

Genetic Transcriptions

Newsletter of the AAP Section on Genetics and Birth Defects

Winter 2005

From the Chair

The Section on Genetics and Birth Defects of the American Academy of Pediatrics plays a vital role in the lives of all members of the AAP. By our promotion of educational programs on genetics for the AAP at large (and specifically for the National Conference and Exhibition), we serve to enhance the inclusion of genetics into primary care pediatrics. By our advocacy for pediatric geneticists, we stress the importance of pediatric geneticists to deliver these services and educational programs. Now is the time for us to work together to make sure we are seizing the momentum of the Human Genome Project to solidify our role in the AAP. The AAP can help us also as we strive to strengthen the SOGBD.

Speaking on behalf of the Executive Committee of the SOGBD, I can tell you that we are committed to increasing educational programs on genetics, to advancing the role of pediatric geneticists, and to increasing the membership in the SOGBD. To this end, at our recent meeting, we pledged to:

- Continue to increase the number of genetic educational programs for general pediatricians at the annual AAP National Conference and Exhibition (NCE).
- Increase the number of genetics topics at other AAP educational venues (CME, SuperCME, PREP, State Chapter meetings, etc.).
- Investigate ways to enhance the ability of SOGBD members who are also ACMG members to maintain membership in both organizations.
- Continue the work of the subcommittees (Health Systems, Outcomes Research, Practice Issues) in conjunction with our partners in other genetics related organizations. We recognize that while progress in these areas often seems slow or non-existent, relationships are being

Continued on page 2

INSIDE THIS ISSUE

From the Chair	1
SOGBD Leadership Roster	1
Program Success Continues with 2005 Slate of Accepted NCE Proposals	2
Opportunity to Partner with COG on Policy Authorship	3
Young Investigator Research Grant Award	3
Report from the 2003 Young Investigator Research Grant Award Winner	4
Recent Successes in the ICD-9-CM System	5
National Coalition for Health Professional Education in Genetics (NCHPEG)	7
Meet the SOGBD Executive Committee — Emily Chen, MD, PhD and Shawn E. McCandless, MD	8
Meet the AAP Staff — Paul Spire	9
Nominations Subcommittee and the 2005 Section Election Update	10
Pediatrician Referral Service	10
Join the Section ListServ Today!	11

Section on Genetics and Birth Defects Executive Committee

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Chairperson
Greenwood, South Carolina

Ronald P. Bachman, MD
Executive Committee Member
Oakland, California

Emily Chen, MD, PhD
Executive Committee Member
Oakland, California

Mira Irons, MD
Executive Committee Member; Program Chair
Boston, Massachusetts

Hope Northrup, MD
Executive Committee Member; Membership Chair
Houston, Texas

Shawn E. McCandless, MD
Executive Committee Member
Cleveland, Ohio

Additional Section Leadership

Katrina M. Dipple, MD, PhD
Subcommittee on Research Grants Chair
Los Angeles, California

David B. Flannery, MD
Subcommittee on Outcomes Research Chair
Augusta, Georgia

H. Eugene Hoyme, MD
Nominations Subcommittee Chair
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Virginia Kent Proud, MD
Subcommittee on Practice Issues Chair
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From the Chair continued from page 1

forged that will lead to step-wise positive change. We are still deeply committed to address these issues on behalf of our members.

- Work with the Committee on Genetics to assist with the drafting of health care guidelines.
- Investigate ways to use the ListServ as a communication tool between members to share genetics presentations.

I am pleased with the dedication of your Executive Committee to work hard for the above tasks. You can help us. Please recruit more members to the Section! Talk with your colleagues who are not members and tell them about the importance of their membership in the Section. More membership means more clout as we seek to be one of the most vital sections in the AAP. We won't have the number of members that some of the other sections have, but we will have one of the most important sections in terms of our multi-disciplinary approach to childhood diseases, our attention to the family history, and our unwavering advocacy for the children and families with unique needs. Please help us by becoming involved and recruiting more members for the SOGBD.

