



Melanie Manning

- Clinical Professor, Pathology
- Clinical Professor, Pediatrics - Medical Genetics

CLINICAL OFFICE (PRIMARY)

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CLINICAL FOCUS

- Medical Genetics
- Anatomic and Clinical Pathology

ACADEMIC APPOINTMENTS

- Clinical Professor, Pathology
- Clinical Professor, Pediatrics - Medical Genetics

PROFESSIONAL EDUCATION

- Board Certification: Clinical Cytogenetics, American Board of Medical Genetics and Genomics (2005)
- Board Certification: Pediatrics, American Board of Pediatrics (2000)
- Board Certification: Clinical Genetics and Genomics, American Board of Medical Genetics and Genomics (2023)
- Residency: Stanford University Division of Medical Genetics (2002) CA
- Fellowship: Stanford University Pathology Fellowships (2003) CA
- Residency: Phoenix Children's Hospital Pediatric Residency (2000) AZ
- Medical Education: Eastern VA Medical School (1997) VA

Publications

PUBLICATIONS

- **A Comparative Effectiveness Study of Lorazepam or IVIg Versus no Treatment for Down Syndrome Regression Disorder.** *Neurology and therapy*
Santoro, J. D., Jafarpour, S., Rezvan, P. H., Khoshnood, M. M., Vogel, B. N., Nguyen, L., Kazerooni, L., Spinazzi, N. A., Anadani, N., Fisher, K. S., Filipink, R. A., Manning, M. A., Franklin, et al
2026

- **An examination of child outcomes and predictors of severity when prenatal alcohol exposure is frequent and heavy.** *Alcohol, clinical & experimental research*
May, P. A., Hasken, J. M., Marais, A. S., De Vries, M. M., Kalberg, W. O., Buckley, D., Abdul-Rahman, O., Adam, M. P., Robinson, L. K., Manning, M. A., Parry, C. D., Seedat, S., Hoyme, et al
2026; 50 (2): e70228
- **Neurodiagnostic Studies and the Prediction of Immunotherapy Response in Down Syndrome Regression Disorder**
Santoro, J. D., Jafarpour, S., Keehan, L., Khoshnood, M., Kazerooni, L., Boyd, N., Vogel, B., Nguyen, L., Manning, M., Nagesh, D., Spinazzi, N., Besterman, A., Quinn, et al
SAGE PUBLICATIONS LTD.2025: 338-339
- **Does paternal alcohol consumption affect the severity of traits of fetal alcohol spectrum disorders?** *Alcohol, clinical & experimental research*
May, P. A., Hasken, J. M., Blankenship, J., Marais, A. S., Gossage, J. P., Kalberg, W. O., De Vries, M., Robinson, L. K., Buckley, D., Manning, M., Parry, C. D., Hoyme, H. E., Tabachnick, et al
2025
- **Superiority of Immunotherapy to Benzodiazepines and No Treatment in Down Syndrome Regression Disorder**
Santoro, J., Jafarpour, S., Rezvan, P., Khoshnood, M., Boyd, N., Vogel, B., Nguyen, L., Kazerooni, L., Spinazzi, N., Anadani, N., Fisher, K., Filipink, R., Manning, et al
