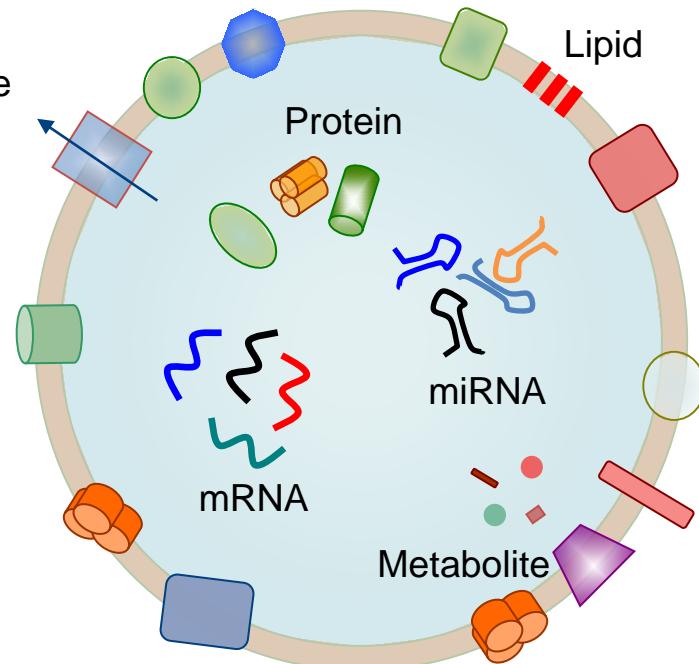


Introduction

- Archaea: Membrane Vesicles
- Bacteria
 - Gram-negative bacteria: Extracellular Vesicles, Membrane Blebs, Outer Membrane Blebs, Outer Membrane Vesicles
 - Gram-positive bacteria: Extracellular Vesicles, Membrane Vesicles
- Eukarya: Argosomes, Blebbing Vesicles, Budding Vesicles, Dexosomes, Ectosomes, Exosome-like Vesicles, Exosomes, Exovesicles, Extracellular Membrane Vesicles, Extracellular Vesicles, Matrix Vesicles, Membrane Particles, Membrane Vesicles, Microparticles, Microvesicles, Nanovesicles, Oncosomes, Prominosomes, Prostasomes, Shedding Microvesicles, Shedding Vesicles, Tolerosomes

Extracellular Vesicles



<http://evpedia.info>

Construction flow of EVpedia 2.0

Database:

Publications and principal investigators

Publications

Extracellular vesicles

Ectosomes

Exosomes

Extracellular membrane vesicles

Outer membrane vesicles

Membrane particles

Membrane vesicles

Microparticles

Microvesicles

Nanovesicles

:

+

Principal investigators

:

Database: High-throughput datasets

Datasets

Proteomes
Transcriptomes
Lipidomes
Metabolomes

Manual ID mapping

Manually curated datasets

Uniform annotations
Link to public database
- Proteome: UniProt
- mRNA: UniProt
- miRNA: miRBase

Database: Ortholog identification

EggNOG v4.5.1
miRBase R21

Orthologous groups

Whole genome sequences

H. sapiens

M. musculus

E. coli

P. aeruginosa

⋮

Ortholog clusters

Orthologous EV molecules

Analysis

Sequence search:

Protein, mRNA, and miRNA

Set analysis:

Protein, mRNA, miRNA, lipid, and metabolite

Gene Ontology enrichment analysis:

Protein, mRNA, and miRNA

Network analysis:

