

Microarray Data Repositories	
142 datasets	
Gene Expression Omnibus	44
Array Express	44
Center for Information Biology	54
Gene Expression Database	

Electronic Databases	
7,548 citations	
Medline	5,000
Embase	2,548

**66 excluded;**

- Duplicates across repositories
- Non-sepsis studies

**7225 excluded;**

- Animals and *in vitro* experiments
- Non-genetic studies

76 abstracts examined	
Gene Expression Omnibus	40
Array Express	36

323 abstracts examined	
Medline	105
Embase	218

**63 excluded;**

- Animals and *in vitro* experiments
- Used other tissues (e.g. spleen, platelet, brain, cord blood, lung)
- Studies on genetic polymorphism
- Studies on specific pathogens (e.g. small pox, Salmonella, Yersinia)

**293 excluded;**

- Studies on individual genes
- Studies on bacterium/virus
- Studies on other diseases

**13 experiment reports for full review**

**30 publications for full text review**

**3 excluded;**

- Duplicate dataset 1
- Not peer-reviewed 2

**12 excluded;**

- Did not use microarray 1
- Editorial 2
- HIV study 1
- Dengue fever study 1
- Malaria study 1
- Trauma study 2
- Acute lung injury study 1
- No sepsis/infection 3

**Cross-reference datasets with publications**

TOTAL	
12 cohorts	
(784 participants)	
Diagnostic studies	4
Prognostic studies	3
Functional studies	4
Combined diagnostic and functional study	1
Duplicate studies	6
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Total Publications	18