LIPPINCOTT WILLIAMS & WILKINS.2025
- **Diagnostic abnormalities, disease severity and immunotherapy responsiveness in individuals with Down syndrome regression disorder.** *Scientific reports*
Santoro, J. D., Jafarpour, S., Keehan, L., Khoshnood, M. M., Kazerooni, L., Boyd, N. K., Vogel, B. N., Nguyen, L., Manning, M., Nagesh, D., Spinazzi, N. A., Besterman, A. D., Quinn, et al
2024; 14 (1): 30865
- **Maternal and paternal risk factors associated with diagnoses within the continuum of fetal alcohol spectrum disorders in the USA: Proximal and distal influences.** *Alcohol, clinical & experimental research*
May, P. A., Hasken, J. M., Stegall, J. M., Mastro, H. A., Baete, A., Russo, J., Bozeman, R., Burns, M. K., Jones, J. V., Kalberg, W. O., Buckley, D., Abdul-Rahman, O., Adam, et al
2024
- **Clinical Features of Typically Developing Children With and Without Prenatal Alcohol Exposure.** *The Journal of pediatrics*
May, P. A., Tabachnick, B., Hasken, J. M., Marais, A., de Vries, M. M., Kalberg, W. O., Buckley, D., Manning, M., Robinson, L. K., Parry, C. D., Seedat, S., Hoyme, H. E.
2024: 114327
- **Neuroimaging abnormalities associated with immunotherapy responsiveness in Down syndrome regression disorder.** *Annals of clinical and translational neurology*
Santoro, J. D., Khoshnood, M. M., Jafarpour, S., Nguyen, L., Boyd, N. K., Vogel, B. N., Kammeyer, R., Patel, L., Manning, M. A., Rachubinski, A. L., Filipink, R. A., Baumer, N. T., Santoro, et al
2024
- **Maternal risk factors for fetal alcohol spectrum disorders: Distal variables.** *Alcohol, clinical & experimental research*
May, P. A., Hasken, J. M., de Vries, M. M., Marais, A. S., Abdul-Rahman, O., Robinson, L. K., Adam, M. P., Manning, M. A., Kalberg, W. O., Buckley, D., Snell, C. L., Seedat, S., Parry, et al
2023
- **Multifaceted case management during pregnancy is associated with better child outcomes and less fetal alcohol syndrome.** *Annals of medicine*
May, P. A., Marais, A., Kalberg, W. O., de Vries, M. M., Buckley, D., Hasken, J. M., Snell, C. L., Barnard Rohrs, R., Hedrick, D. M., Bezuidenhout, H., Anthonissen, L., Brocker, E., Robinson, et al
2023; 55 (1): 926-945
- **Maternal and paternal risk factors for fetal alcohol spectrum disorders: Alcohol and other drug use as proximal influences.** *Alcohol, clinical & experimental research*
May, P. A., Hasken, J. M., de Vries, M. M., Marais, A. S., Abdul-Rahman, O., Robinson, L. K., Adam, M. P., Manning, M. A., Kalberg, W. O., Buckley, D., Seedat, S., Parry, C. D., Hoyme, et al
2023; 47 (11): 2090-2109

