

**1. Are you currently using reference materials in your MV studies?**

- Yes (choose one: synthetic/biological/both)
- No

**2. I am interested to use biological reference materials with**

- Atomic Force Microscopy
- Dynamic Light Scattering / Nanoparticle Tracking Analysis
- Electron Microscopy
- Flow Cytometry
- Functional assays
- Omics
- PCR-based techniques
- Resistive Pulse Sensing
- Western blot

**3. Mark the minimum required biochemical resemblance to MVs**

- Phospholipid membrane
- Phospholipid membrane + proteins
- Phospholipid membrane + proteins + genomic material

**4. Which properties of reference material are most important to you (please rank 1-6, the most important is 6)**

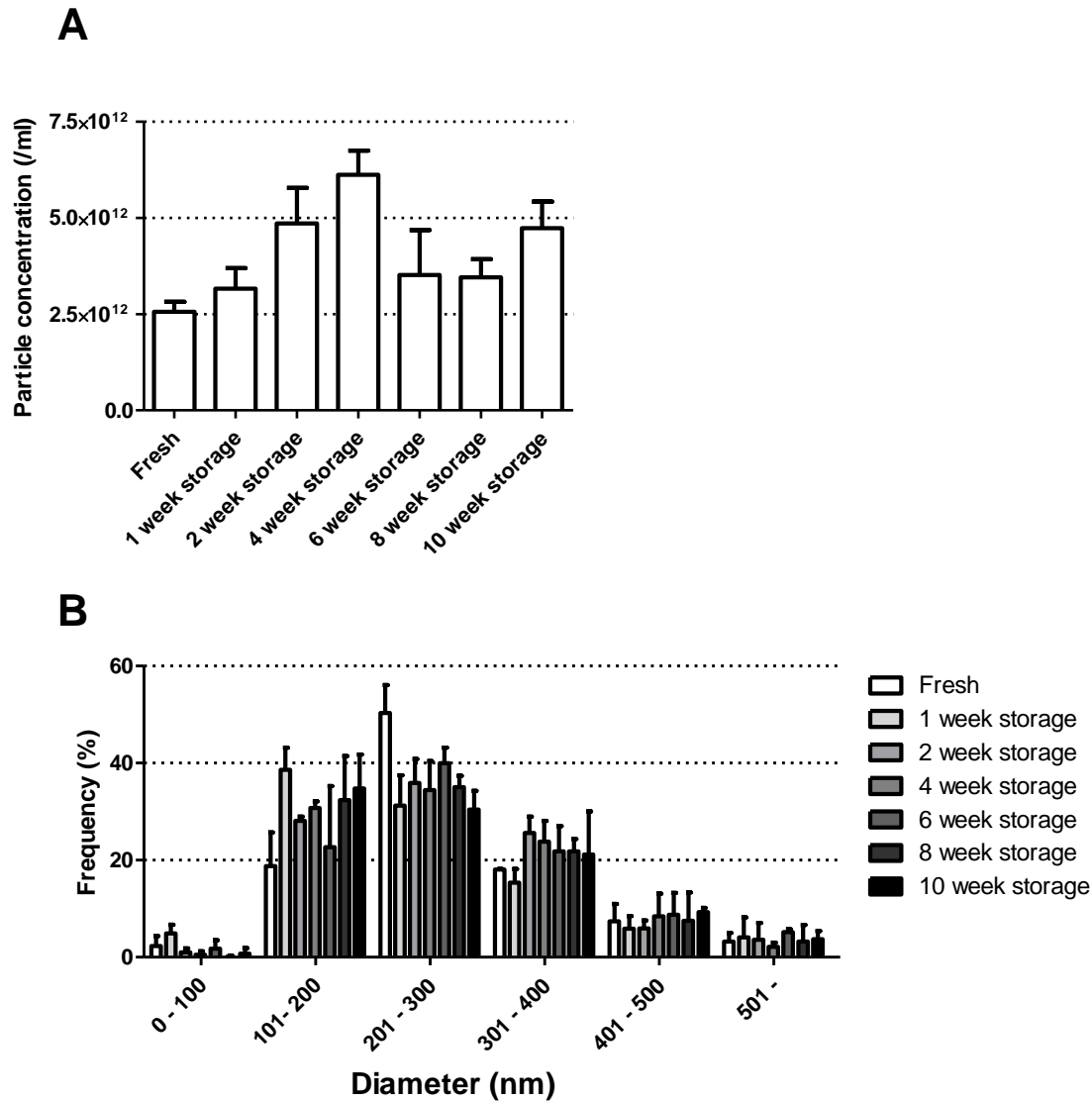
- Biochemical composition
- Monodispersity (size distribution)
- Price
- Refractive index
- Safety
- Stability
- Other: \_\_\_\_\_

**5. Would you use a plant virus or marine bacteria as a reference material?**

- Yes
- No, because \_\_\_\_\_

**6. General comments and suggestions regarding the biological reference materials:**

## **Appendix 1: the questions of questionnaire sent to 46 laboratories working with EVs.**



**Supplementary figure 1: The concentration (A) and size distribution (B) variation of nanoerythroosomes in short-term storage study as measured with Nanoparticle Tracking Analysis LM14C. Values represent mean  $\pm$  S.D., n = 3.**