Hassan Saei, MSc. PhD.

Imagine Institute of Genetic Diseases
Laboratory of Hereditary Kidney Diseases (U1163), 75015 PARIS
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EDUCATION

Université Paris Cité, Institut Pasteur, France *2021-2024*
Ph.D. in Genetics
Bio Sorbonne Paris Cite, DGNRV department
Fellowship from PPU-Imagine Program

Iran University of Medical Sciences, Iran *2017-2020*
M.Sc. in Human Genetics
Overall GPA: 4

University of Tabriz, Iran *2013-2017*
B.Sc. in Biology
Overall GPA: 3.8

** All credentials are evaluated by WES

PROFESSIONAL EXPERIENCES

Imagine Institute of Genetic Diseases, Paris, France Jan 2025 - Present
Postdoctoral Researcher *Paris, France*

· Research Focus: AAV targeted therapy development for podocytopathies in partnership with Sanofi, and White-Lab Genomics

Oct 2021 - Dec 2024
Ph.D. Candidate *Paris, France*

· Research Focus: Improving genetic diagnosis in herediatry renal diseases and development of robust models for therapy development

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ANALYTIC AND COMPUTATIONAL SKILLS

Programing Languages	Python, R/Markdown, Bash, High Performance Computing, Git
Workflow Managment	Docker, Singularity
Big Data Analysis	RNA-seq, scRNA-seq, scATAC-seq, Proteomics
Sequence analysis	GATK, deepVariant, CADD, SIFT, MutationTaster, IGV
Stem cell research	hiPSC Maintanance and Differentiation
Disease models	Organoids, Murine model Development

AWARDS, SCHOLARSHIPS AND FUNDINGS

- Pasteur-Paris University International Ph.D. Fellowship, France (PPU-Imagine, 2021)
- Poster Prize winner, NephGen Symposium, Freiburg, Germany, 2023
- Travel award winner, 14th International Podocyte Conference, PA, USA, 2023
- Silver medal and 2nd place, National Biology Olympiad for undergraduate students, Ministry of Higher Education, Iran

- Outstanding Student Award in Basic Science, University of Tabriz, Ministry of Higher Education, Iran
- Iran National Elite's Foundation Conference Travel Award, 2018
- 1st class honour in the B.Sc. (ranked 1/31 students), University of Tabriz, Iran

