



Bilaga 1 till rapport

Fosterdiagnostik för utökad analys av kromosomer –
sekvenser, rapport nr 247

Appendix 1 search strategies/Bilaga 1 sökstrategier

Cinahl via EBSCO 19 August 2015

Title: Chromosomal microarray analysis and next generation sequencing for prenatal diagnosis

Search terms	Items found
Prenatal diagnosis	
1. MH "Prenatal Diagnosis" OR MH "Genetic Screening"	9416
2. TI ((prenatal OR "pre-natal" OR antenatal) n4 (diagnos* OR detect* OR predict* OR prognos* OR test OR tests OR testing OR screen*)) OR amniocentesis OR chorionic Villi sampling OR "nuchal translucency measurement" OR "maternal serum screening test") OR AB ((prenatal OR "pre-natal" OR antenatal) n3 (diagnos* OR detect* OR predict* OR prognos* OR test OR tests OR testing OR screen*)) OR amniocentesis OR chorionic Villi sampling OR "nuchal translucency measurement" OR "maternal serum screening test")	3754
3. TI (NIPT OR NIPD OR NIDT OR NIFTY OR "cell-free dna" OR "fetal dna" OR "cff dna" OR cffdna OR "cf dna" OR cfdna OR "f dna" OR fdna OR "ff dna" OR ffdna OR "maternal serum screening test" OR (maternal w2 plasm*) OR ((noninvasiv* OR "non-invasive") n3 (prenatal OR "pre-natal" OR antenatal OR diagnos* OR detect* OR predict* OR prognos* OR test OR tests OR testing)) OR AB (NIPT OR NIPD OR NIDT OR NIFTY OR "cell-free dna" OR "fetal dna" OR "cff dna" OR cffdna OR "cf dna" OR cfdna OR "f dna" OR fdna OR "ff dna" OR ffdna OR "maternal serum screening test" OR (maternal w2 plasm*) OR ((noninvasiv* OR "non-invasive") n4 (prenatal OR "pre-natal" OR antenatal OR diagnos* OR detect* OR predict* OR prognos* OR test OR tests OR testing))	2291
4. 1 OR 2 OR 3	13634
Chromosomal microarray analysis and next generation sequencing	
5. MH "Nucleic Acid Hybridization+" OR MH "Microarray Analysis+"	2269
6. TI ("comparative genomic hybridization*" OR "comparative genome hybridization*" OR cgh OR ((chromosom* OR DNA OR cytogenetic OR genomic OR "genome-wide" OR snps OR snp OR "single nucleotide polymorphism*") n4 (array* OR microarray* OR "micro-array*")) OR acgh OR "oligo-aCGH" OR "whole sequenc*" OR "complete sequenc*" OR "entire sequenc*" OR "full sequenc*" OR ((whole OR complete OR entire) n4 (genome OR genomic)) OR "genome sequenc*" OR "genomic sequenc*" OR "massive parallel sequenc*" OR "high-through sequenc*" OR ngs OR nps OR (("next generation" OR exome) n4 sequenc*) OR AB ("comparative genomic hybridization*" OR "comparative genome hybridization*" OR cgh OR ((chromosom* OR DNA OR cytogenetic OR genomic OR "genome-wide" OR snps OR snp OR "single nucleotide polymorphism*") n4 (array* OR microarray* OR "micro-array*")) OR acgh OR "oligo-aCGH" OR "whole sequenc*" OR "complete sequenc*" OR "entire sequenc*" OR "full sequenc*" OR ((whole OR complete OR entire) n4 (genome OR genomic)) OR "genome sequenc*" OR "genomic sequenc*" OR "parallel sequenc*" OR "high-through sequenc*" OR ngs OR nps OR (("next generation" OR exome) n4 sequenc*)	3918
7. 5 OR 6	6013
Combined sets	
8. 4 AND 7	320
Limits	
9. Limiters - Peer Reviewed	
10. 8 AND 9	308

The search result, usually found at the end of the documentation, forms the list of abstracts.

AB = Abstract

AU = Author

DE = Term from the thesaurus

MH = Term from the "Cinahl Headings" thesaurus

MM = Major Concept

TI = Title

TX = All Text. Performs a keyword search of all the database's searchable fields



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ZC = Methodology Index

* = Truncation

“ ” = Citation Marks; searches for an exact phrase



Bilaga 1 till rapport

Fosterdiagnostik för utökad analys av kromosomer –
sekvenser, rapport nr 247

Cochrane Library via Wiley 18 August 2015 (CDSR, DARE & CENTRAL)

Title: Chromosomal microarray analysis and next generation sequencing for prenatal diagnosis

