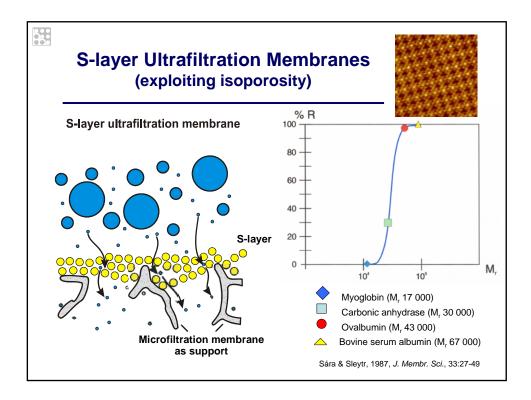
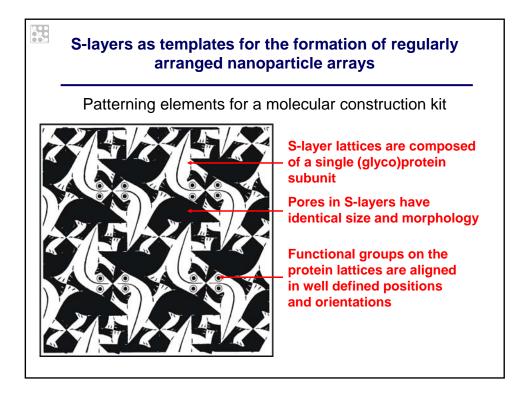


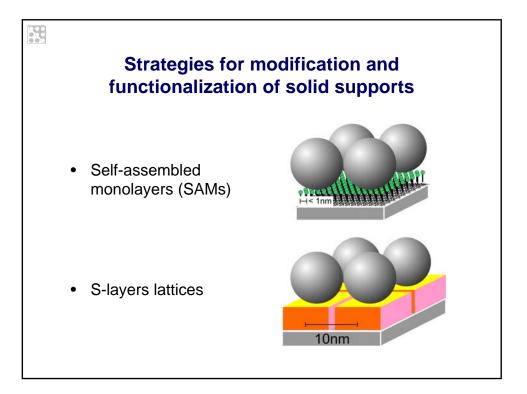


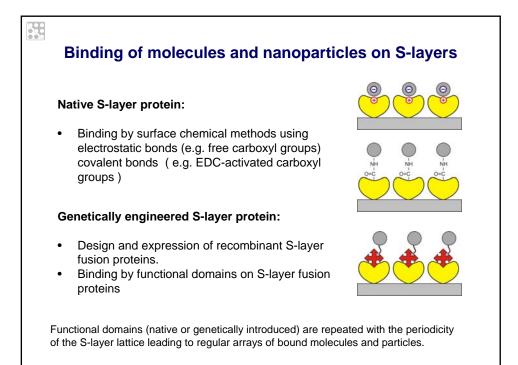
• Ultrafiltration membranes

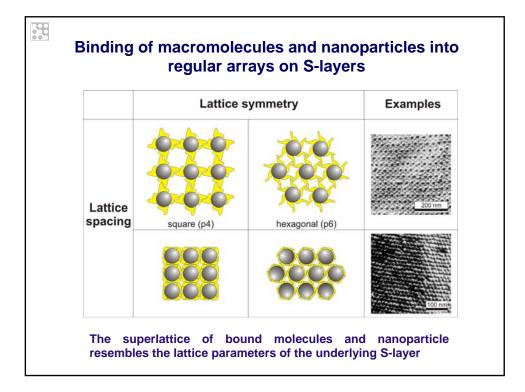
- Matrices for a well defined binding of functional molecules and nanoparticles (biosensors, nano electronics and optics).
- Supporting structure for functional lipid membranes (planar membranes, liposomes and nanocapsules).
- Drug delivery and drug targeting systems (artificial viruses).