- **Hypovitaminosis D in persons with Down syndrome and autism spectrum disorder.** *Journal of neurodevelopmental disorders*
Boyd, N. K., Nguyen, J., Khoshnood, M. M., Jiang, T., Nguyen, L., Mendez, L., Spinazzi, N. A., Manning, M. A., Rafii, M. S., Santoro, J. D.
2023; 15 (1): 35
- **Maternal and paternal risk factors for fetal alcohol spectrum disorders: Alcohol and other drug use as proximal influences** *ALCOHOL-CLINICAL AND EXPERIMENTAL RESEARCH*
May, P. A., Hasken, J. M., de Vries, M. M., Marais, A., Abdul-Rahman, O., Robinson, L. K., Adam, M. P., Manning, M. A., Kalberg, W. O., Buckley, D., Seedat, S., Parry, C. D. H., Hoyme, et al
2023
- **Generation of two induced pluripotent stem cell lines from patients with Down syndrome.** *Stem cell research*
Zhu, W., Liu, W., Yu, R., Manning, M., Waran Romfh, A., Wu, J. C.
2023; 72: 103204
- **Immunotherapy responsiveness and risk of relapse in Down syndrome regression disorder.** *Translational psychiatry*
Santoro, J. D., Spinazzi, N. A., Filipink, R. A., Hayati-Rezvan, P., Kammeyer, R., Patel, L., Sannar, E. A., Dwyer, L., Banerjee, A. K., Khoshnood, M., Jafarpour, S., Boyd, N. K., Partridge, et al
2023; 13 (1): 276
- **Evidence of Neuroinflammation and Immunotherapy Responsiveness in Individuals with Down Syndrome Regression Disorder**
Santoro, J., Partridge, R., Tanna, R., Pagarkar, D., Khoshnood, M., Kammeyer, R., Gombolay, G., El-Dahr, J., Christy, A., Patel, L., Manning, M., Van Mater, H., Rafii, et al
LIPPINCOTT WILLIAMS & WILKINS.2023
- **Neonatal lupus is a novel cause of positive newborn screening for X-linked adrenoleukodystrophy.** *American journal of medical genetics. Part A*
Niehaus, A. D., Mendelsohn, B. A., Zimmerman, B., Lee, C. U., Manning, M. A., Cusmano-Ozog, K. P., Tise, C. G.
2023
- **Phenotypic variability in RERE-related disorders and the first report of an inherited variant.** *American journal of medical genetics. Part A*
Niehaus, A. D., Kim, J., Manning, M. A.
2022
- **The prevalence of fetal alcohol spectrum disorders in rural communities in South Africa: A third regional sample of child characteristics and maternal risk factors.** *Alcoholism, clinical and experimental research*
May, P. A., de Vries, M. M., Marais, A., Kalberg, W. O., Buckley, D., Hasken, J. M., Abdul-Rahman, O., Robinson, L. K., Manning, M. A., Seedat, S., Parry, C. D., Hoyme, H. E.
2022
- **Evidence of neuroinflammation and immunotherapy responsiveness in individuals with down syndrome regression disorder.** *Journal of neurodevelopmental disorders*
Santoro, J. D., Partridge, R., Tanna, R., Pagarkar, D., Khoshnood, M., Rehmani, M., Kammeyer, R. M., Gombolay, G. Y., Fisher, K., Conravey, A., El-Dahr, J., Christy, A. L., Patel, et al
2022; 14 (1): 35
- **Short Bones, Renal Stones, and Diagnostic Moans: Hypercalcemia in a Girl Found to Have Coffin-Lowry Syndrome.** *Journal of investigative medicine high impact case reports*
Tise, C. G., Matalon, D. R., Manning, M. A., Byers, H. M., Grover, M.
2022; 10: 23247096221101844
- **Characteristic physical traits of first-grade children in the United States with fetal alcohol spectrum disorders (FASD) and associated alcohol and drug exposures.** *American journal of medical genetics. Part A*
May, P. A., Hasken, J. M., Manning, M. A., Robinson, L. K., Abdul-Rahman, O., Adam, M. P., Jewett, T., Elliott, A. J., Kalberg, W. O., Buckley, D., Hoyme, H. E.
2022
- **The challenges and pitfalls of fetal alcohol spectrum disorders prevalence studies.** *Alcoholism, clinical and experimental research*
May, P. A., Hasken, J. M., Manning, M. A., Hoyme, H. E.
2021
- **Increased Autoimmunity in Individuals With Down Syndrome and Moyamoya Disease** *FRONTIERS IN NEUROLOGY*

