The Vanderbilt Antibody & Protein Resource (VAPR) Announces A New Antibody Platform: NANOBODIES!

An attractive alternative to monoclonal antibodies.

**Nanobody Applications**
- Western/IHC
- Affinity capture reagents
- Crystallization chaperones
- Non-invasive imaging
- Spatiotemporal dynamics of endogenous protein
- Disrupt protein-protein interactions
- Modulation of activity (PAMs or NAMs)
- PROTACs
- Therapeutics

**Nanobody Advantages**
- Single Chain
- Large Libraries
- Flexibility in Selection
- Easy to Express (E. coli)
- Small Size (15 kDa)
- Cross BBB
- Heat Stable
- pH Stable

**Protocol**
1. Antigen of Interest
2. Test Plasma (or serum)
3. Isolate PBMCs
4. RNA
5. DNA
6. Nanobody
7. Sequence, Express, & Purify
8. Screen for Positive Clones
9. Phage Display

**CONTACT:** brian.wadzinski@vanderbilt.edu or vapr@vanderbilt.edu