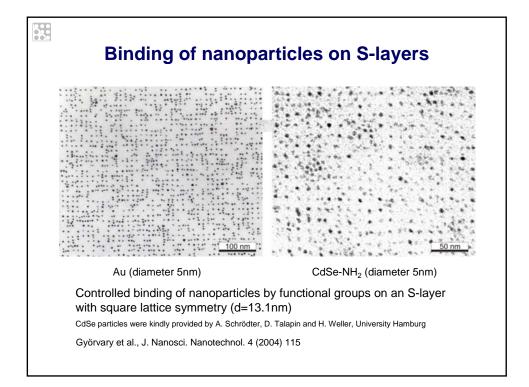


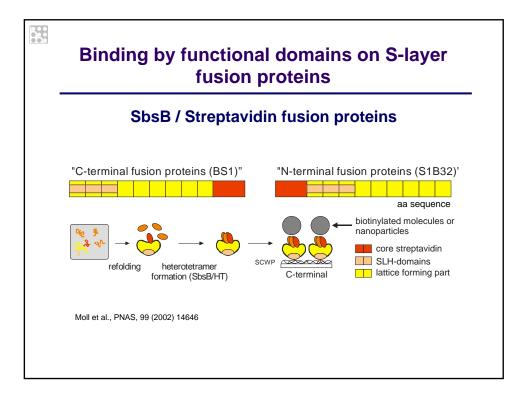


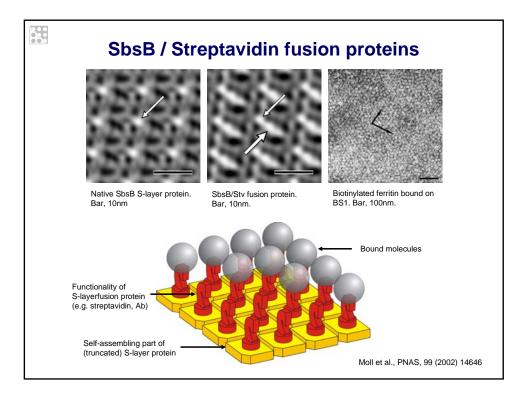




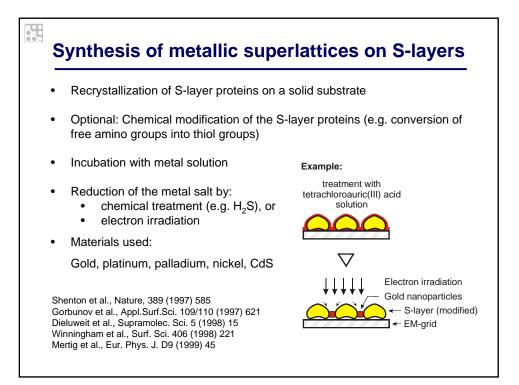


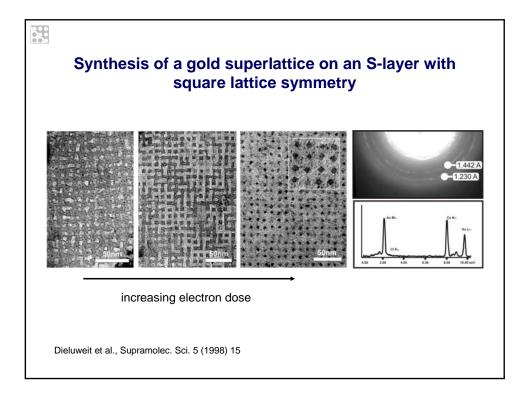


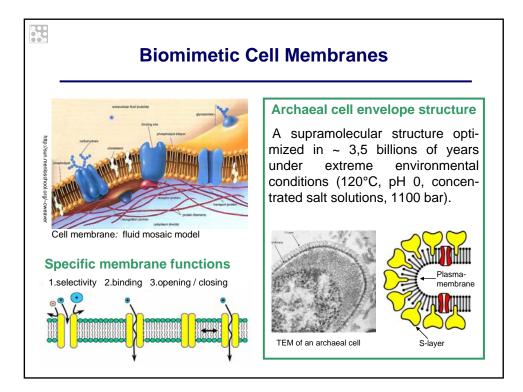


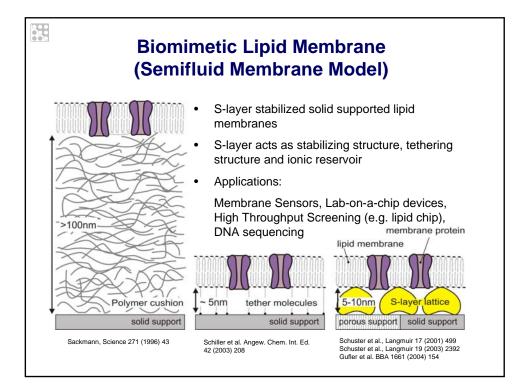


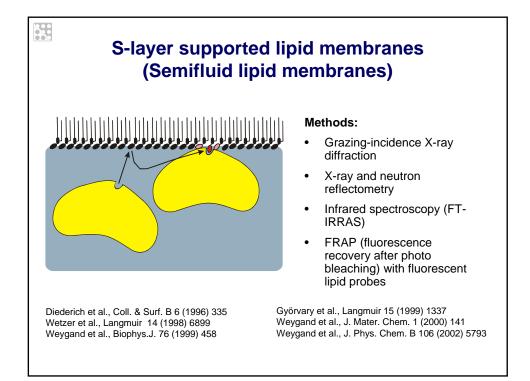
S-layer fusion protein (selected from various constructs)	Length of funct.	Functionality
rSbsB ₁₋₈₈₉ / core streptavidin rSbpA ₃₁₋₁₀₆₈ / core streptavidin	118 aa	Biotin binding
rSbpA ₃₁₋₁₀₆₈ / Bet v1	116 aa	Major birch pollen allergen
rSbpA ₃₁₋₁₀₆₈ / Strep-tag	9 aa	Affinity tag for streptavidin
rSbpA ₃₁₋₁₀₆₈ / ZZ	116 aa	IgG-Binding domain
rSbpA ₃₁₋₁₀₆₈ / GFP	238 aa	Green fluorescent protein
rSbpA ₃₁₋₁₀₆₈ / cAb	117 aa	Heavy chain camel antibody
rSbpA ₃₁₋₁₀₆₈ / AG4 and AGP35	12 aa	Silver binding peptide
rSbpA ₃₁₋₁₀₆₈ / CO2P2	12 aa	Cobalt binding peptide

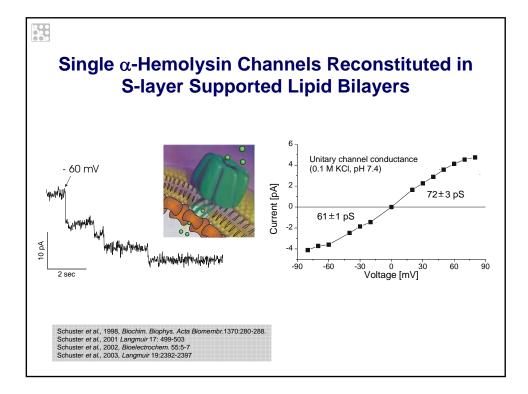














- Exploiting functional lipid membranes at meso- and macroscopic scale (e.g. as required for biosensors or high throughput screening)
- Linking silicon technology and solid state physics with biological systems (e.g. coupling cells to surfaces)

