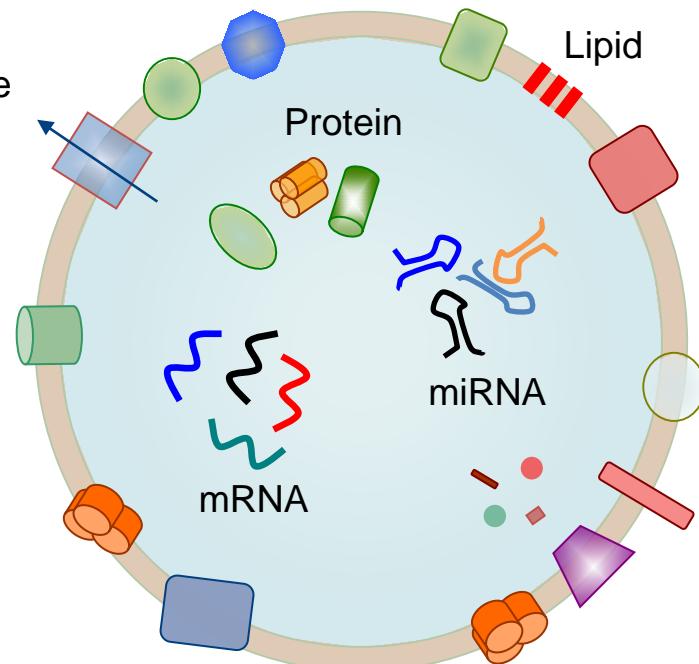


Introduction

- 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

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

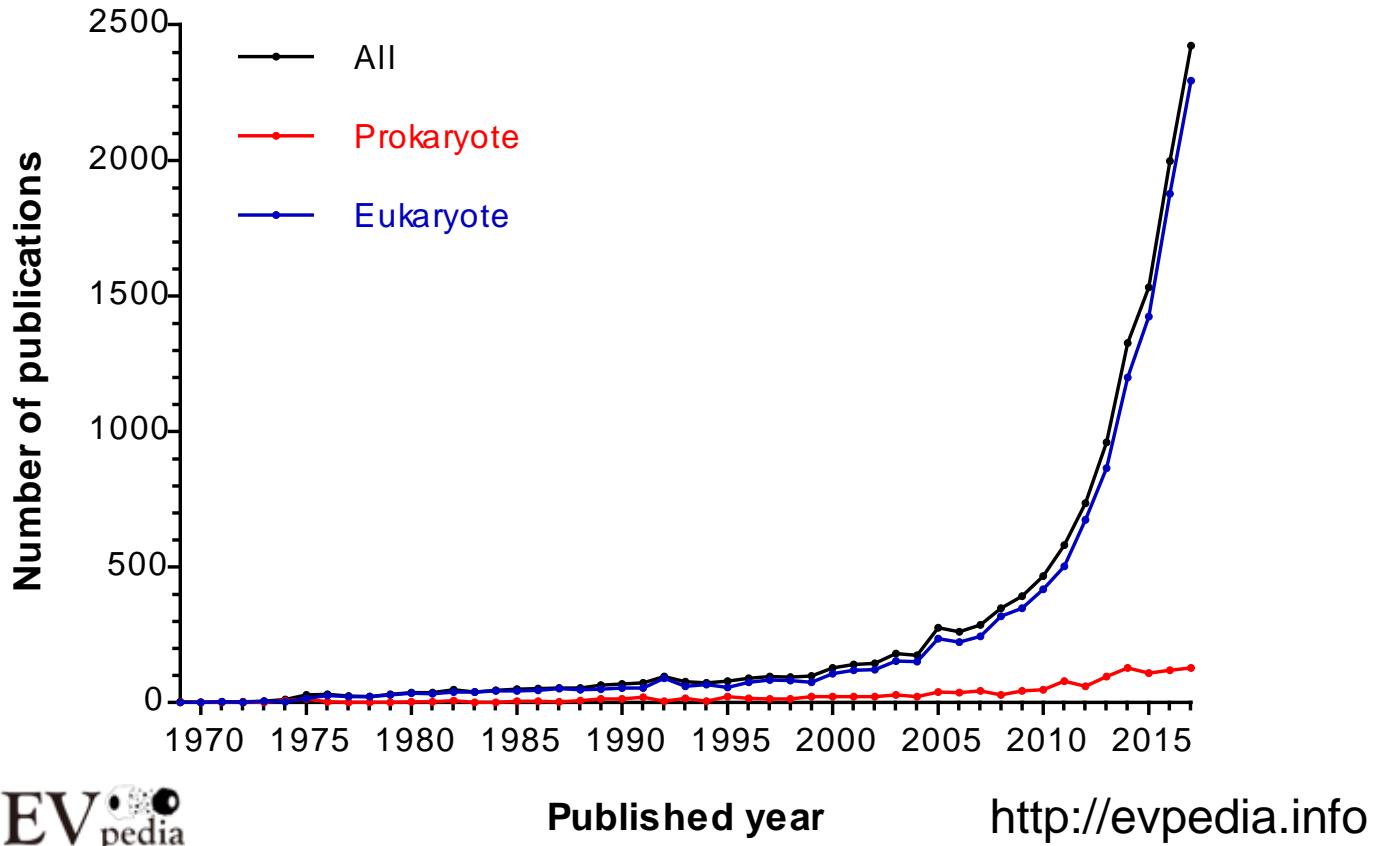
- Private storage of publications of interest

