

**Supplemental Material S1.** Search formulas and search time frames for each database.

Database	Search formula	Search time
PubMed	(("Hearing Loss*" [TIAB] OR "Hearing loss" [MeSH Terms] OR "Hearing Loss, Bilateral" [MeSH Terms] OR "Hearing Loss, Conductive" [MeSH Terms] OR "Hearing Loss, Functional" [MeSH Terms] OR "Hearing Loss, High-Frequency" [MeSH Terms] OR "Hearing Loss, Mixed Conductive-Sensorineural" [MeSH Terms] OR "Hearing Loss, Sensorineural" [MeSH Terms] OR "Hearing Loss, Central" [MeSH Terms] OR "Hearing Loss, Noise-Induced" [MeSH Terms] OR "Hearing Loss, Sudden" [MeSH Terms] OR "Hearing Loss, Unilateral" [MeSH Terms] OR "Hearing Disorders" [TIAB] OR "Hearing Disorders" [MeSH Terms] OR "Deafness*" [TIAB] OR "Deafness" [MeSH Terms] OR "Hypoacusis" [TIAB] OR "Deaf Mutism" [TIAB] OR "Deaf-Blind Disorder*" [TIAB] OR "Deaf-Blind Disorders" [MeSH Terms] OR "Usher Syndromes" [TIAB] OR "Usher Syndromes" [MeSH Terms] OR "Wolfram Syndrome" [TIAB] OR "Hearing Impairment" [TIAB] OR "Presbycusis" [TIAB] OR "Presbycusis" [MeSH Terms]) AND ("Gene*" [TIAB] OR "Genes" [MeSH Terms] OR "DNA*" [TIAB] OR "Genetic*" [TIAB] OR "Genetics" [MeSH Terms] OR "Cytogenetics" [TIAB] OR "Cytogenetics" [MeSH Terms] OR "Genetic Research" [MeSH Terms] OR "Genomics" [TIAB] OR "Genomics" [MeSH Terms] OR "Human Genetic*" [TIAB] OR "Human Genetics" [MeSH Terms] OR "Heredit*" [TIAB]) OR ("Genetic Hearing Loss" [TIAB])	1961.1.1- 2021.12.31

WoS Core Collection	(TS=("Hearing Loss*" OR "Deafness*" OR "Hypoacusis" OR "Deaf Mutism" OR "Deaf-Blind Disorder" OR "Usher Syndromes" OR "Wolfram Syndrome" OR "Hearing Impairment" OR "Presbycusis") AND TS=("Genetic*" OR "Genomics" OR "Cytogenetics" OR "Heredit*")) OR TS=("Genetic Hearing Loss")	1961.1.1 - 2021.12.31
Embase	((('Hearing Loss*':ab OR 'Deafness*':ti,ab,kw OR 'Hypoacusis':ti ,ab,kw OR 'Deaf Mutism':ti,ab,kw OR 'Deaf-Blind Disorder':ti,ab,kw OR 'Usher Syndromes':ti,ab,kw OR 'Wolfram Syndrome':ti,ab,kw OR 'Hearing Impairment': ti,ab,kw OR 'Presbycusis':ti,ab,kw) AND ('Genetic*':ti,ab,kw OR 'Gene*':ti,ab,kw OR 'DNA*':ti,ab,kw OR 'Genomics':ti,ab,kw OR 'Cytogenetics':ti,ab,kw OR 'Heredit*':ti,ab,kw OR 'Human Genetics':ti,ab,kw) OR 'Genetic Hearing Loss':ti,ab,kw) AND [ embase]/lim )	1961.1.1 - 2021.12.31