Protein, mRNA, and miRNA

My EVpedia

My dataset

- Private storage of datasets of interest

My analysis

- Private storage of analysis results of interest

My publication

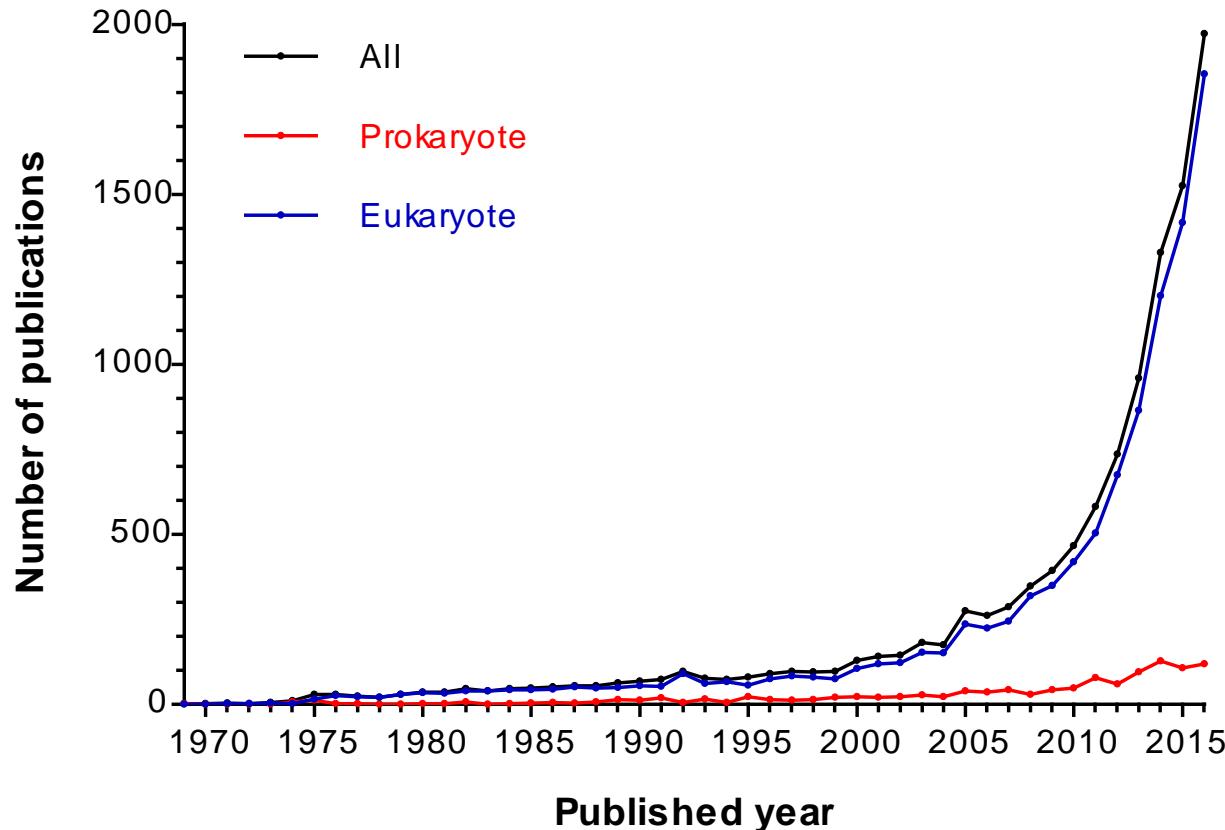
- Private storage of publications of interest

