unique iPad® Application And Assessment Tool For Evaluating Reading Skills in FXS
   *George Apostol – Poster Presentation*

CS-11. Premutation Issues #1
1. 15669 Maternal Stress Among Women Who Carry the FMR1 Premutation Who Are Mothers Of A Child With Fragile X
   *Emily Allen*

2. 15764 Pupil Dilation As An Index Of Autonomic Arousal In Women With The FMR1 Premutation
   *Abigail Hogan-Brown*
3. 15756  Biobehavioral Correlates of Depression and Anxiety in Women with the FMR1 Premutation  
*Bridgette Tonnsen, Co-Presenter: Jane Roberts*

4. 15736  Social Language Use in FMR1 Premutation Carriers  
*Nell Maltman*

**Posters**

P-1

1. 15749  A Bioinformatics Tool for Tandem Repeat Extraction and Length Estimation  
*Jun Wang*

2. 15641  Spaced Training Rescues Memory and Synaptic ERK1/2 Signaling in a Mouse Model of Fragile X Syndrome  
*Ronald Seese*

3. 15630  Modulation of the GABAergic Pathway for the Treatment of Fragile X Syndrome  
*Reymundo Lozano*

4. 15604  Impaired Sensorimotor Gating in FMR1 Knock Out and Fragile X Premutation Model Mice  
*Peter Todd, Co-Presenter: Abagail J Renoux*

5. 15729  Association of the MAOA Promoter Polymorphism with Brain Structure Volumes in both Autism and FXS  
*Heather Cody Hazlett*

6. 15725  Upregulation of eIF4E in a Female with Fragile X Syndrome and Tuberous Sclerosis  
*Dalyir Pretto*

P-3

1. 15637  Developmental Delay in Female Carriers of the Fragile X Premutation  
*Maryam Jabbari Amiri*

2. 15656  Eye Tracking as a Potential Screening Tool for FXTAS in Fragile X Premutation Carriers  
*Jonathan Polussa*

3. 15691  High Normal/Intermediate FMR1 CGG Repeats Variation By Race-Ethnicity In Women With Normal Fertility  
*Lisa Pastore*

4. 15601  AGG Interruption Testing for Fragile X Carriers: Experiences of a Testing Laboratory  
*Jennifer Skeen*

5. 15632  Association between Macroorchidism and Intelligence in FMR1 Premutation Carriers  
*Reymundo Lozano*

6. 15758  Mood and Anxiety Disorders in Women with the Fragile X Premutation  
*Amy Gaines*

P-5

1. 15600  Perceptions & Expectations of FXS Caregivers Toward the Next Generation of Targeted Treatments  
*Roxanne Almas*
2. 15622 Use of Psychiatric Medications in Young Males with FXS
   David Benjamin, Mandeep Chela

3. 15640 Lovastatin as a Promising Candidate for Behaviour Treatment in Fragile X Syndrome
   Artuela Çaku

4. 15644 Sertraline Treatment for Young Children with FXS – Preliminary Findings
   Laura Greiss Hess

5. 15645 Family Contexts: A Critical Consideration in Clinical Trials
   Laura Greiss Hess

6. 15709 Characteristics of Children with FXS at Clinics in a Nat’l Consortium: A Focus on Age-Related Issues
   Sharon Kidd

P-6

1. 15568 School-Age Boys with FXS in Educational Settings: An Ethnographic Approach
   Carsten Goebell

2. 15721 Technology use in Individuals with FXS: A Study to Inform the Design of a Decision Support App
   Julia Kish Doto, Co-Presenters: Lauren McCormack, Robert Furberg

3. 15751 Web Based Reading Intervention for Children with FXS
   Kerrie Chitwood, Co-Presenter: Anne Hoffmann

4. 15693 Assessing Mealtime Behaviors in Children and Adolescents with Fragile X Syndrome
   Katherine Pawlowski, Co-Presenters: Jonathan Picker, Susan Skees Hermes