Please do not hesitate to contact me with any questions or concerns (rsaul@ggc.org).

Robert A. Saul, MD
Chair, Section on Genetics and Birth Defects

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Program Success Continues with 2005 Slate of Accepted NCE Proposals

The Section of Genetics and Birth Defects continues its successful record of acceptance of program proposals for the annual AAP National Conference and Exhibition. One area of focus in the Section's strategic plan over the last few years has been education and outreach to practicing pediatricians, and our Section's success rate in this area reflects our commitment to this important role of the Section.

Accepted proposals for the 2005 National Conference and Exhibition include the following:

- Selected Short subject: Down syndrome: Current Issues and Recommendations
- Audience Response Case Discussion: Metabolic and Genetic Unknowns combined with Genetic conditions that present with skin manifestations
- Meet-the Expert Discussion: Fragile X
- Seminar: Fish and Chips: FISH and Gene Chips for Diagnosis: Present and Future Considerations
- Plenary Session: Pharmacogenetics: Personalizing Your Drug Profile

Since the process for submission and acceptance of proposals begins over one year in advance, we ask for all Section members to begin thinking about topics that you feel would be important to submit for the 2006 NCE. Also, please think about opportunities to partner with other AAP Sections on the submission of proposals, as this may increase the likelihood of a proposal being accepted. An example of this might be partnering with the Section of Otolaryngology for a seminar on hearing loss. Dr. Chris Cunniff is a member of the NCE Planning Group and is a strong advocate for our Section's submissions.

The Section Executive Committee members are currently working on new program ideas for the next submission date of April 2005. We welcome the involvement of Section members in this process. If you have any ideas for future submissions, please email them to me at mira.irons@childrens.harvard.edu.

Mira Irons, MD
Program Chairperson

Opportunity to Partner with COG on Policy Authorship

Dear Members of the Section on Genetics and Birth Defects:

I am writing this letter in corroboration with Dr. Howard Saal (SOGBD Liaison to the Committee on Genetics) to seek persons who are interested in co-authoring Academy clinical reports and policy statements with the Committee on Genetics (COG). The COG has decided to add three additional statements to its ongoing work list. These would include articles on autism, 22q deletion, and Prader-Willi syndrome.

If you have an interest in working on one of these articles, we would appreciate your forwarding your interest to Paul Spire at pspire@aap.org at your earliest convenience. Our plan is to have a first author from within the SOGBD, who will work in collaboration with one of the members of the Committee. The subjects and their respective COG co-authors will be as follows:

- Autism – Dr. Nancy Mendelson
- 22q Deletions – Dr. Howard Saal
- Prader-Willi Syndrome – Dr. Joseph Hersh

The AAP's authorship guidelines for policy statements indicate that there may be up to two authors of record per statement. For the three proposed statements, this would include the first author from within the SOGBD and the respective COG member listed above.

We look forward to your input. We see this as an exciting opportunity to expand the role of the Section in the activities in the AAP. If you have any questions, please don't hesitate to contact either Dr. Saul, myself, or Paul Spire.

Sincerely,

G. Bradley Schaefer, MD
Chair, Committee on Genetics

Young Investigator Research Grant Award

The AAP Section of Genetics and Birth Defects Subcommittee on Research Grants is proud to announce Dr. Carrie L. Heike as the 2004 Young Investigator Research Grant Awardee. Dr. Heike is the Pediatric Craniofacial Fellow at the University of Washington and Children's Hospital and Regional Medical Center in Seattle Washington. Her research project, entitled "Craniofacial Features and TBX1 in 22q11 Deletion Syndrome," focuses on refining the craniofacial phenotype in patients with 22q11 Deletion Syndrome and determining the role of polymorphisms in TBX1 in these patients. We look forward to hearing about Dr. Heike's research at our annual breakfast meeting at ASHG in 2005. Please join us in congratulating Dr. Heike.

Applications for the 2005 Young Investigator Research Grant will be distributed to all Section members, as well as to the directors of all US accredited programs in medical genetics, in early May 2005. Applications for the 2005 \$20,000 research award will be due July 29, 2005. Please contact Paul Spire (pspire@aap.org) for additional information.

