

Administrative Core
Progress Report
CIFASD Meeting
Indianapolis, In
January 12-14, 2005

Edward P. Riley
San Diego State University

Reorganized Components

Cores:

- **ADMINISTRATIVE CLUSTER E Riley**
 - Administrative Cluster, Riley
 - Pilot Project Core, Riley
 - Informatics Core, Stewart
- **CLINICAL CLUSTER KL Jones**
 - Dysmorphology Core - Jones
 - Facial Imaging Core - Foroud
- **BEHAVIORAL (CNS) CLUSTER S Mattson**
 - Neurobehavioral Core E. Riley (SDSU)
 - Brain Imaging Core E Sowell
- **BASIC SCIENCE CLUSTER M. Charness**

Pilot Projects

Pilot Projects:

- PILOT PROJECT 1 – FASD in the Ukraine. Jones
- PILOT PROJECT 2 – A FASD Epidemiology in Italy. May,
- PILOT PROJECT 3 – Detecting FASD from Neonatal Ultrasound. Streissguth.
- PILOT PROJECT 4 Comparison of Three Diagnostic Modalities in FASD and Related Disorders. L Robinson

Clinical Projects with Behavioral Components

Projects:

- U01: Assessment of Risk Factors for FASD in Moscow, Russia. Christina Chambers, UCSD.
- U01: FASD in San Diego and Moscow. Sarah Mattson, SDSU. **Now includes Finnish project with Autti Ramo.**
- U01: Identification of FASD in South African Children. Sandra Jacobson, Wayne State University.
- U01: An analysis of the topography of cognition in American Indian and South African children with FASD. Philip A. May, University of New Mexico. **Now includes intervention project in S. Africa. Kodituwakku**

Accomplishments

- A consortium website is functioning.
- Regular monthly phone conference calls have been convened.
- Twice annual meetings of the consortium PIs have been convened.
- Administrative core has financed projects when funds were not available in the budget of the project
- We have been approached by scientists in Australia, England, Germany, Japan, and the Reunion Islands about obtaining information about the consortium, our pilot project program, and to provide forms, manuals, etc. to the international research community.
- Administrative Core has been involved in numerous international educational efforts.
 - England - FAS debated in House of Lords
 - Japan - Labeling
- Pilot projects are being solicited and applications are available
- Publications are being put online
- Listservs are in place in cooperation with the Informatics Core.



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Sponsored by

National Institute on Alcohol Abuse and Alcoholism

Participating sites

- San Diego State University
- Indiana University School of Medicine
- University of California, San Diego
- University of California, Los Angeles
- University of New Mexico
- Wayne State University
- Harvard University
- University of Washington
- Indiana University-Purdue University School of Science
- SUNY-Buffalo
- Folkhälsan Research Center-Helsinki
- University of Cape Town
- Moscow Institute of Psychiatry
- Moscow Institute of Obstetrics and Gynecology
- University of Rome

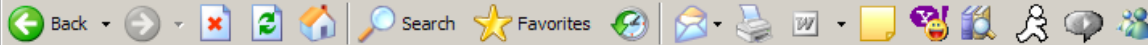
News Story:

Coming soon....



NEW!
Apply for Pilot Project Grants
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The purpose of this consortium is to inform and develop effective interventions and treatment approaches for FASD, through multidisciplinary research involving basic, behavioral and clinical investigators and projects. We hope to develop an infrastructure to foster



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Principal Investigator

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Principal Investigator

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Resources and Information:

<i>By Type:</i>	<i>By Projects:</i>
Forms	Neurobehavioral Core
Manuals	Dysmorphology Core
Tests	Administrative Core
Training Films	Facial Imaging Core

Done

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Conference Meeting Minutes

[March 9, 2004](#)

[April 29, 2004](#)

[June 3, 2004](#)

[June 24 - 25, 2004 \(Annual Meeting at Vancouver\)](#)

[July 29, 2004](#)

[September 23, 2004 \(click here to listen\)](#)

[October 28, 2004 \(click here to listen\)](#)

[November 19, 2004 \(click here to listen\)](#)

[December 15, 2004 \(Audio\)**](#)