5. 15766 Service Provision Models in Fragile X Clinics
   Diane Treadwell-Deering, Co-Presenters: Sherry Vinson
<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Session Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30am – 9:30am</td>
<td>15743 – Grand Ballroom</td>
<td>Keynote: Advances in Understanding Premutation Involvement in Women and Advice to Stay Healthy – Randi Hagerman, MD</td>
<td></td>
</tr>
<tr>
<td>9:30am – 9:45am</td>
<td>15582 – CS-14</td>
<td>How to Keep Burning without Burning Out!!!</td>
<td>Tim Geels, Joseph Garera</td>
</tr>
<tr>
<td>9:45am – 11:00am</td>
<td>15816 – CS-10</td>
<td>Language Development in Children with Fragile X Syndrome</td>
<td>Vicki Sudhalter, New Families</td>
</tr>
<tr>
<td>11:00am – 11:15am</td>
<td>15710 – CS-2</td>
<td>A Multidisciplinary Approach to Understanding Hyperarousal in Fragile X Syndrome</td>
<td>Tracy Stackhouse, Hands-On Hyperarousal Workshop: What it feels like to be HYPERAROUSED!</td>
</tr>
<tr>
<td>11:15am – 12:30pm</td>
<td>15699 – CS-9</td>
<td>Health Care for Individuals with FXS: Understanding Access, Quality, and Decision-Making Ability</td>
<td>Melissa Raspa, Lauren McCormack, Adrienne Villagomez, Tracy Stackhouse, Sarah Scharfenaker</td>
</tr>
<tr>
<td>12:30pm – 2:00pm</td>
<td>Grand Ballroom</td>
<td>Friday Lunch</td>
<td></td>
</tr>
<tr>
<td>Time</td>
<td>Session</td>
<td>Room</td>
<td>Title</td>
</tr>
<tr>
<td>--------------</td>
<td>---------</td>
<td>------</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td>2:00pm – 3:15pm</td>
<td>CS-6</td>
<td>CS-1</td>
<td>15942 International Groups and Clinics</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>15762 Bringing You Protected Tomorrows: Your Journey Through an Eight Step Special Needs Planning Program</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>15715 Managing Hyperarousal and Anxiety: It takes a Village!</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>15688 Problem Solving Hyperarousal</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>15679 Understanding and Treating Behavioral Issues</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>15642 Climbing the Branches of a Family Tree: Sharing the Diagnosis of Fragile X Syndrome</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>15654 Diagnosis Fragile X, So Now Where Do We Go Next</td>
</tr>
<tr>
<td>3:15pm – 3:30pm</td>
<td></td>
<td></td>
<td>Afternoon Break</td>
</tr>
<tr>
<td>3:30pm – 4:45pm</td>
<td>CS-12</td>
<td>CS-12</td>
<td>15626 Strengthening Families through Innovative Parent Support</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>15546 Neurology, Behavior, Stimulus, Trauma and Other Scary Words!!</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>15658 Support for Successful Toilet Training</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>15619 A Home of One’s Own: Meeting the Challenges of Independent Living</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>15701 Hands on Workshop: Strategies to Manage Hyperarousal in the Home, Classroom and Community</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>15748 Intentional Communities for Adults with Fragile X Syndrome</td>
</tr>
<tr>
<td>3:15pm – 3:30pm</td>
<td></td>
<td></td>
<td>Afternoon Break</td>
</tr>
<tr>
<td>4:45pm – 5:00pm</td>
<td>CS-12</td>
<td>CS-12</td>
<td>15658 Support for Successful Toilet Training</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>15619 A Home of One’s Own: Meeting the Challenges of Independent Living</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>15701 Hands on Workshop: Strategies to Manage Hyperarousal in the Home, Classroom and Community</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>15748 Intentional Communities for Adults with Fragile X Syndrome</td>
</tr>
<tr>
<td>5:00pm – 6:00pm</td>
<td></td>
<td></td>
<td>Evening Poster Reception - 5:00 – 6:00 pm</td>
</tr>
</tbody>
</table>
Friday Groupings – List of Specific Abstracts Within Each Grouping

Unless otherwise specified – the 75 minute session will be evenly divided by the number of talks listed. For example, if there are 3 talks listed, each one is allotted 25 minutes, and that includes Q&A. The order of the talks are as shown below.