The Section Executive Committee wishes to extend its sincere thanks to Genzyme Corporation for their continued sponsorship of this important award.

Katrina M. Dipple, MD, PhD
Chair, Subcommittee on Research Grants

Report from the 2003 Young Investigator Research Grant Award Winner

Brett H. Graham, MD, PhD, winner of the 2003 SOGBD Young Investigator Research Grant Award, discussed the results of his award-winning project in a presentation made during the recent SOGBD Annual Business Meeting and Breakfast. The Business Meeting and Breakfast was convened in conjunction with the ASHG's annual meeting, held fall 2004 in Toronto, Ontario, Canada. A synopsis of Dr. Graham's presentation and research findings follows.

Brett H. Graham, MD, PhD
Mentor: William J. Craigen, MD, PhD
Department of Molecular and Human Genetics
Baylor College of Medicine, Houston, TX

Drosophila VDAC: A Model to Study Mitochondrial Function

In eukaryotes, the mitochondrion provides important functions for many cellular processes. These functions include energy metabolism (ATP production), apoptosis (important for development as well as immune and cancer surveillance), and oxidative metabolism. The multi-system manifestations of mitochondrial diseases exemplify the critical role of mitochondria in cellular functions. However, the fundamental molecular pathophysiological mechanisms of mitochondrial disease remain poorly understood. The development of model systems is an essential component towards dissecting the complex roles of mitochondria in cell function and disease. Voltage-dependent anion channels (VDACs), also known as mitochondrial porins, are a family of small pore-forming proteins of the mitochondrial outer membrane found in all eukaryotes. Studies in mammalian systems have implicated VDACs playing important roles in the regulated flux of metabolites between the cytosolic and mitochondrial compartments, energy metabolism, memory/synaptic plasticity, male fertility and apoptosis.

The fruit fly, *Drosophila melanogaster*, offers many advantages as a genetic model system. Utilized for over a century, the fruit fly provides a sophisticated experimental genetic system with well-studied biology. Its small size and short generation time make large-scale breeding rapid and economical compared to mammalian systems. In addition, large publicly available collections of deletions and P element insertion lines facilitate genetic modifier screens.

D. melanogaster has four genes (*porin*, CG17137, CG31722-A, CG31722-B) that are homologous to mammalian VDACs. *porin* exhibits the greatest homology to mammalian VDACs and is ubiquitously expressed, while the expression of the other three *Drosophila* VDACs is predominately limited to the male reproductive tract.

The existence of *porin* alleles that contain a P element (*Drosophila* transposon) inserted in the 5' untranslated region provided the opportunity to generate and characterize *porin* mutant phenotypes. These P element alleles as well as an imprecise excision of a P element allele comprise a hypomorphic *porin* mutant allelic series ranging from mildly reduced to almost complete absence of *porin* expression as demonstrated by Western blot analysis. These hypomorphic *porin* mutants exhibit partial pupal lethality and male infertility. These mutants also demonstrate delayed recovery from temporary paralysis induced by mechanical stress (increased "bang" sensitivity). This increased "bang" sensitivity phenotype is classically associated with defects in synaptic transmission, but could conceivably be due to muscle dysfunction, neuronal dysfunction or a combination of both. Comparison of electroretinograms (ERGs) from wild type and *porin* mutant flies reveal abnormalities suggestive of defective synaptic transmission in an age dependent manner. Electron micrographs of indirect flight skeletal muscles from mutant flies show greatly enlarged mitochondria with abnormal morphology and inclusions, implying primary muscle pathology. Intriguingly, while severe hypomorphic *porin* mutants demonstrate reduced viability (50% decrease in life span), mild hypomorphic mutants exhibit a 30-50% increase in life span. Importantly, all of the mutant phenotypes are rescued by ectopic expression of wild type *porin* cDNA.