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Progress Reports

INDIANAPOLIS:

[CIFASD Progress Reports - December 2004](#)

VANCOUVER:

[Multi-method Intervention Study in Children in South Africa who are Alcohol Exposed](#)
Colleen Adnams

[A Cross Cultural Longitudinal Assessment of FASD](#)
Tatiana M. Foroud

[Dysmorphology Core](#)
Kenneth Lyons Jones

[Neurobehavioral Outcome in Adolescents with FASD](#)
Iiona Autti-Ramo

[Informatics Core](#)
Craig A. Stewart

[Neonatal Ultrasound Study to Detect Fetal Alcohol Brain Damage](#)
Ann Streissguth

[Identification of FASD in South African Children](#)
Sandra W. Jacobson

[UNM Projects under the NIAAA-supported Consortium of International Collaborative Research](#)
Phillip May

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Dysmorphology Core Progress Report

June 24-25, 2004

Kenneth Lyons Jones

2 of 14 10 x 7.5 in

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Dysmorphology Core

FORMS:

- [Dysmorphology Core Forms 12](#)
- [Dysmorphology Core Forms 11](#)
- [Length-for-age and Weight-for-age percentiles \(Birth to 36 months: Boys\)](#)
- [Length-for-age and Weight-for-age percentiles \(Birth to 36 months: Girls\)](#)
- [Stature-for-age and Weight-for-age percentiles \(2 to 20 years: Boys\)](#)
- [Stature-for-age and Wight-for-age percentiles \(2 to 20 years: Girls\)](#)
- [Dysmorphology Core Physical Exam Form \(Microsoft Access Data Entry Form\)](#)

MANUALS:

- [Dysmorphology Manual 12](#)
- [Dysmorphology Manual 11](#)
- [Photographic Protocol \(Measuring the Facial Phenotype...by Astley and Clarren\)](#)
- [Photographic Measurement of Facial Features \(For 2D Facial Photos\)](#)

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Neurobehavioral Core

History

FORMS:

- [Neurobehavioral Core Test Packet](#) - Newest Version (11/30/2004)
- [Neurobehavioral Core Test Packet](#) - Previous Version (06/24/2004)
- [Neurobehavioral Core Test Packet](#) - Previous Version (06/21/2004)

[SCT Questionnaire](#)

MANUALS:

- [Neurobehavioral Test Administration Manual](#) - Newest Version (11/30/2004)
- [Neurobehavioral Test Administration Manual](#) - Previous Version (6/24/2004)
- [Neurobehavioral Test Administration Manual](#) - Previous Version (6/23/2004)

TESTS:

[Virtual Water Maze](#)
(Please email Sarah Mattson at smattson@sunstroke.sdsu.edu to get the activation code in order to collect data. NOTICE: The different language versions can be found in the start menu after it is installed and the homepage will always be in English. Once you've entered in your data and press 'start', it will convert to the chosen language.)

[Neurobehavioral Evaluation System 3](#)
(Please get the "Site Code" from your computer using the user's instruction manual, and send it to Sarah Mattson at smattson@sunstroke.sdsu.edu. Once she receives your "Site Code", she will send the "Site Key".)

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Training Films

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Finger Localization with Box:
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Training Film

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The screenshot shows a Windows Media Player window overlaid on a web browser. The player interface includes a menu bar (File, View, Play, Tools, Help), a navigation bar (Now Playing, Library, Rip, Burn, Sync, Guide), and a main playback area. The playback area is currently black, indicating the video is not playing. The status bar at the bottom shows 'Stopped' and a progress slider. On the right side, there is a 'Now Playing List' pane containing one entry: 'clip_2' with a duration of 1:41. Below the list is a filmstrip icon and the text 'clip_2'. The total time for the clip is also shown as 1:41.