- Santoro, J. D., Lee, S., Wang, A. C., Ho, E., Nagesh, D., Khoshnood, M., Tanna, R., Durazo-Arvizu, R. A., Manning, M. A., Skotko, B. G., Steinberg, G. K., Rafii, M. S.
2021; 12: 724969
- **Gestational age and birth growth parameters as early predictors of fetal alcohol spectrum disorders.** *Alcoholism, clinical and experimental research*
Hasken, J. M., Marais, A., de Vries, M., Joubert, B., Cloete, M., Botha, I., Symington, S. R., Kalberg, W. O., Buckley, D., Robinson, L. K., Manning, M. A., Parry, C. D., Seedat, et al
2021
 - **Estimating the community prevalence, child traits, and maternal risk factors of fetal alcohol spectrum disorders (FASD) from a random sample of school children.** *Drug and alcohol dependence*
May, P. A., Hasken, J. M., Hooper, S. R., Hedrick, D. M., Jackson-Newsom, J., Mullis, C. E., Dobyns, E., Kalberg, W. O., Buckley, D., Robinson, L. K., Abdul-Rahman, O., Adam, M. P., Manning, et al
2021; 227: 108918
 - **Immunohistochemical ALK Expression in Granular Cell Atypical Fibroxanthoma: A Diagnostic Pitfall for ALK-Rearranged Non-neural Granular Cell Tumor.** *The American Journal of dermatopathology*
Brown, R. A., Cloutier, J. M., Bahrani, E. n., Liman, A. n., Tasso, D. n., Palmer, A. n., Manning, M. A., Galperin, I. n., Rieger, K. E., Novoa, R. A., Lau, H. n., Louie, C. Y.
2021
 - **Genotype-phenotype study and expansion of ARL6IP1-related complicated hereditary spastic paraplegia.** *Clinical genetics*
Cao, Y., Manning, M., Pope, K., He, W., Vetrini, F., Siskind, C., Rosenfeld, J. A., Yang, Y., Xiao, R.
2020
 - **The prevalence, child characteristics, and maternal risk factors for the continuum of fetal alcohol spectrum disorders: A sixth population-based study in the same South African community.** *Drug and alcohol dependence*
May, P. A., Marais, A., De Vries, M. M., Buckley, D., Kalberg, W. O., Hasken, J. M., Stegall, J. M., Hedrick, D. M., Robinson, L. K., Manning, M. A., Tabachnick, B. G., Seedat, S., Parry, et al
2020: 108408
 - **Author Correction: Large-scale targeted sequencing identifies risk genes for neurodevelopmental disorders.** *Nature communications*
Wang, T., Hoekzema, K., Vecchio, D., Wu, H., Sulovari, A., Coe, B. P., Gillentine, M. A., Wilfert, A. B., Perez-Jurado, L. A., Kvarnung, M., Sleyp, Y., Earl, R. K., Rosenfeld, et al
2020; 11 (1): 5398
 - **Ocular measurements in fetal alcohol spectrum disorders.** *American journal of medical genetics. Part A*
Gomez, D. A., May, P. A., Tabachnick, B. G., Hasken, J. M., Lyden, E. R., Kalberg, W. O., Hoyme, H. E., Manning, M. A., Adam, M. P., Robinson, L. K., Jones, K. L., Buckley, D., Abdul-Rahman, et al
2020
 - **Addendum: Array-based technology and recommendations for utilization in medical genetics practice for detection of chromosomal abnormalities.** *Genetics in medicine : official journal of the American College of Medical Genetics*
Manning, M., Hudgins, L., American College of Medical Genetics and Genomics (ACMG) Professional Practice and Guidelines Committee
2020
 - **Fetal Alcohol Spectrum Disorders in a Midwestern City: Child Characteristics, Maternal Risk Traits, and Prevalence.** *Alcoholism, clinical and experimental research*
May, P. A., Hasken, J. M., Baete, A., Russo, J., Elliott, A. J., Kalberg, W. O., Buckley, D., Brooks, M., Ortega, M. A., Hedrick, D. M., Tabachnick, B. G., Abdul-Rahman, O., Adam, et al
2020
 - **Fetal Alcohol Spectrum Disorders in a Southeastern County of the United States: Child Characteristics and Maternal Risk Traits.** *Alcoholism, clinical and experimental research*
May, P. A., Hasken, J. M., Stegall, J. M., Mastro, H. A., Kalberg, W. O., Buckley, D., Brooks, M., Hedrick, D. M., Ortega, M. A., Elliott, A. J., Tabachnick, B. G., Abdul-Rahman, O., Adam, et al
2020
 - **Fetal Alcohol Spectrum Disorders in a Rocky Mountain Region City: Child Characteristics, Maternal Risk Traits, and Prevalence.** *Alcoholism, clinical and experimental research*