In summary, *porin* mutants exhibit male infertility, an abnormal neuromuscular phenotype, and altered life expectancies. These mutant phenotypes are reminiscent of mouse VDAC mutants, validating these fly mutants as a model for mitochondrial function. Studies in progress include utilizing *porin* mutant phenotypes in enhancer/suppressor screens to identify genetic modifiers. The development of *Drosophila* models for mitochondrial function and disease offers the promise of a powerful genetic system to study molecular pathogenesis and potential therapeutics that will complement mammalian studies.

Brett H. Graham, MD, PhD
2003 Young Investigator Research Grant Award
Winner

Recent Successes in the ICD-9-CM System

The SOGBD Health Systems Subcommittee continues to work in conjunction with the Committee on the Economics of Genetic Services (CEGS) of the American College of Medical Genetics (ACMG). Over the last year and a half, much of the work has related to influencing changes in the CPT and ICD-9-CM coding systems. This article will provide a brief update on recent successes in the ICD-9-CM system that are of particular relevance to AAP members.

Anyone practicing clinical genetics recognizes the dearth of diagnostic codes available for genetics. Recently, representatives of the ACMG CEGS, including the author, were able to engage the ICD-9-CM committee and present code proposals to introduce some new genetic codes and clean up some archaic terminology. We have achieved a very high success rate and have been asked to continue to submit codes for consideration. All of the accepted codes were made available for use beginning in October 2004 and will be published in the 2005 ICD-9-CM book. Thanks to Dr. Stirling Puck for leading this effort. All ICD-9-CM codes will automatically be added to ICD-10-CM that is scheduled to be available for use in the US in 2007. The new codes are as follows:

277.85 Disorders of fatty acid oxidation metabolism

- Carnitine palmitoyltransferase deficiencies (CPT1, 2)
- Glutaric aciduria type II (type IIA, IIB, IIC)
- Long chain/very long chain acyl CoA dehydrogenase deficiency (LCHAD)
- Medium chain acyl CoA dehydrogenase deficiency (MCAD)
- Short chain acyl CoA dehydrogenase deficiency (SCAD)
- Excludes: primary carnitine deficiencies 277.81

277.86 Disorders of peroxisomal metabolism

- Adrenomyeloneuropathy
- Infantile Refsum disease
- Neonatal adrenoleukodystrophy
- Rhizomelic chondrodysplasia punctata
- X-linked adrenoleukodystrophy
- Zellweger syndrome

277.87 Disorders of mitochondrial metabolism

- Kearns-Sayre syndrome
- Mitochondrial encephalopathy, lactic acidosis and stroke-like episodes (MELAS syndrome)
- Myoclonus with epilepsy and with ragged red fibers (MERRF syndrome)
- Mitochondrial neurogastrointestinal encephalopathy syndrome (MNGIE)
- Neuropathy, ataxia and retinitis pigmentosa (NARP syndrome)

Excludes:

- Disorders of pyruvate metabolism 271.8
- Leber's optic atrophy 377.16
- Leigh's subacute necrotizing encephalopathy 330.8

Continued on page 6

Recent Successes in the ICD-9-CM System *continued from page 5*

796.6 Abnormal findings on neonatal screening

Excludes: nonspecific serological evidence of HIV

This provides a code for follow-up testing of an infant who has an abnormal screening test. Previously one would have to code the disorder (such as PKU), even though the actual disease status is unknown.

Chromosomal Anomalies

- Updates archaic terminology
- Reorganization and additions to 758.3 Autosomal deletion syndromes:
 - 758.31 Cri-du-chat syndrome
 - 758.32 Velo-cardio-facial syndrome
 - 758.33 Other microdeletions
 - Smith-Magenis
 - Miller-Dieker
 - 758.39 Other autosomal deletions

Other and unspecified multiple congenital anomaly syndromes

- Angelman syndrome - 759.89
- CHARGE association/syndrome - 759.89
- Incontinentia pigmenti - 757.33
- Kabuki syndrome- 759.89
- Noonan syndrome - 759.89
- Oculo-Auriculo-Vertebral spectrum- 756.0
- Stickler syndrome – 759.89

V26 Procreative Management (This code currently exists)

V26.3 Genetic Counseling and Testing

V26.31 Screening for genetic disease carrier status

The V26.31 code is added to describe testing done to establish carrier status. This would support testing in the context of CF carrier screening, Jewish disease screening (eg Tay-Sachs) etc. At present one would need to code the disease, which is not appropriate.