Clinical Science Sessions
CS-1. Fragile X Premutation Continuum of Molecular, Cognitive and Behavioural Changes
1. 15739 - Fragile X-Related Epigenetic Elements and Cognitive–Affective Symptoms in the Female PM
   Kim Cornish
2. 15660 - Improved Relative And Absolute Quantification of RNA toxicity in PM Related Disorders
   David Godler
3. 15728 - Brain Activation To Social Evaluation Using An Implicit Trust Task In Fragile X Premutation Carriers
   Emily Sievers, Co-Presenter: Susan Rivera
4. 15722 - Women with Fragile X-associated Tremor/Ataxia Syndrome
   Andrea Schneider
5. 15674 - Mood and Anxiety Disorders in Mothers with the FMR1 Premutation: Trajectories and Predictors
   Jane Roberts

1. 15730 - Self-Determination in Adolescents & Adults with FXS: Findings of Self-Report and Parent Perspective
   Adrienne Villagomez
2. 15683 - Planning for the Future: Guardianship and Fragile X Syndrome
   Melissa Raspa
3. 15672 - Daily Life of Men with FXS in the Transitioning Years, Young Adulthood, And Middle Adulthood
   Sigan Hartley

CS-6. Autism and FX Studies
1. 15680 - Autism and Anxiety in Males with Fragile X Syndrome: Neurobehavioral Profiles from a Parent Survey
   Walter Kaufmann
2. 15585 - Longitudinal Repetitive Behavior Changes in Fragile X Syndrome and Autism Spectrum Disorder
   Ashley Stark, Co-Presenters: Jennifer L. Bruno, Amy A. Lightbody, Eve-Marie Quintin, Allan L. Reiss
3. 15625 - Characterizing Autism Spectrum Disorder in Fragile X Syndrome: A Longitudinal Perspective
   Michelle Lee
4. 15682 - Changes in Diagnostic Criteria and the Prevalence of Autism Spectrum Disorders in Fragile X Syndrome
   Anne Wheeler, Co-Presenters: Adrienne Villagomez, Melissa Raspa, Anne Edwards, Donald Bailey

CS-9. FXTAS
1. 15735 - Memantine Effects on Attention in FXTAS: a Double-Blind Brain Potential Study
   Jin-Chen Yang, Co-Presenter: John Olichney
2. 15592 Gait Instability and Mobility Deficits in FXTAS Measured with the Instrumented Timed Up and Go Test
    Joan O'Keefe

3. 15638 Brain Volume Changes in FXTAS and Its Correlation With Neuropsychological Measures and FXTAS Stage
    Zukhrafi Muzar

CS-10. Speech & Language
1. 15773 A Longitudinal Examination of Expressive Language in Males and Females with Fragile X Syndrome
    Angela Thurman

2. 15573 Parent-Implemented Early Language Intervention Delivered by Distance Video-Teleconferencing
    Andrea McDuffie

3. 15651 Enhancing Literacy Skills in Individuals with Fragile X Syndrome
    Anne Hoffmann, Co-Presenters: Kerrie Leorns-Chitwood, Karen Riley

4. 15588 Sex Differences in Pragmatic Language and Theory of Mind in Children with Fragile X Syndrome
    Christie Stiehl

CS-12. Premutation Issues #2
1. 15687 Early Development in Infants and Toddlers with an FMR1 Premutation
    Anne Wheeler

2. 15734 Eye Movements Reveal Subtle Inhibitory Control Impairments In Fragile X Carriers
    Yingratana McLennan, Co-Presenter: Laura Yoshida

3. 15724 Examination Of Social Cognition And Broad Autism Phenotype In Adults With The FMR1 Premutation
    Andrea Schneider