- May, P. A., Hasken, J. M., Bozeman, R., Jones, J., Burns, M. K., Goodover, J., Kalberg, W. O., Buckley, D., Brooks, M., Ortega, M. A., Elliott, A. J., Hedrick, D. M., Tabachnick, et al
2020
- **Large-scale targeted sequencing identifies risk genes for neurodevelopmental disorders.** *Nature communications*
Wang, T. n., Hoekzema, K. n., Vecchio, D. n., Wu, H. n., Sulovari, A. n., Coe, B. P., Gillentine, M. A., Wilfert, A. B., Perez-Jurado, L. A., Kvarnung, M. n., Sleyp, Y. n., Earl, R. K., Rosenfeld, et al
2020; 11 (1): 4932
 - **Fetal Alcohol Spectrum Disorders in a Pacific Southwest City: Maternal and Child Characteristics.** *Alcoholism, clinical and experimental research*
Chambers, C. D., Coles, C., Kable, J., Akshoomoff, N., Xu, R., Zellner, J. A., Honerkamp-Smith, G., Manning, M. A., Adam, M. P., Jones, K. L.
2019
 - **Xq22 deletions and correlation with distinct neurological disease traits in females: further evidence for a contiguous gene syndrome.** *Human mutation*
Hijazi, H., Coelho, F. S., Gonzaga-Jauregui, C., Bernardini, L., Mar, S. S., Manning, M. A., Hanson-Kahn, A., Naidu, S., Srivastava, S., Lee, J. A., Jones, J. R., Friez, M. J., Alberico, et al
2019
 - **Mutation update for the SATB2 gene** *HUMAN MUTATION*
Zarate, Y. A., Bosanko, K. A., Caffrey, A. R., Bernstein, J. A., Martin, D. M., Williams, M. S., Berry-Kravis, E. M., Mark, P. R., Manning, M. A., Bhambhani, V., Vargas, M., Seeley, A. H., Estrada-Veras, et al
2019; 40 (8): 1013–29
 - **Acute leukemia in a patient with 15q overgrowth syndrome** *AMERICAN JOURNAL OF MEDICAL GENETICS PART A*
Bodle, E. E., Gupta, R., Cherry, A. M., Muffly, L., Manning, M. A.
2019; 179 (6): 1025–29
 - **Acute leukemia in a patient with 15q overgrowth syndrome.** *American journal of medical genetics. Part A*
Bodle, E. E., Gupta, R., Cherry, A. M., Muffly, L., Manning, M. A.
2019
 - **Clinical Presentation of a Complex Neurodevelopmental Disorder Caused by Mutations in ADNP** *BIOLOGICAL PSYCHIATRY*
Van Dijck, A., Vulto-van Silfhout, A. T., Cappuyns, E., van der Werf, I. M., Mancini, G. M., Tzschach, A., Bernier, R., Gozes, I., Eichler, E. E., Romano, C., Lindstrand, A., Nordgren, A., Kvarnung, et al
2019; 85 (4): 287–97
 - **Perinatal distress in 1p36 deletion syndrome can mimic hypoxic ischemic encephalopathy.** *American journal of medical genetics. Part A*
Carter, L. B., Battaglia, A. n., Cherry, A. n., Manning, M. A., Ruzhnikov, M. R., Bird, L. M., Dowsett, L. n., Graham, J. M., Alkuraya, F. S., Hashem, M. n., Dinulos, M. B., Vallee, S. n., Adam, et al
2019
 - **Early-Life Predictors of Fetal Alcohol Spectrum Disorders.** *Pediatrics*
Kalberg, W. O., May, P. A., Buckley, D. n., Hasken, J. M., Marais, A. S., De Vries, M. M., Bezuidenhout, H. n., Manning, M. A., Robinson, L. K., Adam, M. P., Hoyme, D. B., Parry, C. D., Seedat, et al
2019
 - **Mutation update for the SATB2 gene.** *Human mutation*
Zarate, Y. A., Bosanko, K. A., Caffrey, A. R., Bernstein, J. A., Martin, D. M., Williams, M. S., Berry-Kravis, E. M., Mark, P. R., Manning, M. A., Bhambhani, V. n., Vargas, M. n., Seeley, A. H., Estrada-Veras, et al
2019
 - **Heart transplantation in two adolescents with Danon disease.** *Pediatric transplantation*
Oren, D., Chau, P., Manning, M., Kwong, J., Kaufman, B. D., Maeda, K., Rosenthal, D. N., Hollander, S. A.
2018: e13335
 - **PRENATAL ULTRASOUND FINDINGS CONSISTENT WITH NAGER SYNDROME ALLOW FOR IMPROVED PREGNANCY MANAGEMENT**
Allain, M., Manning, M., Bernstein, J., Enns, G., Alsaleh, N., Derar, N., Hudgins, L.
WILEY.2018: 1488–89