V18.9 Family member is a carrier of a genetic disease

This expands the “Family history of...” codes to include identification of carrier status of a relative, rather than the actual disease itself. For example, carriers of CF are being identified through newborn screening programs. Parents are offered testing to establish risk for having an affected child. No code existed prior to this time for this testing.

One other item of interest: The author was asked to testify at the recent Secretary’s Advisory Committee on Genetics, Health and Society (SACGHS chaired by Section member Ed McCabe) on issues of reimbursement in clinical genetics. Section member Ron Bachman also testified. I was informed that the SACGHS has identified access to and reimbursement for genetic services to be its top priorities. This is a huge victory for our specialty at the national level. Section members have consistently ranked reimbursement as the number one issue in surveys sponsored by the SOGBD. The author has been asked to participate in these efforts going forward. I will be contacting other section members for help once the agenda has been clarified.

Marc S. Williams, MD
Chair, Subcommittee on Health Systems

National Coalition for Health Professional Education in Genetics (NCHPEG)

NCHPEG is a non-profit organization dedicated to educating a broad range of health professionals in genetics and genomics, providing excellent educational “tools” in genetics for medical students, residents, primary care providers, and allied health professionals. The goal is to educate these groups so that they can integrate genetics into their knowledge base and utilize this for their practice.

NCHPEG has an excellent web site that I recommend to all members of the American Academy of Pediatrics (www.nchpeg.org). It includes information about genetic educational resources, a comprehensive “Core Competencies in Genetics,” access to its publication of the “Genetic Family History in Practice,” GROW (Genetic Resources on the Web), and more. One can also download PowerPoint presentations of talks given at their annual meeting.

NCHPEG is linked to the National Human Genome Research institute through Dr. Francis Collins. He is a member of the Executive Committee of NCHPEG and is the presiding officer of the NCHPEG Board of Directors.

A partial listing of some of the work of NCHPEG follows:

1. Core Competencies in Genetics: A comprehensive outline of the requirements for educating health care professionals in basic genetics.
2. Genetic Family History in Practice newsletter: A quarterly publication on the importance of obtaining a family history.
3. Genetic Resources on the Web (GROW): A listing of important genetic web sites that includes information on basic genetics, genetic counseling, ethical issues, support organizations, and legislative information. The goal of GROW is to become a “genetics search engine” (<http://geneticsresources.org/>).
4. Educational Programs in Genetics: Available CD-ROM's and/or the Internet
 - Psychiatric Genetics CD-ROM
 - Basic Human Genetics: eLearning Program (in conjunction with GlaxoSmithKline)
 - Genetics and Common Disease: This case-based program includes information on the genetics of common disease, family history, ELSI issues, risk assessment, and patient management and counseling.
 - Targeted Genetics Education: NCHPEG has developed two interactive web-based modules for genetic health care. One is for dental students and practitioners. The other will target family physicians and will be accomplished in collaboration with the American Academy of Family Physicians (AAFP).

For more about NCHPEG, please visit their web site: <http://www.nchpeg.org>.

Ronald P. Bachman, MD
AAP Liaison to NCHPEG

Meet the SOGBD Executive Committee

Please meet the two newest members of your SOGBD Executive Committee: Emily Chen, MD, PhD and Shawn E. McCandless, MD.

Emily Chen, MD, PhD



Emily Chen, MD, PhD is a pediatrician, clinical geneticist, and co-director of a molecular diagnostics laboratory. She earned her Bachelor's Degree in Biochemistry at Iowa State University and MD/PhD in Genetics at the University of Iowa. Her internship and residency in Pediatrics were

completed at the University of California, San Diego, followed by fellowship training at the University of California, San Francisco. After fellowship, she worked at Children's Hospital Oakland for six years as clinical geneticist, co-director of the molecular genetics laboratory, medical consultant for newborn screening in Northern California, and Director of a Prenatal Diagnosis Center.