Search terms	Items found
Prenatal diagnosis	
1. [mh "prenatal diagnosis"]	971
2. (prenatal or "pre-natal" or antenatal) and (diagnos* or detect* or predict* or prognos* or test or tests or testing or screen*) or amniocentesis or "chorionic Villi sampling" or "nuchal translucency measurement":ti,ab,kw (Word variations have been searched)	3231
3. 1 OR 2	3390
4. nipt or nipd or nidt or nifty or cell next/1 free next/1 dna or cell next/1 free next/1 fetal next/1 dna or "cff dna" or "cf dna" or "ff dna" or "f dna" or maternal plasm*:ti,ab,kw OR (noninvasiv* OR non NEXT/1 invasiv*) AND (prenatal OR pre next/1 natal OR diagnos* OR detect*):ti,ab,kw OR [mh "prenatal diagnosis"]	3908
5. 3 OR 4	6239
Chromosomal microarray analysis and next generation sequencing	
6. [mh "comparative genomic hybridization"] or [mh "microarray analysis"] or [mh "genome-wide association study"] or [mh "genotyping techniques"]	401
7. ("comparative genomic" next hybridization*) or ("comparative genome" next hybridization*) or cgh or bac or ("bacterial artificial" next chromosome*):ti,ab,kw or ((chromosomal* or dna or cytogenetic or genomic or 'genome-wide' or snps or "single nucleotide polymorphisms") near/4 (array* or microarray* or 'micro-array' or 'micro-arrays')) or acgh or oligo-aCGH or ((whole or complete or entire or full or parallel or 'next generation') near/4 sequenc*):ti,ab,kw (Word variations have been searched)	475
8. 6 OR 7	1252
Combined sets	
9. 5 AND 8	CDSR/3 DARE/3 Central/1 8 CRM/3 HTA/0 EED/0

The search result, usually found at the end of the documentation, forms the list of abstracts.

CDSR = Cochrane Database of Systematic Review

CENTRAL = Cochrane Central Register of Controlled Trials, "trials"

CRM = Method Studies

DARE = Database Abstracts of Reviews of Effects, "other reviews"

EED = Economic Evaluations

HTA = Health Technology Assessments



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sekvenser, rapport nr 247

Embase via Elsevier 18 August 2015

Title: Chromosomal microarray analysis and next generation sequencing for prenatal diagnosis

Search terms	Items found
Prenatal diagnosis	
1. 'prenatal diagnosis'/exp/mj	41437
2. ((prenatal OR 'pre natal' OR antenatal) NEAR/4 (diagnos* OR detect* OR predict* OR prognos* OR test OR tests OR testing OR screen*)):ti,ab	40616
3. 1 OR 2	65406
4. (nipt:ab,ti OR nipd:ab,ti OR nidt:ab,ti OR nifty:ab,ti OR 'cell-free dna':ab,ti OR 'fetal dna':ab,ti OR 'cff dna':ab,ti OR cffdna:ab,ti OR 'cf dna':ab,ti OR cfdna:ab,ti OR 'ff dna':ab,ti OR ffdna:ab,ti OR 'f dna':ab,ti OR fdna:ab,ti OR ('maternal serum screening' NEXT/1 test*):ab,ti OR (noninvasiv* OR non NEXT/1 invasiv*)) AND ('prenatal diagnosis'/exp/mj OR prenatal:ab,ti OR (pre NEXT/1 natal):ab,ti OR antenatal:ab,ti OR diagnos*:ab,ti OR detect*:ab,ti OR predict*:ab,ti OR prognost*:ab,ti)	102266
5. 3 OR 4	164164
Chromosomal microarray analysis and next generation sequencing	
6. 'comparative genomic hybridization'/exp/mj OR 'microarray analysis'/exp/mj OR 'dna microarray'/exp/mj OR 'genetic association'/exp/mj OR 'genotyping technique'/exp/mj	35863
7. (('comparative genomic' NEXT/1 hybridi?ation*) OR ('comparative genome' NEXT/1 hybridi?ation*) OR cgh OR bac OR ('bacterial artificial' NEXT/1 chromosome*)):ab,ti OR ((chromosomal* OR dna OR cytogenetic OR genomic OR 'genome-wide' OR snp OR snps OR 'single nucleotide polymorphism') NEAR/4 (array* OR microarray* OR 'micro-array' OR 'micro-arrays')):ti,ab OR (acgh:ab,ti OR oligo-aCGH OR ((whole OR complete OR entire OR full OR 'next generation' OR exome OR parallel OR 'high-through' OR ngs OR nps) NEAR/4 sequenc*)):ab,ti	122071
8. 6 OR 7	149482
Combined sets	
9. 5 AND 8	2016
Limits:	
10. ([article]/lim OR [article in press]/lim/)	
11. 9 AND 10	974

/de= Term from the EMTREE controlled vocabulary

/exp= Includes terms found below this term in the EMTREE hierarchy

/mj = Major Topic

:ab = Abstract

:au = Author

:ti = Article Title

:ti:ab = Title or abstract

* = Truncation

“ “ = Citation Marks; searches for an exact phrase “ “ = Citation Marks; searches for an exact phrase



Bilaga 1 till rapport

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PubMed via NLM 17 August 2015

Title: Chromosomal microarray analysis and next generation sequencing for prenatal diagnosis