- **Prevalence of Fetal Alcohol Spectrum Disorders in 4 US Communities** *JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION*
May, P. A., Chambers, C. D., Kalberg, W. O., Zellner, J., Feldman, H., Buckley, D., Kopald, D., Hasken, J. M., Xu, R., Honerkamp-Smith, G., Taras, H., Manning, M. A., Robinson, et al
2018; 319 (5): 474–82
- **Prevalence of Fetal Alcohol Spectrum Disorders in 4 US Communities.** *JAMA*
May, P. A., Chambers, C. D., Kalberg, W. O., Zellner, J., Feldman, H., Buckley, D., Kopald, D., Hasken, J. M., Xu, R., Honerkamp-Smith, G., Taras, H., Manning, M. A., Robinson, et al
2018; 319 (5): 474-482
- **Bi-allelic ADPRHL2 Mutations Cause Neurodegeneration with Developmental Delay, Ataxia, and Axonal Neuropathy.** *American journal of human genetics*
Danhauser, K. n., Alhaddad, B. n., Makowski, C. n., Piekutowska-Abramczuk, D. n., Syrbe, S. n., Gomez-Ospina, N. n., Manning, M. A., Kostera-Pruszyk, A. n., Krahn-Peper, C. n., Berutti, R. n., Kovács-Nagy, R. n., Gusic, M. n., Graf, et al
2018; 103 (5): 817–25
- **Who is most affected by prenatal alcohol exposure: Boys or girls?** *Drug and alcohol dependence*
May, P. A., Tabachnick, B., Hasken, J. M., Marais, A. S., de Vries, M. M., Barnard, R., Joubert, B., Cloete, M., Botha, I., Kalberg, W. O., Buckley, D., Burroughs, Z. R., Bezuidenhout, et al
2017; 177: 258-267
- **Variable clinical course of identical twin neonates with Alström syndrome presenting coincidentally with dilated cardiomyopathy.** *American journal of medical genetics. Part A*
Hollander, S. A., Alsaleh, N., Ruzhnikov, M., Jensen, K., Rosenthal, D. N., Stevenson, D. A., Manning, M.
2017; 173 (6): 1687-1689
- **Replication of High Fetal Alcohol Spectrum Disorders Prevalence Rates, Child Characteristics, and Maternal Risk Factors in a Second Sample of Rural Communities in South Africa.** *International journal of environmental research and public health*
May, P. A., de Vries, M. M., Marais, A., Kalberg, W. O., Buckley, D., Adnams, C. M., Hasken, J. M., Tabachnick, B., Robinson, L. K., Manning, M. A., Bezuidenhout, H., Adam, M. P., Jones, et al
2017; 14 (5)
- **in a patient with a complex connective tissue phenotype.** *Cold Spring Harbor molecular case studies*
Zastrow, D. B., Zornio, P. A., Dries, A., Kohler, J., Fernandez, L., Waggott, D., Walkiewicz, M., Eng, C. M., Manning, M. A., Farrelly, E., Fisher, P. G., Ashley, E. A., Bernstein, et al
2017; 3 (1)
- **The continuum of fetal alcohol spectrum disorders in a community in South Africa: Prevalence and characteristics in a fifth sample.** *Drug and alcohol dependence*
May, P. A., Marais, A., de Vries, M. M., Kalberg, W. O., Buckley, D., Hasken, J. M., Adnams, C. M., Barnard, R., Joubert, B., Cloete, M., Tabachnick, B., Robinson, L. K., Manning, et al
2016; 168: 274-286
- **Analysis of CYP1B1 in pediatric and adult glaucoma and other ocular phenotypes** *MOLECULAR VISION*
Reis, L. M., Tyler, R. C., Weh, E., Hendee, K. E., Kariminejad, A., Abdul-Rahman, O., Ben-Omran, T., Manning, M. A., Yesilyurt, A., McCarty, C. A., Kitchner, T. E., Costakos, D., Semina, et al
2016; 22: 1229-1238
- **Breastfeeding and maternal alcohol use: Prevalence and effects on child outcomes and fetal alcohol spectrum disorders.** *Reproductive toxicology*
May, P. A., Hasken, J. M., Blankenship, J., Marais, A., Joubert, B., Cloete, M., de Vries, M. M., Barnard, R., Botha, I., Roux, S., Doms, C., Gossage, J. P., Kalberg, et al
2016; 63: 13-21
- **Updated Clinical Guidelines for Diagnosing Fetal Alcohol Spectrum Disorders.** *Pediatrics*
Hoyme, H. E., Kalberg, W. O., Elliott, A. J., Blankenship, J., Buckley, D., Marais, A., Manning, M. A., Robinson, L. K., Adam, M. P., Abdul-Rahman, O., Jewett, T., Coles, C. D., Chambers, et al
2016; 138 (2)
- **Fetal Alcohol Spectrum Disorders and Assessment of Maxillary and Mandibular Arc Measurements** *AMERICAN JOURNAL OF MEDICAL GENETICS PART A*
Abell, K., May, W., May, P. A., Kalberg, W., Hoyme, H. E., Robinson, L. K., Manning, M., Jones, K. L., Abdul-Rahman, O.