Since December 2001, Dr. Chen has been working as geneticist and co-director of the Molecular Genetics Laboratory at Kaiser Permanente Medical Group (San Francisco, Oakland, Santa Teresa). She particularly likes working at Kaiser Permanente because of the preventative approaches and philosophy, which she feels are so important for families with young children. She is a member of the Santa Clara Medical Association and has been on the clinical faculty in Pediatrics at UCSF since 1994.

Current interests include teaching pediatric and OB/GYN residents and fellows at Kaiser Permanente and UCSF, helping to bridge our knowledge of clinical genetics and molecular genetics, medical management of children and adults with Down syndrome, advocating for the medical and social needs of the Little People of America, and raising awareness among pediatricians of the medical needs of children adopted internationally. She also strives to help pediatricians appreciate and understand what Genetics can and can't offer or explain, in the midst of fast-paced advances in the field.

As a mother of four young children, she expresses her respect and recognition of the leadership and guidance that the AAP provides.

Shawn E. McCandless, MD



Shawn McCandless, MD is an Assistant Professor of Genetics and Pediatrics at Case Western Reserve University and University Hospitals of Cleveland (Rainbow Babies and Children's Hospital), in Cleveland, Ohio. He graduated from the

Temple University School of Medicine in 1988, becoming board certified in Pediatrics following residency training at the University of Wisconsin in Madison.

After one year as a Registrar in Pediatrics at the Gloucestershire Royal Hospital in Gloucester, England, he joined the Indian Health Service, practicing Pediatrics at the Northern Navajo Medical Center in Shiprock, NM, as a staff Pediatrician, and then as the Chief of Pediatrics. After 4 years in New Mexico, Shawn moved to Cleveland to pursue additional training in the field of Genetics and Metabolism at Case Western Reserve University. He then became an Assistant Professor of Pediatrics at the University of North Carolina at Chapel Hill, primarily working with patients with inborn errors of metabolism and Prader-Willi syndrome. In 2003 he returned to Case in the Department of Genetics and joined the faculty in the Center for Inherited Disorders of Energy Metabolism (CIDEM) laboratory.

His research interests center on the development of treatments and management strategies for individuals with metabolic and genetic diseases, particularly disorders of mitochondrial energy metabolism and Prader-Willi syndrome.

Shawn has been a member of the American Academy of Pediatrics since 1988.

Meet the AAP Staff



Paul Spire, Manager, Division of Technical and Medical Services, is the manager and primary AAP staff contact for the Section on Genetics and Birth Defects. Working out of the Academy's headquarters office in Elk Grove Village, Illinois, Paul provides support and administrative management of the Section's activities, serves as a resource to the SOGBD, and assists in coordinating genetics-related efforts between the SOGBD, the Committee on Genetics, and other relevant stakeholders within the Academy. As the Section's liaison to the AAP headquarters office, Paul serves as a conduit to the many Academy staff, departments, and member groups that the Section works with, such as the NCE Planning Group, the Department of Membership, AAP News, Academy Leadership, and the Academy's Chapter structure. He assists the SOGBD Executive Committee in navigating the policies, procedures, and inner-working of the Academy to maximize the SOGBD's efforts on behalf of children and pediatric geneticists.

In addition to his role with the SOGBD, Paul serves as the staff manager for the Committee on Genetics, the Committee on Environmental Health, and the Nexus on Environmental Health. In these roles, he assists in shepherding the development of Academy Policy Statements, Clinical Reports, and Technical Reports related to genetics and environmental health topics, assists in the development of educational programs and materials, coordinates revision and publication of the AAP's *Pediatric Environmental Health* manual, and provides administrative oversight for a number of grant-funded educational projects.