1. 15596 Longitudinal Changes In Brain Structure In Fragile X Syndrome
    Jennifer L. Bruno, Co-Presenters: Ashley Stark, Amy A. Lightbody, Allan L. Reiss

2. 15574 Offering Fragile X Carrier Testing To Women: Comparing Prenatal And Preconception Screening
    Jonathan Cohen

CS-14. Molecular Studies and Screening
1. 15695 Fragile X AGG Analysis Provides New Risk Predictions for 45-90 Repeat Alleles
    W. Ted Brown

2. 15633 Genomic Studies in Fragile X Premutation Carriers
    Reymundo Lozano

3. 15731 Prenatal Studies Suggest Mothers With >80 Repeats Transmit The Normal Allele in 55% of Pregnancies
    Sarah Nolin

4. 15639 Early Detection of Fragile X: Improved Methylation Analysis in Venous Blood and Newborn Blood Spots
    David Godler
1. 15589 Exploring Treatment Strategies for FXS: High-Throughput Drug Screens and Potential Biomarkers
   Daman Kumari

2. 15628 Quantification of FMRP in Human Brain by a Multiplex Capture Immunoassay
   Giuseppe LaFauci

3. 15662 Distinctive Behavioral and Cellular Responses to Fluoxetine in the Mouse Model for Fragile X Syndrome
   Maija Castrén, Co-Presenters: Marko Uutela, Jesse Lindholm, Tomi Rantamäki, Vootele Voikar

4. 15712 Astrocyte-Secreted TSP-1 Corrects Synaptic and Spine Phenotypes in the Fragile X Mouse Model
   Connie Cheng

5. 15713 SOX2 Expression is Increased in Neural Precursor Cells of the Fragile X Mouse Model
   Mary Souri

6. 15894 Fragile X Mental Retardation Protein and miR-125a Association in PSD-95 mRNA Translation Regulation
   Snezana Stefanovic

7. 15636 Normalizing Critical Phenotypes in FXS Using Novel Inhibitors of Small GTPases
   Luís Martinez

---

1. 15587 The Relationship between Behavior Problems and Executive Function Tasks in Fragile X Syndrome
   Kylee Miller, Co-Presenters: Caroline deSaussure, Caley Kropp, Anne Wheeler, Donald Bailey

2. 15634 Improving IQ Measurement in Fragile X Syndrome: Using True Deviation from Population Norms
   Stephanie Sansone

3. 15686 Conceptual Overview of Decisional Capacity in Fragile X Syndrome
   Caley Kropp

4. 15692 Sensory Behaviors in Children and Adults with Fragile X Syndrome
   Anne Edwards

5. 15718 Distress with Medical Procedure in Fragile X – Identifying the Need for Effective Supports
   Nanastasia Welnick

6. 15740 Functional Analysis and Treatment of Severe Problem Behavior in Fragile X Syndrome
   Patricia F. Kurtz

7. 15741 Improving Behavioral Self-Regulation in FXS and FXD with Breath and Heart Rate Variability Training
   Patrick Adams

8. 15753 Differences in EEG Frequency Patterns in Fragile X Syndrome
   Andrea Schneider
9. 15754  Play Skills of Toddlers with Fragile X Syndrome: Associations with Language Development  
   Stephanie Summers

10. 15768  Longitudinal Development of Expressive and Receptive Language in Fragile X Syndrome  
   Amy A. Lightbody

**P-7**

1. 15763  Examining Autism Symptomatology in Infants with Fragile X Syndrome and Autism Infant Siblings  
   Kelly Caravella

2. 15548  High Resolution FMR1 Molecular Assessments in a Cohort of Fragile X Full- and Premutation Patients  
   Dejan Budimirovic

3. 15653  Novel Epigenetic Biomarkers of Cognitive Impairment in Males and Females with an FMR1 Expansion  
   Marta Arpone

