Dmitry A. Lyalin, PhD, FACMG

Assistant Professor of Pathology
Associate Director of Cytogenetics and Molecular Diagnostics
Office: 804-628-4886
Email: dmitry.lyalin@vcuhealth.org

Education

BS, MSc, Moscow State University, Russia
PhD, Texas A&M University
ABMGG Fellowship, Children's Mercy Hospital

Licenses & Certifications

2017 American Board of Medical Genetics and Genomics, Clinical Cytogenetics
2019 American Board of Medical Genetics and Genomics, Clinical Molecular Genetics

Recent Invited Presentations

"Implementation of precision medicine in population health" Chapel Hill, NC, October 2024

Selected Publications

Peer Reviewed Papers

Galdon G., Pourhabibi Zarandi N., Deebel, N., Zhang, S., Cornett, O., **Lyalin, D.,** Pettenati, M., Lue Y., Wang, C., Swerdloff, R., Shupe, T., Bishop, C., Stogner, K., Kogan, S., Howards, S., Atala, A., and Sadri-Ardekani, H. "*In vitro* Generation of Haploid Germ Cells from Human XY and XXY Immature Testes in a 3D Organoid System", Bioengineering 2024, 11, 677

Lyalin, D., Romanov, Y., "A *de novo* interstitial 19q13.12q13.32 duplication: Report of a novel patient and literature review", Genetics in Medicine, 2024, 101632, P728

Fenu E, Beaty M, Insuasti-Beltran G, Pettenati M, **Lyalin D** "A Unique Case of der(16)t(1;16) Identified in B-Lymphoblastic Leukemia", Atlas Genet Cytogenet Oncol Haematol. 2021-10-27

Repnikova E, **Lyalin D**, McDonald K, et al., "CNTN6 copy number variations: Uncertain clinical significance in individuals with neurodevelopmental disorders", European Journal of Medical Genetics, 2020 Jan;63(1):103636

Roberts J, **Lyalin D**, Tosatto N, Rana P, Fadoul H, Welsh H, Zhang L, Cooley L, Repnikova E "Novel mosaic SRY gene deletions in three newborn males with variable genitourinary malformations", Am J Med Genet A. 2018 Jul 28

Posters/Abstracts

"Chimerism in DNA of saliva, buccal, urine and eyebrow specimens from pediatric recipients after allogeneic hematopoietic stem cell transplantation (aHSCT): implication for DNA-based molecular testing", AMP Annual Meeting, Vancouver, Canada, November 2024

"Unusual Glomerular Abnormalities in a Patient with Combined COL4A5-NPHS1 Variants", American Society of Nephrology, Kidney Week 2024, October 2024

"The Sanford Health Preemptive Genetic Screening Program - Allele Frequencies for Recurrent variants in CDC Tier 1 Diseases, CYP2C19, and Others", ACMG 2020 Annual Meeting, San-Antonio, TX

"The Sanford Health Preemptive Genetic Screening", ACMG 2019 Annual Meeting, Seattle, WA, April 2019

"First Report of Loss of Function in MID2: A Case of MID2-Related X-linked Intellectual Disability", ACMG 2018 Annual Meeting, Charlotte, NC, April 2018