Paul joined the AAP staff in the Spring 2002. He came to the Academy with health association, grant writing, and project management experience, including employment with the American Association of Oral and Maxillofacial Surgeons and the International Association of Rotational Molders. He earned his BA in Communications from the University of Iowa. Paul lives in Mt. Prospect, Illinois with his wife Dena and their now toddling son Julian.

Nominations Subcommittee and the 2005 Section Election Update

The SOGBD Executive Committee would like to extend sincere thanks to Section members Leah Burke, MD and Cynthia Powell, MD for their years of service on the Nominations Subcommittee. Their terms expired in late 2004, so they both recently rotated off of the subcommittee. Their contributions to Section operations and participation in the Executive Committee's meetings will be missed.

To this end, the Executive Committee is pleased to announce the new SOGBD Nominations Subcommittee:

H. Eugene Hoyme, MD - Nominations Subcommittee Chairperson
William Wilson, MD - Nominations Subcommittee Member

The new Nominations Subcommittee is currently finalizing the slate of candidates who will vie for two upcoming Executive Committee openings during the 2005 Section election cycle.

Please note that for 2005, all AAP Section elections will be conducted using an electronic ballot system. The online ballot, as well as the candidates' biographical information, will be available beginning March 1, 2005 at www.aap.org/elections. Section members will receive an email notification in advance of the voting period with additional information and individualized login information. Because not all members have computer access or capability, paper ballots will be made available upon request only by contacting the AAP Department of Committees and Sections at 1-800-433-9016, ext 4079. Voting is scheduled to conclude on Friday, April 30, 2005. The 2 new Executive Committee members elected through this process will begin serving their terms in November 2005.

Pediatrician Referral Service

In 2002, the American Academy of Pediatrics launched the Pediatrician Referral Service (PRS), transforming it into an online, searchable service. The Pediatrician Referral Service has proven to be a valuable benefit for AAP members, receiving over 4,000 site visits monthly. Parents and family members searching for a pediatrician have a more convenient, efficient, and effective way to conduct their search. The PRS is located at www.aap.org/referral.

The Department of Membership and Department of Information Technology are happy to announce the latest enhancement to the Pediatrician Referral Service. Effective August 2004, the Pediatrician Referral Service is now searchable by specialty or area of interest. The results shown reflect a member's involvement in a particular section, but *do not necessarily imply board certification in that specialty*.

Participation in the PRS is optional for AAP members, so if you are no longer in practice, or just prefer not to participate in this service, you may withdraw your name from the PRS by visiting www.aap.org/referral/prsremove.cfm.

If you do wish to participate, and in order to make the PRS as accurate and robust as possible, we ask you to update your contact information, board, and sub-board information online through the AAP Member Center (www.aap.org/moc – click on Update my Personal Profile).

Prospective patients will use the mailing address and/or phone number we have on file to contact you. Therefore, please be sure that the information in our records is accurate and appropriate for listing in the PRS.

Thank you for helping us bring this valuable service to the children and families we serve.

Be Informed !! Get Involved !!

Join the Section on Genetics and Birth Defects ListServ Today!

The SOGBD ListServ allows your Section Executive Committee and AAP Staff to communicate with you in a timely and efficient manner. Currently, approximately 90% of the section membership belongs to the SOGBD ListServ. If you have not yet joined, or if your email address has recently changed, please provide the information requested below and fax this form back to the attention of Paul Spire at 847-434-8000. Alternatively, you may send an email to pspire@aap.org requesting to be added to the ListServ.

Thank You!

Name: _____

City: _____ State: _____

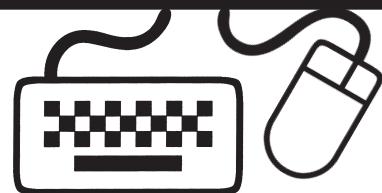
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Previous Email Address to be Removed from ListServ (if applicable):

**Sign Up NOW!
for SOGBD
ListServ!**

FAX BACK THIS FORM TO!

Paul Spire - 847-434-8000





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Newsletter of the AAP Section on Genetics and Birth Defects