4. 15583  Cholesterol Levels in Fragile X Syndrome  
   Elizabeth Berry-Kravis

5. 15581  Effect of Antipsychotic use on Prevalence of Overweight/Obesity in Fragile X Syndrome  
   Elizabeth Berry-Kravis

6. 15572  Characterization of Fragile X Syndrome Caused by FMR1 Deletions  
   Kaitlin Young, Co-Presenter: Deborah Barbouth

7. 15746  Therapeutic Horseback Riding and Hippotherapy  
   Carolyn Ybarra

**P-8**

1. 15553  The Need for Social Skills Therapy for Students with Fragile X Syndrome in Transitions Programs  
   Carol Szymanski, Co-Presenter: Gail Harris-Schmidt

2. 15635  Fragile X Syndrome Phenotype and its Implications on the Stomatognathic Functions  
   Ana Leal

3. 15648  The Role of Autism Symptomatology in Communicative Repair Skill in Boys with Fragile X Syndrome  
   Jamie Barstein

4. 15595  Use of Telemedicine in a Fragile X Clinic  
   Sharyn Lincoln

5. 15629  MiND APPs, an Interactive iPad© Training for Parents of Children with FXS&ASD  
   Maria Diez-Juan, Co-Presenter: Andrea Schneider

6. 15673  From Biomarker to Companion Diagnostics-The Mavoglurant Personalized Medicine Story  
   Sylwia Karwowska

7. 15684  Long-Term Safety Of Mavoglurant In Fragile X Syndrome: Results From Multi-Center Open-Label Studies  
   Edward Kim
8. **EXPLAIN Fragile X Syndrome Disease Registry: Study Design**  
*Marc Brinkman*

9. **Mavoglurant In Fragile X Syndrome: Results From Two Phase II Randomized, Double-Blind Trials**  
George Apostol – 2 posters

10. **Mavoglurant In Adolescents With Fragile X Syndrome: Clinical Global Impression-Improvement Analyses**  
George Apostol

11. **A Unique iPad® Application And Assessment Tool For Evaluating Reading Skills in FXS**  
George Apostol
<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Session Title</th>
<th>Speakers</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:30am</td>
<td>First Morning Break</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9:45am –</td>
<td>CS-7</td>
<td>Fragile X Online Registry With Accessible Research Database (FORWARD): Past, Present, and Future</td>
<td>Catharine Riley</td>
</tr>
<tr>
<td>10:00am</td>
<td>CS-7</td>
<td>I Get By With A LOT of Help From My Friends</td>
<td>Paula Fasciano, Holly Usrey-Roos, Melissa Welin</td>
</tr>
<tr>
<td>10:45am</td>
<td>CS-7</td>
<td>Understanding and Treating Language Problems in Children and Adolescents with Fragile X Syndrome</td>
<td>Leonard Abbeduto, Andrea McDuffie</td>
</tr>
<tr>
<td>11:30am</td>
<td>CS-7</td>
<td>Dentistry &amp; FXS</td>
<td>Richard Paul Mungo</td>
</tr>
<tr>
<td>12:00pm</td>
<td>Lunch – On Your Own</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Session Title</th>
<th>Speakers</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:15am</td>
<td>Self Advocates Session –</td>
<td>FXTAS is a Family Affair</td>
<td>Deborah Hall</td>
</tr>
<tr>
<td>11:00am</td>
<td>Second Morning Break</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11:15am</td>
<td>CS-15</td>
<td>Transitions: From Infancy Through The School Years And Beyond</td>
<td>Gail Harris-Schmidt Melissa Zolecki</td>
</tr>
<tr>
<td>11:45am</td>
<td>CS-15</td>
<td>&quot;Mrs. Rogers Neighborhood&quot;-One Mother's Story</td>
<td>Cindi Rogers</td>
</tr>
<tr>
<td>12:15am</td>
<td>CS-15</td>
<td>Married and Unmarried.....with (Fragile X) Children</td>
<td>Diane Simon Smith</td>
</tr>
<tr>
<td>12:45am</td>
<td>CS-15</td>
<td>Medication for Fragile X Part C: Medications for Anxiety, Irritable Behaviors, Aggression</td>
<td>Elizabeth Berry-Kravis</td>
</tr>
<tr>
<td>1:15pm</td>
<td>CS-15</td>
<td>The Sibling Perspective</td>
<td>Kristin Burgess Allegra Chaconas</td>
</tr>
<tr>
<td>2:00pm</td>
<td>Self Advocates Session –</td>
<td>Stretching and Relaxation</td>
<td>Tracy Stackhouse, Mouse Scharfenaker, Alli Cohen</td>
</tr>
</tbody>
</table>
### Saturday Afternoon, July 19, 2014

