

Hui WAN

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PhD education

2019-Present	Ph.D. in Medical Science, Karolinska Institutet, Sweden
Expecting defence date	Sep 13th, 2024
Research project:	Genetics and prognosis models: towards personalized therapy for patients with B cell lymphomas
Fields:	Cancer, Immunology, Bioinformatics

Previous education and degrees

2013-2016	M.Sc. in Biotechnology, Jiangnan University, China (<i>Microbiology, Bioinformatics</i>)
2009-2013	B.Sc. in Bioengineering, Jiangxi Agricultural University, China (<i>Biotechnology</i>)

Industrial experience

2017-2019	Bioinformatician , Shanghai Abmart Antibody Co. Ltd., China
	<ul style="list-style-type: none"> Integrating proteomics and transcriptomics for discovering biomarkers in lung cancer; Constructing the bioinformatics online platform (http://baal.ab-mart.com/apps/HOMEPAGE/).
2016-2017	Bioinformatician , Majorbio NGS Sequencing Co. Ltd., China
	<ul style="list-style-type: none"> Developed multi-omics (Transcriptomics Proteomics & Metabolomics) analysis pipeline.

Grants

2019-2023	KI-CSC Scholarship
2021	Radiumhemmet Forskningsfonden
2023	Cancerfonden
2023	KI travel grants

Skills

Life science: Immunology, Cancer, Bioinformatics, Microbiology

Bioinformatics: scRNAseq, scBCRseq, bulk WGS, bulk RNAseq, Proteomics, public databases, statistics, modeling

Computer: R & Python programming, Linux & Mac, Illustrator & BioRender graphic tools

Language: Chinese, English

Publications

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- García-Vega M*, **Wan H***, Reséndiz-Sandoval M, Hinojosa-Trujillo D, Valenzuela O, Mata-Haro V, Dehesa-Canseco F, Solís-Hernández M, Marcotte H, Pan-Hammarström Q, Hernández J. Comparative single-cell transcriptomic profile of hybrid immunity induced by adenovirus vector-based COVID-19 vaccines. *GENES IMMUN.* 2024;25(2):158-167. (**co-first author*)
 - Ren W*, **Wan H***, Own S*, Berglund M, Wang X, Yang M, Li X, Liu D, Ye X, Sonnevli K, Enblad G, Amini R-M, Sander B, Wu K, Zhang H, Wahlin B, Smedby K, Pan-Hammarström