Statistics of the database

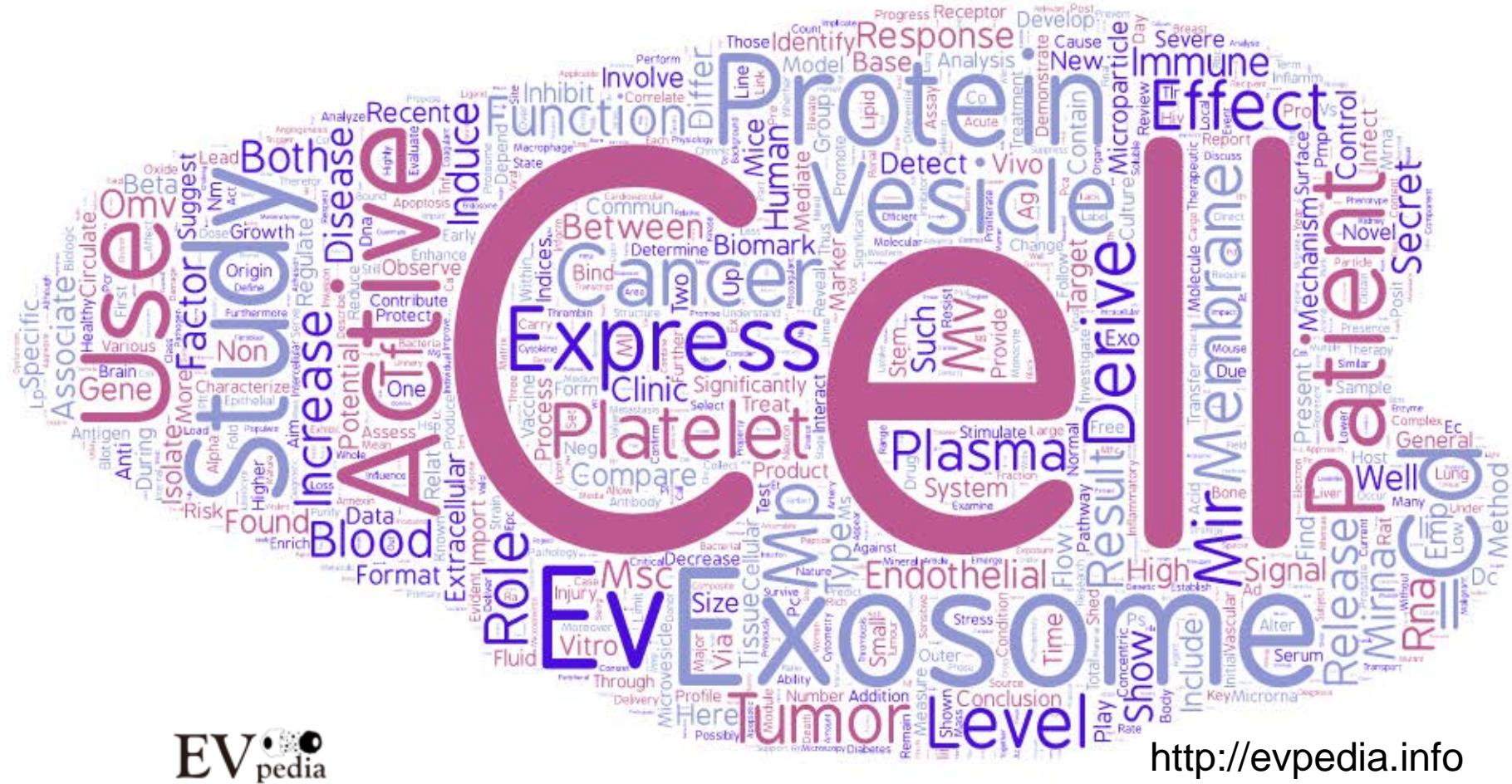
Updated on July 2017

	All	Eukaryotes	Prokaryotes
Publications			
Articles	12,384	11,146	1,238
Principal investigators	6,402	5,752	713
Proteomes			
Studies	332	259	73
Datasets	685	556	129
Proteins	439,606	408,459	31,147
Transcriptomes			
<i>mRNA</i>			
Studies	20	20	0
Datasets	34	34	0
mRNAs	92,050	92,050	0
<i>miRNA</i>			
Studies	33	33	0
Datasets	131	131	0
miRNAs	57,592	57,592	0
Lipidomes			
Studies	52	47	5
Datasets	94	85	9
Lipids	3,156	2,971	185
Metabolomes			
Studies	6	6	0
Datasets	13	13	0
Metabolites	466	466	0
Members (Countries)		1,875 (61)	
Accesses (Countries)		7,988,675 (85)	

