CURRICULUM VITAE

Nada Derar, MD
Tel: 203-4353314
Nada.Derar@yale.edu

Version date: Feb/01/2024
Nationality: Saudi Arabia

Education:

07/2000-08/2006 MD: M.B.B.S, Umm Al Qura University, Saudi Arabia

Career/Academic Appointments:

11/2006-05/2007 Resident, Pediatric, Security forces hospital, Riyadh
07/2009-06/2010 Postdoctoral Fellow in Neurogenetics, Wayne State University, Detroit, MI
07/2010-06/2011 Research Assistant, Center for Molecular Medicine and Genetics, Detroit, MI
09/2011-08/2012 Intern, Internal Medicine, University of Toledo, Toledo, OH
09/2012-08/2014 Resident, Internal Medicine, University of Toledo, Toledo, OH
09/2014-06/2016 Clinical Genetics Fellow, Stanford University, Stanford, CA
09/2016-06/2017 Medical Biochemical Genetics Fellow, Stanford University, Stanford, CA
03/2018-11/2018 Assistant Professor, Department of Pediatric, Medical Genetics Division, Medical College of Wisconsin, Milwaukee, WI
12/2018-11/2019 Associate Consultant, Medical Genomics Department, Center of Genomic Medicine, King Faisal Specialist Hospital, Riyadh, Saudi Arabia
11/2019- 12/2022 Consultant, Medical Genomics Department, Center of Genomic Medicine, King Faisal Specialist Hospital, Riyadh, Saudi Arabia
08/2020-present Assistant Professor, Alfaisal University, Pharmacogenomics, Riyadh, Saudi Arabia
12/2022-present Assistant Professor and Clinical geneticist Yale University School of Medicine, Genetics Department.

Administrative Positions:

02/2019-01/2020 Program Director of Medical Genetics Fellowship, Center of Genomic Medicine, King Faisal Specialist Hospital, Riyadh, Saudi Arabia

2021-2022 Chairman, Enzyme Replacement Task Force, King Faisal Specialist Hospital and Research Center, Riyadh, Saudi Arabia

Board Certification:

2016 American Board of Internal Medicine
2017 American Board of Medical Genetics and Genomics
2019 American Board of Medical Biochemical Genetics

Professional Honors & Recognition:

2005 Best Attendance of Morning Report, Department of Medicine, King Khalid National Guard Hospital, Jeddah, Saudi Arabia
2005 Appreciation Certificate for Elective Participation during Pilgrimage Season, Al Noor Specialist Hospital, Makkah, Saudi Arabia
2006 Appreciation Certificate for participation in Learning Skill course conducted for the 1st-year medical student, Umm Al Qura University, Makkah, Saudi Arabia
2012 1st place Award in Practice Based Learning and Improvement Research project, University of Toledo, Toledo, OH

Peer-Reviewed Presentations & Symposia Given at Meetings Not Affiliated with Yale:

International/National

1. "Renal complication in longitudinal evaluation of patients with Cobalamin G disease" at American College of Medical Genetics meeting, Tampa, FL, 2015 (Poster presentation).
2. "A novel de novo mutation in *CACNA1A* is associated with atypical neurological features and mitochondrial dysfunction" at West Society of Pediatric Research meeting, Carmel, CA, 2016 (Oral presentation).
3. "Ciliopathies: Lessons learned from the world's largest molecular characterized cohort" at David W. Smith Workshop, UCLA conference Center in Lake Arrowhead, CA, 2016 (Oral presentation).
4. "Postnatal Confirmation of mosaic Trisomy 17 in cardiac tissue in an infant with congenital heart disease: Case report and Review of the Literature" at West Society of Pediatric Research meeting, Carmel, CA, 2017 (Oral presentation).
5. "De novo truncating variants in WHSC1 recapitulate the Wolf-Hirschhorn (4p16.3 microdeletion) syndrome phenotype" at David W. Smith Workshop, Canada, August 2018 (Oral presentation).
6. "Whole Exome Sequencing As First Tier Test in Fetal Malformation" at David W. Smith Workshop, Utah, 2019 (Oral presentation).
7. Genetics of Epilepsy: An Overview for Adult Neurologists, Grand Round, University of Toledo, OH, USA October 2023.

Professional Service

Hospital Committees***:***

2019-2021 Member, Establishment of Center of Genomic Medicine Committee, King Faisal Specialist Hospital, Riyadh, Saudi Arabia
2019- 2022 Member, Prenatal and Preimplantation Genetics Diagnosis Working Group , King Faisal Specialist Hospital, Riyadh, Saudi Arabia
2020- 2022 Member, Artificial intelligence Task Force, King Faisal Specialist Hospital, Riyadh, Saudi Arabia

Professional Organizations:

2021-present Member of Clinical Cancer Genomic Community of Practice (CCGCoP), City of Hope, Division of Clinical Cancer Genomic, Duarte, CA

Bibliography:

Peer-Reviewed Original Research

1. Goustin AS, **Derar N**, Abou-Samra AB.
Ahsg-fetuin blocks the metabolic arm of insulin action through its interaction with the 95-kD ß-subunit of the insulin receptor. Cell Signal 2013.
PMID: 23314177, DOI: 10.1016/j.cellsig.2012.12.011.