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
</table>
| 2:00pm – 3:15pm | 15580 Visual Issues in Fragile X  
Rashelle Cohen, Jonathan Cohen  
15689 Feeding Issues: A Guide to Understand and Improve Feeding Skills for Children with Fragile X Syndrome  
Kristin Burgess  
**New Families** |
|                | 15615 Talking to Students about Fragile X Syndrome  
Holly Usrey-Roos  
**Education** |
|                | TBD                                                                 |
Sarah Scharfenaker, Tracy Stackhouse  
15720 My Hands Can Write! My Fingers Can Tie!  
Tracy Stackhouse, Sarah Scharfenaker  
**Life Skills** |
|                | 16008 Panel – Sexuality, Etc  
Facilitator: Brenda Finucane  
Laureen Majeske, Sulie Tulio, Luisa Rivas |

Note: This session will be held in a different room: Pacific

### Sunday Morning, July 20, 2014

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
</table>
| 9:00 am – 10:15 am | 16013 - Grand Ballroom  
Medication Panel – Come Get Answers To Your Medication Questions!  
Randi Hagerman, Elizabeth Berry-Kravis, Craig Erickson, Ave Lachiewicz, Nicole Tartaglia, Gary Feldman |
| 10:30 am – 11:45 am | 16011 - Grand Ballroom  
Behavior Panel – Come Get Answers To Your Behavior Questions!  
Tracy Stackhouse, Sarah Scharfenaker, Vicki Sudhalter, Randi Hagerman, Elizabeth Berry-Kravis, David Hessl |
Saturday Groupings – List of Specific Abstracts Within Each Grouping

Unless otherwise specified – the 75 minute session will be evenly divided by the number of talks listed. For example, if there are 3 talks listed, each one is allotted 25 minutes, and that includes Q&A.

CS-7. Fragile X Syndrome
1. 15668  Climbing the Branches of a Family Tree: Diagnosis of Fragile X Syndrome
   Julia Bassell
2. 15681  Early Motor And Socio-Communicative Development In Fragile X Syndrome: An Infant Video Analysis
   Walter Kaufmann
3. 15698  Numerical Processing in FXS: An Attention-Shifting Analysis
   Emily Owen, Co-Presenter: Susan Rivera
4. 15759  Aggression and Self-Injurious Behaviors in Individuals with Fragile X Syndrome
   Anne Wheeler

CS-15. Outcome Measures in FXS
1. 15627  Cognitive Outcome Measures for Fragile X Syndrome: Experience with the NIH Toolbox Cognitive Battery
   David Hessl
2. 15623  Amyloid Precursor Protein: Analysis in Fragile X-Associated Versus Idiopathic Autism
   Craig Erickson
3. 15747  Reliability And Validity Of A Markerless Motion Capture System To Quantify Hyperactivity in FXS
   Joan O'Keefe
4. 15727  Lovastatin Corrects ERK-Pathway Hyperactivation in Fragile X Individuals
   David Pellerin

Posters

P-9
1. 15537  Masks, Bowls, Pots & Planters: Pottery as a Path to Self-Expression
   Nancy Abrams
2. 15744  Organic Gardening for Teens and Adults with Disabilities
   Carolyn Ybarra
3. 15606  Healing From The Inside Out: What Every Carrier Needs To Know
   Franti Mars