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Pilot Project Grant Program
 Basic Science through Clinical Interventions
 Deadline for Applications - March 1, 2005

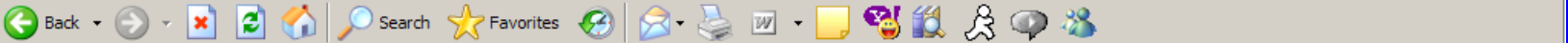
The theme of the CIFASD is one of a cross-cultural assessment of fetal alcohol spectrum disorders and our overall goals are: 1) To better define the effects from prenatal alcohol exposure, including new methodologies to define the fetal alcohol syndrome (FAS) and other alcohol related neurodevelopmental disorders (ARND); 2) To develop more accurate ways of ascertaining these effects and then implement their assessment on a broad scale; 3) To involve researchers from around the world in these various projects, and to engage researchers from outside the alcohol field in the hopes of bringing new techniques and new ways of thinking to the FASD problem; 4) To develop effective interventions and methods to mitigate the effects of prenatal alcohol exposure; and 5) To make any findings available to those interested in the problem of FASD, be they lay persons, practitioners, or researchers. Projects range from basic science projects assessing the molecular mechanisms involved in the etiology of FASD to intervention projects, aimed at mitigating the effects of prenatal alcohol exposure.

As part of this consortium we are funding up to 4 new pilot projects with funding of up to \$30,000 per year in direct costs. Currently, we can only promise funding for one year, although we do plan on applying for continuing support. If that support is forthcoming, a second year of funding would be included. We are interested in projects that help fulfill the goals of the consortium. These could include pilot projects ranging from basic science studies to intervention and prevention studies. The ability to interface with existing projects and methodologies is critical. The following projects are included in the CIFASD and abstracts of existing projects is located at <http://www.cifasd.org/Research.htm>.

A Cross-Cultural Assessment of FASAD Administrative Core
Pilot Project Core - CIFASD
FASD in Italy
FASD in the Ukraine
Assessing FASD with neonatal ultrasound
Dysmorphic comparisons of FASD with possible phenocopies

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Pilot Project Grant Program Basic Science through Clinical Interventions Deadline for Applications - March 1, 2005

How to apply:

- STEP 1. Complete an [application](#). (click on 'application' to either open it or download it.)
- STEP 2. Save the completed application as your name, such as 'marythomas.rtf' and remember where you saved it. If asked to save the changes, click 'YES'.
- STEP 3. Click the 'Browse...' button below to locate your application file.
- STEP 4. Click 'Submit Application' to submit your file.

Please let us know if you have any problems accessing or submitting your application.

PILOT PROJECT GRANT APPLICATION:

Deadline for Applications - March 1, 2005

Directions:

To fill in the form, use the TAB key to move forward and SHIFT+TAB to move backward. The gray boxes will expand as you type. Use the DELETE key to delete any information. To answer the questions, use the two blank pages below. You will be allowed to format these two pages as you wish, such as changing the fonts or making the fonts bigger. Please do not use more than the two pages. Save the application as your name, such as 'marythomas.rtf' and remember where you saved it. If prompt to save the changes, click YES. Go to <http://www.cifasd.org/Grants.cfm> to submit this application online.

Part I: *(fill out application)*

Name of Principal Investigator:

First Name

Last Name



1 2 3 4 5 6 7 8

Research Basic Science Projects

- The amino acid peptide, SAL, protected against reduced body weight, head size, and specifically brain weight and volume. It also protected alcohol induced cortical thinning, and minimized alcohol induced neural tube openings and ventricular enlargement. This suggests SAL's potential use as an antagonist against fetal alcohol rendered ~~neurodevelopmentally~~ early in development
- Supplements with vitamin E, an antioxidant, failed to protect against ~~cellular~~ structural and functional damage induced by heavy binge ethanol exposure. Also treatment with L-NAP did not significantly protect against binge ethanol-induced ~~cellular~~ damage.
- Heavy binge ethanol exposure produced more severe deficits compared to controls in a conditioned ~~eyeblink~~ task when trace conditioning procedures were used compared to when a short-delay conditioning procedure was employed. Trace conditioning (a discrete CS is presented and terminated before the US) requires both hippocampal and ~~cellular~~ interaction while delay conditioning (the CS ~~precedes~~ the onset of the US, and the termination of the CS is delayed until the US is presented) requires only ~~cellular~~ brain stem circuitry.
- Obtained preliminary evidence that octanol binds to L1 at a site overlapping a region involved in ~~synaptic~~ L1 binding. The characterization of specific amino acids involved in this binding might lead to the discovery of a footprint for the development of other ethanol antagonists.