2. Chowdhury MA, **Derar N**, Hasan S, Hinch B, Ratnam S, Assaly R.
Acyclovir-Induced Neurotoxicity: A Case Report and Review of Literature. Am J Ther. 2016.
PMID: 24942005, DOI:10.1097/MJT.0000000000000093.

3. **Derar N**, Al-Hassnan ZN, Al-Owain M, Alkuraya FS.
De novo truncating variants in WHSC1 recapitulate the Wolf-Hirschhorn (4p16.3 microdeletion) syndrome phenotype. Genet Med. 2018.
PMID: 29892088, DOI: 10.1038/s41436-018-0014-8.

4. Shaheen R, Szymanska K, Basu B, Patel N, Ewida N, Faqeih E, Al Hashem A, **Derar N**, Alsharif H, Aldahmesh MA, Alazami AM, Hashem M, Ibrahim N, Abdulwahab FM, Sonbul R, Alkuraya H, Alnemer M, Al Tala S, Al-Husain M, Morsy H, Seidahmed MZ, Meriki N, Al-Owain M, AlShahwan S, Tabarki B, Salih MA; Ciliopathy WorkingGroup; Faquih T, El-Kalioby M, Ueffing M, Boldt K, Logan CV, Parry DA, Al Tassan N, Monies D, Megarbane A, Abouelhoda M, Halees A, Johnson CA, Alkuraya FS.
Characterizing the morbid genome of ciliopathies. Genome Biol. 2016
PMID: 27894351, DOI: 10.1186/s13059-016-1099-5.

5. Maddirevula S, Kuwahara H, Ewida N, Shamseldin HE, Patel N, Alzahrani F, AlSheddi T, AlObeid E, Alenazi M, Alsaif HS, Alqahtani M, AlAli M, Al Ali H, Helaby R, Ibrahim N, Abdulwahab F, Hashem M, Hanna N, Monies D, **Derar N**, Afaf Alsagheir , Amal Alhashem, Badr Alsaleem , Hamoud Alhebbi, Sami Wali , Ramzan Umarov , Xin Gao , Fowzan S Alkuraya
Analysis of transcript-deleterious variants in Mendelian disorders: implications for RNA-based diagnostics. Genome Biol. 2020.
PMID: 32552793, DOI: 10.1186/s13059-020-02053-9.

6. Sheppard SE, Campbell IM, Harr MH, Gold N, Li D, Bjornsson HT, Cohen JS, Fahrner JA, Fatemi A, Harris JR, Nowak C, Stevens CA, Grand K, Au M, Graham JM Jr, Sanchez-Lara PA, Campo MD, Jones MC, Abdul-Rahman O, Alkuraya FS, Bassetti JA, Bergstrom K, Bhoj E, Dugan S, Kaplan JD, **Derar N,** Dina J Zand, Marni J Falk, Hakon Hakonarson, Elaine H Zackai, Fabiola Quintero-Rivera.
Expanding the genotypic and phenotypic spectrum in a diverse cohort of 104 individuals with Wiedemann-Steiner syndrome. Am J Med Genet A. 2021.
PMID:33783954, DOI: 10.1002/ajmg.a.62124.

7. Mohamed H Al-Hamed, Wesam Kurdi, Rubina Khan, Maha Tulbah, Maha AlNemer, Nada AlSahan, Maisoon AlMugbel, Rafiullah Rafiullah, Mirna Assoum, Dorota Monies, Zeeshan Shah, Zuhair Rahbeeni, **Nada Derar**, Abrar AlKhalifah, Mohamed Abouelhoda , Khushnooda Ramzan, John A Sayer, Faiqa Imtiaz.
Prenatal exome sequencing and chromosomal microarray analysis in fetal structural anomalies in a highly consanguineous population reveals a propensity of ciliopathy genes causing multisystem phenotypes. Hum Genet 2022.
PMID: 34853893, DOI: 10.1007/s00439-021-02406-9.

8. Shamseldin HE, **Derar N**, Alzaidan H, AlHathal N, Alfalah A, Abdulwahab F, Alzaid T, Alkeraye S, Alobaida SA, Alkuraya FS.
PRSS8, encoding prostasin, is mutated in patients with autosomal recessive ichthyosis.
Hum Genet. 2023
PMID: 36715754, DOI: 10.1007/s00439-023-02527-3

9. Altassan R, Sulaiman RA, Alfalah A, Alwagiat W, Megdad E, Alqasabi D, Handoom B, Almesned M, Al-Amri H, Alhassnan Z, Alsayed MA, Alzaidan H, Rahbeeni Z, **Derar N**, Al-Owain M, Albanyan E.
Eur J Med Genet. 2022
PMID: 36049607, DOI: 10.1016/j.ejmg.2022.104602

10. AlAbdi L, Maddirevula S, Shamseldin HE, Khouj E, Helaby R, Hamid H, Almulhim A, Hashem MO, Abdulwahab F, Abouyousef O, Alqahtani M, Altuwaijri N, Jaafar A, Alshidi T, Alzahrani F; Mendeliome Group; Alkuraya FS.
Diagnostic implications of pitfalls in causal variant identification based on 4577 molecularly characterized families.
Nat Commun. 2023
PMID: 37644014, DOI: 10.1038/s41467-023-40909-3