2016; 170 (7): 1763-1771

- **Prenatally Diagnosed Cases of Binder Phenotype Complicated by Respiratory Distress in the Immediate Postnatal Period.** *Journal of ultrasound in medicine*
Blumenfeld, Y. J., Davis, A. S., Hintz, S. R., Milan, K., Messner, A. H., Barth, R. A., Hudgins, L., Chueh, J., Homeyer, M., Bernstein, J. A., Enns, G., Atwal, P., Manning, et al
2016; 35 (6): 1353-1358
- **The continuum of fetal alcohol spectrum disorders in four rural communities in south africa: Prevalence and characteristics.** *Drug and alcohol dependence*
May, P. A., de Vries, M. M., Marais, A., Kalberg, W. O., Adnams, C. M., Hasken, J. M., Tabachnick, B., Robinson, L. K., Manning, M. A., Jones, K. L., Hoyme, D., Seedat, S., Parry, et al
2016; 159: 207-218
- **in pediatric and adult glaucoma and other ocular phenotypes.** *Molecular vision*
Reis, L. M., Tyler, R. C., Weh, E., Hendee, K. E., Kariminejad, A., Abdul-Rahman, O., Ben-Omran, T., Manning, M. A., Yesilyurt, A., McCarty, C. A., Kitchner, T. E., Costakos, D., Semina, et al
2016; 22: 1229-1238
- **RTTN Mutations Cause Primary Microcephaly and Primordial Dwarfism in Humans.** *American journal of human genetics*
Shamseldin, H., Alazami, A. M., Manning, M., Hashem, A., Caluseiu, O., Tabarki, B., Esplin, E., Schelley, S., Innes, A. M., Parboosingh, J. S., Lamont, R., Majewski, J., Bernier, et al
2015; 97 (6): 862-8
- **RTTN Mutations Cause Primary Microcephaly and Primordial Dwarfism in Humans** *AMERICAN JOURNAL OF HUMAN GENETICS*
Shamseldin, H., Alazami, A. M., Manning, M., Hashem, A., Caluseiu, O., Tabarki, B., Esplin, E., Schelley, S., Innes, A. M., Parboosingh, J. S., Lamont, R., Majewski, J., Bernier, et al
2015; 97 (6): 862-868
- **Prevalence and characteristics of fetal alcohol syndrome and partial fetal alcohol syndrome in a Rocky Mountain Region City.** *Drug and alcohol dependence*
May, P. A., Keaster, C., Bozeman, R., Goodover, J., Blankenship, J., Kalberg, W. O., Buckley, D., Brooks, M., Hasken, J., Gossage, J. P., Robinson, L. K., Manning, M., Hoyme, et al
2015; 155: 118-127
- **Neonatal Pulmonary Arterial Hypertension and Noonan Syndrome: Two Fatal Cases with a Specific RAF1 Mutation** *AMERICAN JOURNAL OF MEDICAL GENETICS PART A*
Hopper, R. K., Feinstein, J. A., Manning, M. A., Benitz, W., Hudgins, L.
2015; 167A (4): 882-885
- **Neonatal pulmonary arterial hypertension and Noonan syndrome: two fatal cases with a specific RAF1 mutation.** *American journal of medical genetics. Part A*
Hopper, R. K., Feinstein, J. A., Manning, M. A., Benitz, W., Hudgins, L.
2015; 167A (4): 882-885
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