Clinical Projects

- Developed and tested an ~~eyeblink~~ form. Completed first phase of the study in Rome by examining in each of the schools in the Lazio province. Trained physicians to do physical exams in Moscow, Ukraine, Rome and Finland.
- Have obtained over 50 3-D scans of amniocentesis prenatal alcohol exposed, Williams syndrome and control children. Measurement has begun to test this methodology for identifying FASD.
- In Finland have performed ~~eyeblink~~ exams on 50 adolescents with FASD. 3D facial images obtained on most. Additionally, an MRS imaging study has been completed on 10 FASD and 10 controls. Preliminary analysis suggests abnormal metabolites within frontal cortex and cerebellum.
- In the intervention study in South Africa, ~~parenting~~ has been completed and interventions started.
- Neurobehavioral test battery has been delivered to all sites. Forms and manuals available online (some still in draft form).
- Administrative Core has been involved in numerous international educational efforts. Labeling is beginning in France, Japan, and Poland, and being considered in England. Web site for the consortium is online.
- Research staff in Cape Town succeeded in locating all but one of the families from the first half of a 150-member cohort, and all those who were contacted agreed to participate in the follow-up assessment. In addition to the CIFASD assessment battery and ~~eyeblink~~ examination, we pilot tested and

implemented several innovative assessments, including preschool-age executive function and number processing tests and ~~eyeblink~~ conditioning. To date, the 5-year assessments have been completed for the first 20 mothers and children in the cohort.

- In the Seattle pilot project, 31 babies have been scanned via neonatal ultrasound procedure. Averaging ~~eyeblink~~ images has been applied to the first 18 of these babies. Some images revealed clear ~~cellular~~ anomalies and these were in the exposed subgroup of 7 rather than the unexposed subgroup of 11, in all but 1 case. In particular, a specific feature, never previously described for a "nick-shaped" splenium, segregated five of the seven exposed as different from all the unexposed. An ROI was submitted to NIH 1 June 2004. A local grant was also submitted for funds to have ~~eyeblink~~ exams done on all children seen in the pilot program.
- The Informatics Core devised the means by which data is exchanged with CIFASD ~~eyeblink~~, and prototyped this model with the ~~eyeblink~~ Core. A data upload tool for the ~~eyeblink~~ Core was distributed. Data upload tools for several other projects are nearing distribution. CIFASD researchers are beginning to make use of ~~eyeblink~~ research computing systems for analyzing their own data as well.
- The brain imaging core has completed an illustrative movie on the use of the preparation of the mechanical phantom. This will be used at all imaging sites to ensure comparability between different scanners. First use of the phantom at a remote site occurred in October, 2004. An analysis of cerebellum ~~eyeblink~~ has been completed and showed differences in the size and shape of the anterior ~~eyeblink~~ following alcohol exposure. This difference correlated with verbal learning scores, but not with nonverbal learning differences.

- Mason -
- May: Waiting to hear
- The ~~eyeblink~~ project in Buffalo has seen 47 children of which 17 had FAS, 10 were referred for neuropsychological testing, 5 had ~~eyeblink~~ syndrome and 12 were controls. Complete ~~eyeblink~~ exams and 3D facial images were collected on these subjects.
-
-

Publications

- Teasdale, Jackson, H.D, Horn, R.H, and Goodley, C.R. Vitamin E Does Not Protect Against Neonatal Ethanol-Induced ~~Cellular~~ Damage or Deficits in Eyeblink Classical Conditioning in Rats. *Alcoholism: Clinical and Experimental Research*, in press.
- Zhou FC., Sun, Y., Potockak, T. and Speeg, C.Y. A ~~neuroprotective~~ peptide antagonizes fetal alcohol exposure compromised brain growth. *J Molecular Neuroscience*, 24(2004):189-199.
- Stewart, C.A. Bioinformatics: Transforming biological research and medical care. *Communications of the Association for Computer Machinery*, Nov. 2004; in press