PEER-REVIEWED PUBLICATIONS

1. Saei H, Estebe B, Gaudin N, Esmailpour M, Haure J, Gribouval O, Arrondel C, Moriniere V, Tian P, Lennon R, Antignac C, Mollet G, Dorval G. Therapeutic splice modulation of COL4A5 reinstates collagen IV assembly in an organoid model of X-linked Alport syndrome. *bioRxiv*. 2025. [Link]
2. Kachmar J*, Saei H*, Morinière V, Heidet L, Knebelmann B, Gribouval O, Mautret-Godefroy M, Burtey S, Vuiblet V, Alla A, Ibalanky A, Moranne O, Nizon M, Savenkoff B, Nitschké P, Antignac C, Dorval G. Phenotypic Heterogeneity of ADTKD-MUC1 Diagnosed Using VNtyper, a Novel Genetic Technique *American Journal of Kidney Diseases*. 2025. (*co-first authors) [Link]
3. Saei H, Masson C, Morinière V, Kachmar J, Heidet L, Gribouval O, Antignac C, Dorval G. Using VNtyper from whole exome sequencing data to detect pathogenic variants in the MUC1 gene. *JASN*. 2024. [Link]
4. Boisson M, Arrondel C, Cagnard N, Morinière V, Arkoub ZA, Saei H, Heidet L, Kachmar J, Hummel A, Knebelmann B, Bonnet-Dupeyron MN, Isidor B, Izzedine H, Legrand E, Couarch P, Gribouval O, Bole-Feysot C, Parisot M, Nitschké P, Antignac C, Dorval G. A wave of deep intronic mutations in X-linked Alport syndrome. *Kidney Int*. 2023 Aug; 104(2):367-377. [Link]
5. Saei H, Morinière V, Heidet L, Gribouval O, Lebbah S, Tores F, Mautret-Godefroy M, Knebelmann B, Burtey S, Vuiblet V, Antignac C, Nitschké P, Dorval G. VNtyper enables accurate alignment-free genotyping of MUC1 coding VNTR using short-read sequencing data in autosomal dominant tubulointerstitial kidney disease. *iScience*. 2023 Jun 17; 26(7):107171. [Link]
6. Abiri M*, Saei H*, Eghbali M, Karamzadeh R, Shirzadeh T, Sharifi Z, Zeinali S. Maple syrup urine disease mutation spectrum in a cohort of 40 consanguineous patients and in silico analysis of novel mutations. *Metab Brain Dis*. 2019 Aug; 34(4):1145-1156. (*co-first authors) [Link]
7. Saei H, Govahi A, Abiri A, Eghbali M, Abiri M. Comprehensive transcriptome mining identified the gene expression signature and differentially regulated pathways of the late-onset preeclampsia. *Pregnancy Hypertens*. 2021 Aug; 25:91-102. [Link]
8. Eghbali M, Fatemi KS, Salehpour S, Abiri M, Saei H, Talebi S, Olyaei NA, Yassaee VR, Modarressi MH. Whole-Exome Sequencing Uncovers Novel Causative Variants and Additional Findings in Three Patients Affected by Glycogen Storage Disease Type VI and Fanconi-Bickel Syndrome. *Front Genet*. 2021 Jan 11; 11:601566. [Link]
9. Jabbarpour N*, Saei H*, Jabbarpoor Bonyadi MH, Bonyadi M. Identification of novel cis-mutations in the GJA8 gene in a 3-generation Iranian family with autosomal dominant congenital nuclear cataract. *Ophthalmic Genet*. 2022 Oct; 43(5):609-614. (*co-first authors)

SELECTED SCIENTIFIC PRESENTATIONS

Section content...

MEMBERSHIPS AND CONFERENCE PROCEEDINGS

- The American College of Medical Genetics and Genomics (ACMG) — Member, 2023–Present
- The American Society of Human Genetics (ASHG) — Member, 2023–Present
- The European Society of Human Genetics (ESHG) — Member
- Poster presentation at NephGen Symposium, Freiburg, Germany, 2023 (*Poster Prize winner)

- Oral presentation at the Podocyte Meeting, Philadelphia, PA, USA, 2023 (*Travel Award winner, presented online)
- Poster presentation at ESHG Conference, Milan, Italy, 2018

REFERENCES

- **Corinne Antignac, M.D., Ph.D.**
  Professor and Director
  Laboratory of Hereditary Kidney Diseases, INSERM U1163, Imagine Institute, Paris, France
  Email: Corinne.antignac@inserm.fr
- **Geraldine Mollet, Ph.D.**
  Associate Professor, HDR (Ph.D. Supervisor)
  Laboratory of Hereditary Kidney Diseases, INSERM U1163, Imagine Institute, Paris, France
  Email: Geraldine.mollet@inserm.fr
- **Guillaume Dorval, M.D., Ph.D.**
  Assistant Professor (Ph.D. Co-supervisor)
  Laboratory of Hereditary Kidney Diseases, INSERM U1163, Imagine Institute, Paris, France
  Genetics Department, Faculty of Medicine, University Paris Cité, France
  Email: guillaume.dorval@inserm.fr, guillaume.dorval@aphp.fr
- **Saeed Talebi, M.D., Ph.D.**
  Associate Professor (Human Genetics Program Director)
  Medical Genetics Department, Faculty of Medicine, Iran University of Medical Sciences, Tehran, Iran
  Email: Talebi.s@iums.ac.ir