Statistics of the database

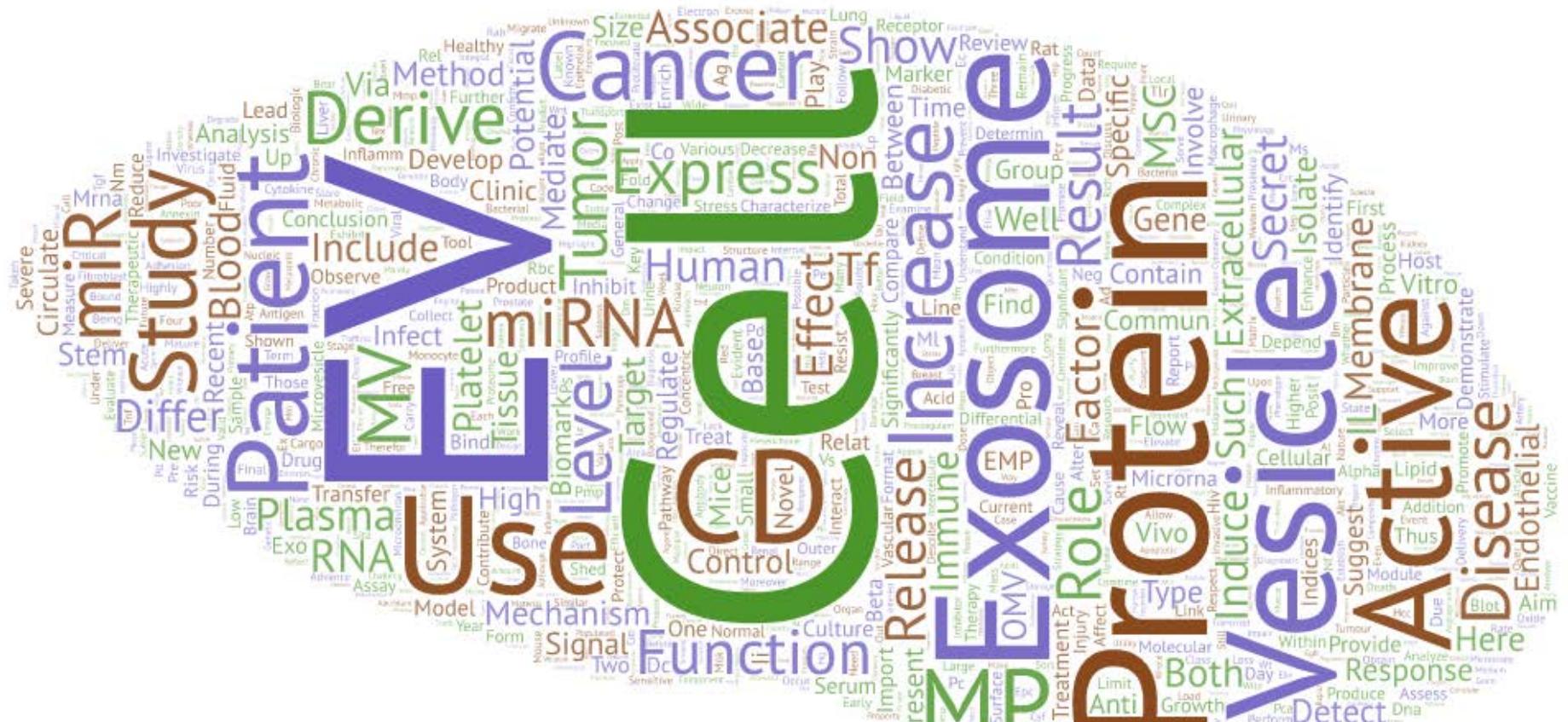
Updated on April 2018

	All	Eukaryotes	Prokaryotes
Publications			
Articles	14,192	12,865	1,327
Principal investigators	7,376	6,681	774
Proteomes			
Studies	376	296	80
Datasets	797	656	141
Proteins	558,045	524,027	34,018
Transcriptomes			
<i>mRNA</i>			
Studies	21	21	0
Datasets	36	36	0
mRNAs	94,355	94,355	0
<i>miRNA</i>			
Studies	40	40	0
Datasets	148	148	0
miRNAs	64,785	64,785	0
Lipidomes			
Studies	58	53	5
Datasets	108	99	9
Lipids	3,929	3,744	185
Metabolomes			
Studies	8	6	2
Datasets	25	21	4
Metabolites	1,437	848	613
Members (Countries)		2,445 (78)	
Accesses (Countries)		19,627,655 (88)	