- Q. Genetic and transcriptomic analyses of diffuse large B-cell lymphoma patients with poor outcomes within two years of diagnosis. *LEUKEMIA*. 2024;38(3):610-620. (**co-first author*)
3. Sherina N*, Piralla A*, Du L*, **Wan H***, Kumagai-Braesch M, Andréll J, Braesch-Andersen S, Cassaniti I, Percivalle E, Sarasini A, Bergami F, Di Martino R, Colaneri M, Vecchia M, Sambo M, Zuccaro V, Bruno R, Sachs M, Oggionni T, Meloni F, Abolhassani H, Bertoglio F, Schubert M, Byrne-Steele M, Han J, Hust M, Xue Y, Hammarström L, Baldanti F, Marcotte H, Pan-Hammarström Q. Persistence of SARS-CoV-2-specific B and T cell responses in convalescent COVID-19 patients 6-8 months after the infection. *MED*. 2021;2(3):281-295.e4. (**co-first author*)
 4. Strunz B, Maucourant C, Mehta A, **Wan H**, Du L, Sun D, Chen P, Nordlander A, Gao Y, Cornillet M, Bister J, Kvedaraite E, Christ W, Klingström J, Geanon D, Parke Å, Ekwall-Larson A, Rivino L, MacAry P, Aleman S, Buggert M, Ljunggren H-G, Pan-Hammarström Q, Lund-Johansen F, Strålin K, Björkström N, Karolinska KI/K COVID-19 Study Group. Type I Interferon Autoantibodies Correlate With Cellular Immune Alterations in Severe COVID-19. *J INFECT DIS*. 2024;jiae036.
 5. Ye X, Maglione P, Wehr C, Li X, Wang Y, Abolhassani H, Deripapa E, Liu D, Borte S, Du L, **Wan H**, Plötner A, Giannoula Y, Ko H-B, Hou Y, Zhu S, Grossman J, Sander B, Grimbacher B, Hammarström L, Fedorova A, Rosenzweig S, Shcherbina A, Wu K, Warnatz K, Cunningham-Rundles C, Pan-Hammarström Q. Genomic characterization of lymphomas in patients with inborn errors of immunity. *BLOOD ADV*. 2022;6(18):5403-5414.
 6. Zuo F, Abolhassani H, Du L, Piralla A, Bertoglio F, de Campos-Mata L, **Wan H**, Schubert M, Cassaniti I, Wang Y, Sammartino J, Sun R, Vlachiotsis S, Bergami F, Kumagai-Braesch M, Andréll J, Zhang Z, Xue Y, Wenzel E, Calzolari L, Varani L, Rezaei N, Chavoshzadeh Z, Baldanti F, Hust M, Hammarström L, Marcotte H, Pan-Hammarström Q. Heterologous immunization with inactivated vaccine followed by mRNA-booster elicits strong immunity against SARS-CoV-2 Omicron variant. *NAT COMMUN*. 2022;13(1):2670.
 7. Ren W, Wang X, Yang M, **Wan H**, Li X, Ye X, Meng B, Li W, Yu J, Lei M, Xie F, Jiang W, Kimby E, Huang H, Liu D, Li Z-M, Wu K, Zhang H, Pan-Hammarström Q. Distinct clinical and genetic features of hepatitis B virus-associated follicular lymphoma in Chinese patients. *BLOOD ADV*. 2022;6(9):2731-2744.
 8. Marcotte H, Piralla A, Zuo F, Du L, Cassaniti I, **Wan H**, Kumagai-Braesch M, Andréll J, Percivalle E, Sammartino J, Wang Y, Vlachiotsis S, Attevall J, Bergami F, Ferrari A, Colaneri M, Vecchia M, Sambo M, Zuccaro V, Asperges E, Bruno R, Oggionni T, Meloni F, Abolhassani H, Bertoglio F, Schubert M, Calzolari L, Varani L, Hust M, Xue Y, Hammarström L, Baldanti F, Pan-Hammarström Q. Immunity to SARS-CoV-2 up to 15 months after infection. *ISCIENCE*. 2022;25(2):103743.
 9. Björkander S, Du L, Zuo F, Ekström S, Wang Y, **Wan H**, Sherina N, Schoutens L, Andréll J, Andersson N, Georgelis A, Bergström A, Marcotte H, Kull I, Hammarström L, Melén E, Pan-Hammarström Q, BAMSE COVID-19 study group. SARS-CoV-2-specific B- and T-cell immunity in a population-based study of young Swedish adults. *J ALLERGY CLIN IMMUNOL*. 2022;149(1):65-75.e8.

Ongoing projects/manuscripts

1. **Wan H**, Ren W, Yang M, Li X, Wasik A, Du L, Leire de Campos Mata, Nie M, Yang C, Ye X, Li W, Yang Z, Ansell S, Liu D, Burg M, Wu K, Sander B, Pan-Hammarström Q. **Tumor evolution in primary and relapse mantle cell lymphoma.** (*Manuscript*)
2. **Wan H***, Ren W*, Yang M, Ye X, Nie M, Li X, Liu D, Wang X, Sander B, Li W, Maura F, Wu K, Li Z, Zhang H, Yeap L, Pan-Hammarström Q. **Mutational signature analysis of nine types of B-cell malignancies.** (*Manuscript*)

3. Du L*, Oksenyich V*, **Wan H***, Ye X*, Dong J, Ye A, Abolhassani H, Vlachiotis S, Zhang X, Rosa K, Hammarström L, Burg M, Alt F, Pan-Hammarström Q. **Orientation regulation of class switch recombination in human B cells.** (*Under revision*)
4. **Wan H***, Weber D*, Piralla A*, Takada S*, Du L*, Zuo F, Sun R, Cassaniti I, Sherina N, Percivalle E, Sarasini A, Bergami F, Martino R, Colaneri M, Vecchia M, Sambo M, Zuccaro V, Bruno R, Sachs M, Oggionni T, Meloni F, Feng L, Byrne-Steele M, Grönwall C, Chen L, Klareskog L, Han J, Hammarström L, Baldanti F, Burg M, Abolhassani H, Marcotte H, Pan-Hammarström Q. **Dynamics of immunoglobulin gene diversification processes after COVID-19 infection and vaccination.** (*Manuscript*)