Number of EV-related publications



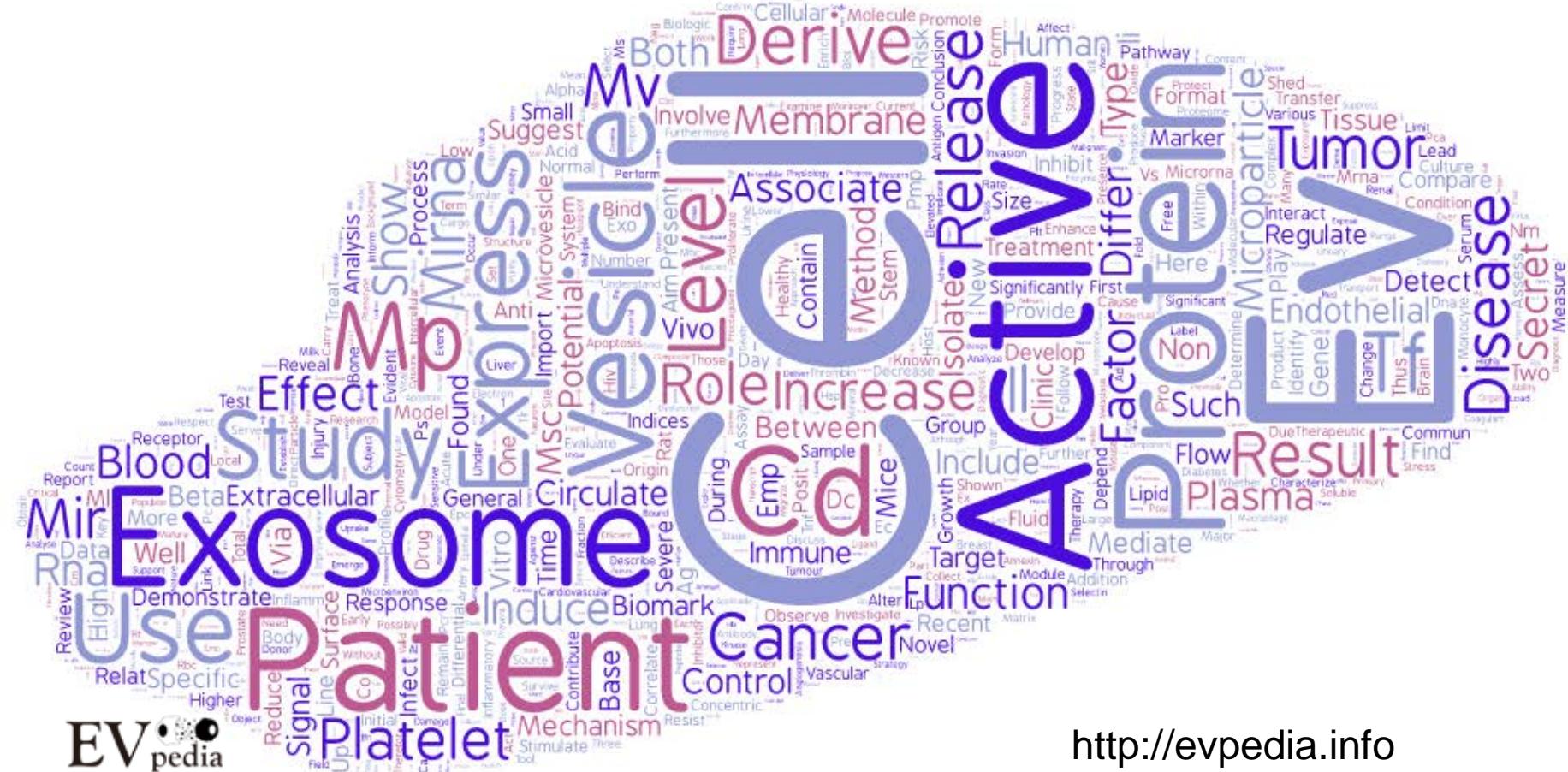
Word cloud of articles about EVs



Word cloud of articles about prokaryote-derived EVs



Word cloud of articles about eukaryote-derived EVs



<http://evpedia.info>