

Table S1. Search terms of databases (from 1/1/2010 to 31/12/2023).

Database	Search term	Number
PubMed	((ovary) OR (follicle) OR (oocyte) OR (fallopian tube) OR (oviduct) OR (uterus) OR (endometrium) OR (womb) OR (hystera) OR (vagina) OR (cervix) OR (embryo) OR (placenta) OR (fetal membrane) OR (amnion) OR (decidua)) AND ((microfluidic) OR (chip))	2,750
Scopus	(TITLE-ABS-KEY (ovary OR follicle OR oocyte OR fallopian tube OR oviduct OR uterus OR endometrium OR womb OR hystera OR vagina OR cervix OR embryo OR placenta OR fetal membrane OR amnion OR decidua) AND TITLE-ABS-KEY (microfluidic OR chip))	4,673
Web of Science	TS=(ovary or follicle or oocyte or fallopian tube or oviduct or uterus or endometrium or womb or hystera or vagina or cervix or embryo or placenta or fetal membrane or amnion or decidua) AND TS=(microfluidic or chip)	6,546
ScienceDirect	Title, abstract, keywords: (ovary OR follicle OR oocyte OR fallopian tube OR oviduct OR uterus OR endometrium OR womb OR hystera OR vagina OR cervix OR embryo OR placenta OR fetal membrane OR amnion OR decidua) AND (microfluidic OR chip)	512
IEEE Xplore	(("ovary" OR "follicle" OR "oocyte" OR "fallopian tube" OR "oviduct" OR "uterus" OR "endometrium" OR "womb" OR "hystera" OR "vagina" OR "cervix" OR "embryo" OR "placenta" OR "fetal membrane" OR "amnion" OR "decidua") AND ("microfluidic" OR "chip"))	188