Number of EV-related publications



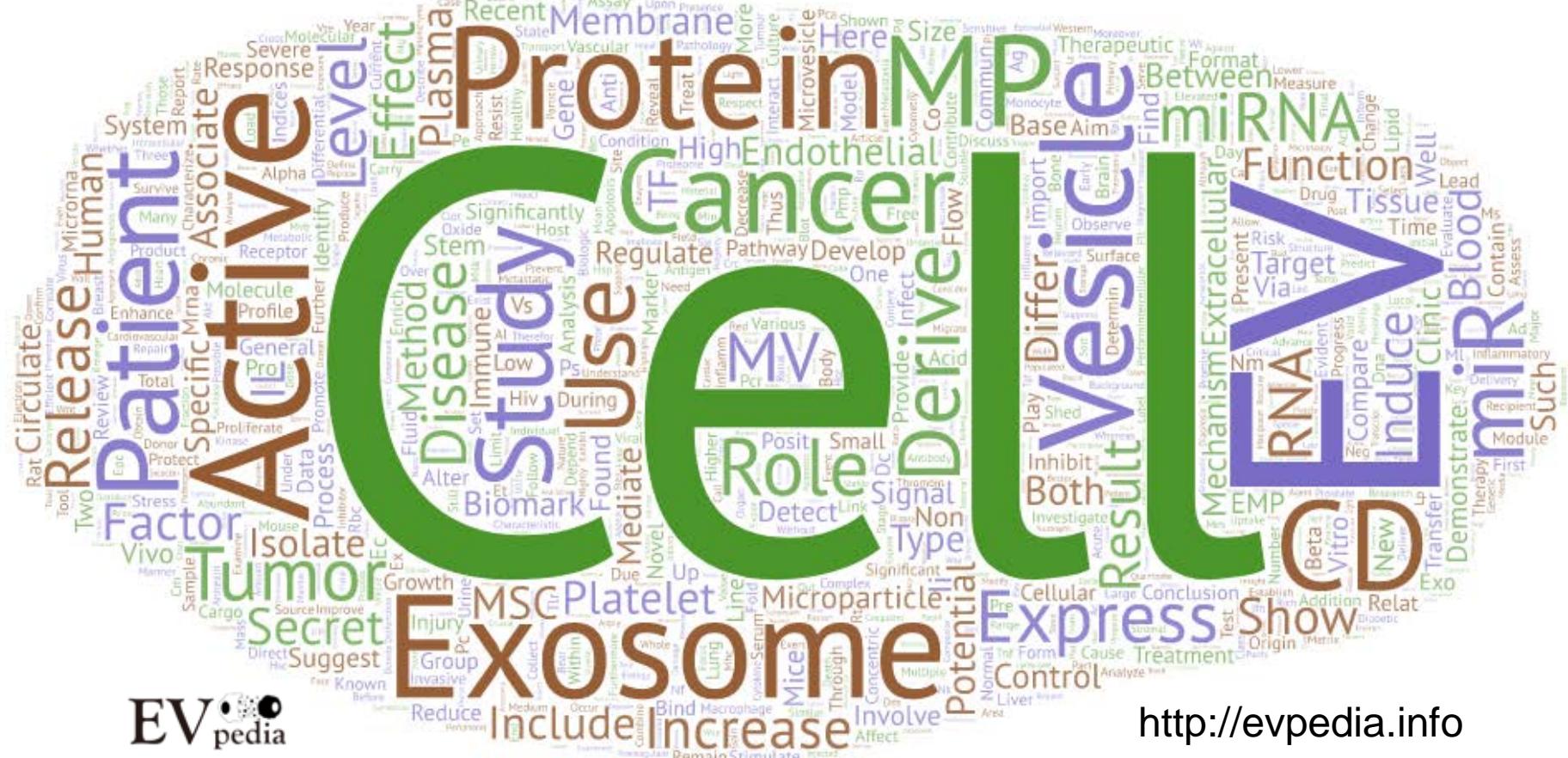
Word cloud of EV-related articles



EVpedia

<http://evpedia.info>

Word cloud of eukaryotic EV-related articles



EVpedia

<http://evpedia.info>