Search terms	Items found
Prenatal diagnosis	
1. "Prenatal Diagnosis"[Mesh] OR "Amniocentesis"[Mesh] OR "Chorionic Villi Sampling"[Mesh] OR "Maternal Serum Screening Tests"[Mesh] OR "Ultrasonography, Prenatal"[Mesh] OR "Nuchal Translucency Measurement"[Mesh]	61954
2. ((prenatal[Title/Abstract] OR pre-natal[Title/Abstract] OR antenatal[Title/Abstract] AND (diagnos*[Title/Abstract] OR detect*[Title/Abstract] OR predict*[Title/Abstract] OR prognos*[Title/Abstract] OR test[Title/Abstract] OR tests[Title/Abstract] OR testing[Title/Abstract] OR screen*[Title/Abstract])) OR amniocentesis[Title/Abstract] OR chorionic villi sampling[Title/Abstract] OR nuchal translucency measurement[Title/Abstract] OR maternal serum screening test*[Title/Abstract])	59077
3. 1 OR 2	93904
4. NIPT[Title/Abstract] OR NIPD[Title/Abstract] OR NIDT[Title/Abstract] OR NIFTY[Title/Abstract] OR cell-free dna[Title/Abstract] OR fetal dna[Title/Abstract] OR cff dna[Title/Abstract] OR cffdna[Title/Abstract] OR cf dna[Title/Abstract] OR cfdna[Title/Abstract] OR f dna[Title/Abstract] OR fdna[Title/Abstract] OR ff dna[Title/Abstract] OR ffdna[Title/Abstract] OR maternal serum screening test*[Title/Abstract] OR maternal plasm*[Title/Abstract] OR ((noninvasiv*[Title/Abstract] OR non-invasiv*[Title/Abstract]) AND ("Prenatal Diagnosis"[Mesh] OR prenatal[Title/Abstract] OR pre-natal[Title/Abstract] OR antenatal[Title/Abstract] OR diagnosis[Title/Abstract] OR diagnos*[Title/Abstract] OR detect*[Title/Abstract] OR predict*[Title/Abstract] OR prognos*[Title/Abstract] OR test[Title/Abstract] OR tests[Title/Abstract] OR testing[Title/Abstract]))	83479
5. 3 OR 4	174428
Chromosomal microarray analysis and next generation sequencing	
6. "Comparative Genomic Hybridization"[Mesh] OR "Microarray Analysis"[Mesh:NoExp] OR "Oligonucleotide Array Sequence Analysis"[Mesh] OR "Genotyping Techniques"[Mesh]	85249
7. comparative genomic hybridization*[Title/Abstract] OR comparative genomic hybridisation*[Title/Abstract] OR comparative genome hybridization*[Title/Abstract] OR comparative genome hybridisation*[Title/Abstract] OR cgh[Title/Abstract] OR bac[Title/Abstract] OR bacterial artificial chromosome*[Title/Abstract] OR ((chromosom*[Title/Abstract] OR DNA[Title/Abstract] OR cytogenetic[Title/Abstract] OR genomic[Title/Abstract] OR genome-wide[Title/Abstract] OR snp[Title/Abstract] OR snps[Title/Abstract] OR single nucleotide polymorphism*[Title/Abstract]) AND (array*[Title/Abstract] OR microarray*[Title/Abstract] OR micro-array*[Title/Abstract])) OR acgh[Title/Abstract] OR oligo-aCGH[Title/Abstract] OR whole sequenc* [Title/Abstract] OR complete sequenc* [Title/Abstract] OR entire sequenc* [Title/Abstract] OR full sequenc* [Title/Abstract] OR ((whole[Title/Abstract] OR complete[Title/Abstract] OR entire[Title/Abstract]) AND (genome[Title/Abstract] OR genomic[Title/Abstract]) AND sequenc*[Title/Abstract]) OR genome sequenc*[Title/Abstract] OR genomic sequenc*[Title/Abstract] OR parallel sequenc*[Title/Abstract] OR high-through sequenc*[Title/Abstract] OR ngs[Title/Abstract] OR nps[Title/Abstract] OR ((next generation*[Title/Abstract] OR exome[Title/Abstract]) AND sequenc*[Title/Abstract])	159060
8. 6 OR 7	218074
Reviews	
9. Systematic[sb]	258201
Combined sets	
10. 5 AND 8	2042
11. 9 AND 10 Reviews	40
Limits	
12. (animals [MeSH] NOT humans [MeSH])	4031755
10 NOT 12	1954



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The search result, usually found at the end of the documentation, forms the list of abstracts.

[MeSH] = Term from the Medline controlled vocabulary, including terms found below this term in the MeSH hierarchy

[MeSH:NoExp] = Does not include terms found below this term in the MeSH hierarchy

[MAJR] = MeSH Major Topic

[Title/Abstract] = Title or abstract

[Ti] = Title

[AU] = Author

[TW] = Text Word

Systematic[SB] = Filter for retrieving systematic reviews

* = Truncation