

Figure 1

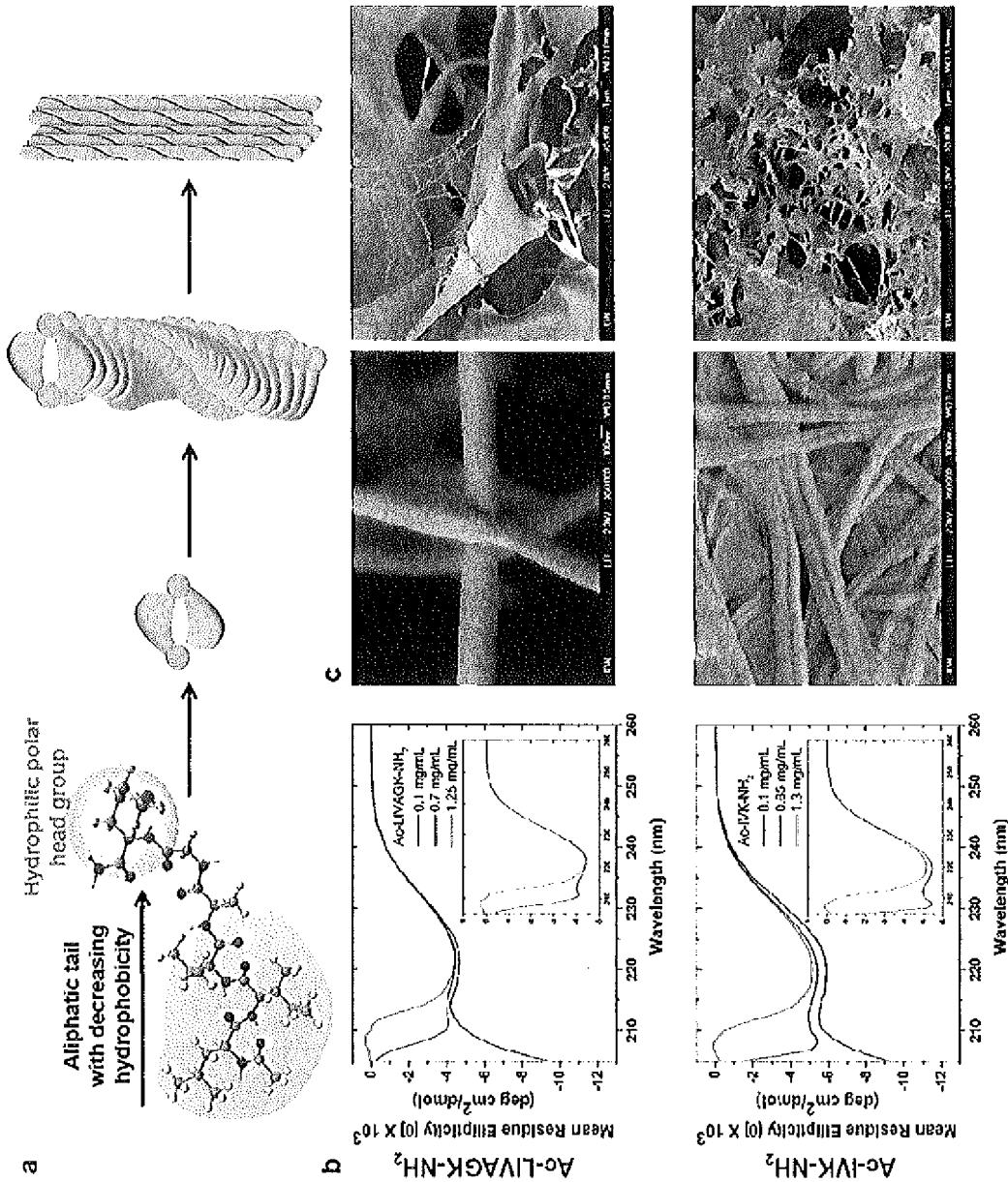


Figure 2

Subclass with acidic amino acids as polar head group

- Stimuli-responsive gelation at low pH
- Amidation or esterification removes sensitivity to pH, but hydrogels can still be obtained

Subclass with amidated basic amino acids as polar head group

- Stimuli-responsive gelation in the presence of salts at physiological concentrations (0.9% saline and PBS)

Minimum gelation concentration

Peptide	Water	PBS
Ac-IK3-NH ₂	>30	10
Ac-IK6-NH ₂	10	3
Ac-LK6-NH ₂	15	6

Substitutions with synthetic amino acids

- Sequence of aliphatic amino acid residues influences gelation:

Minimum gelation concentration of hexamers in PBS

Head group	I-Series	L-Series
L-Lysine	3	6
L-Ornithine	5	6
2,4-Diaminobutyric acid	5	6

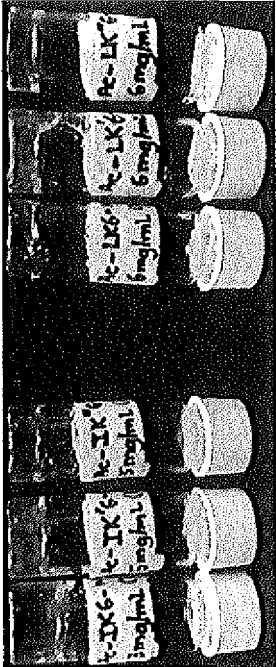


Figure 3

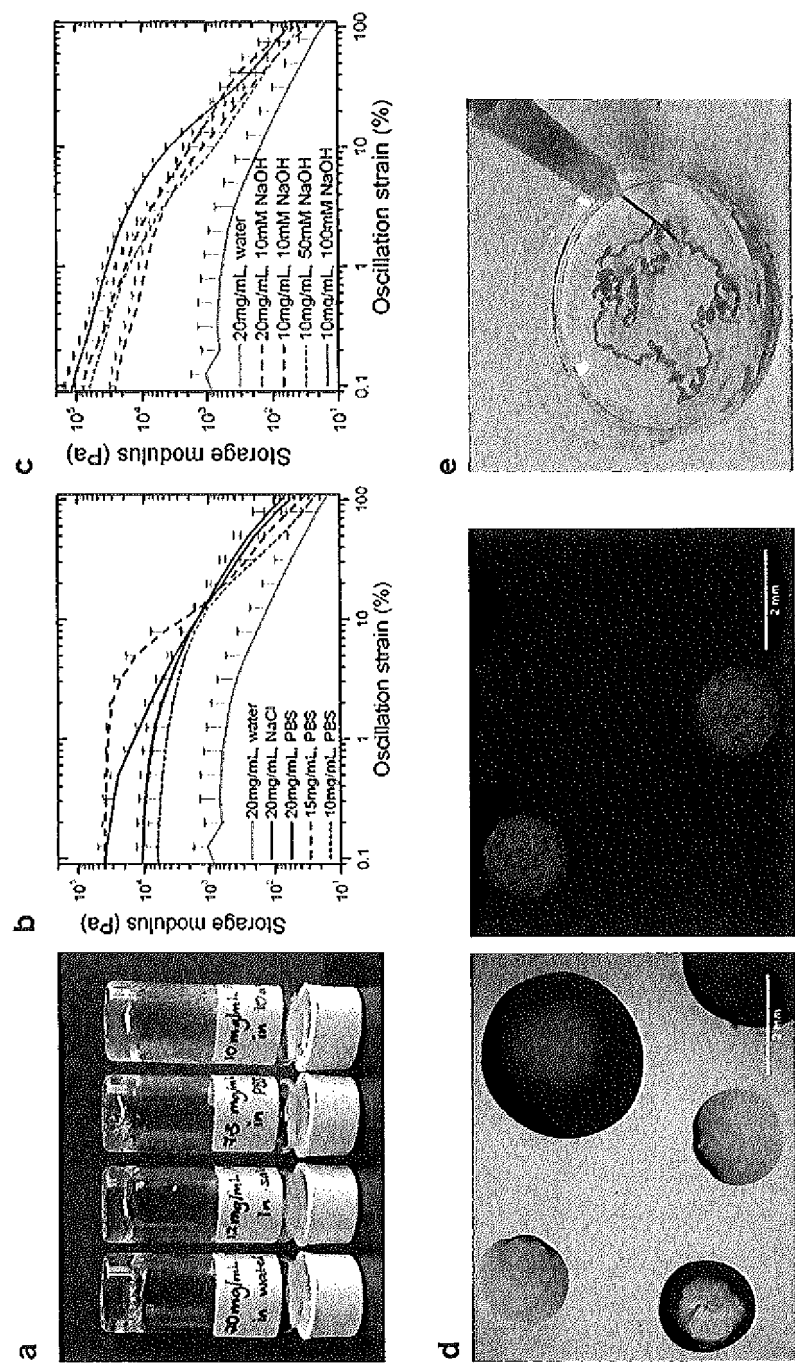


Figure 4

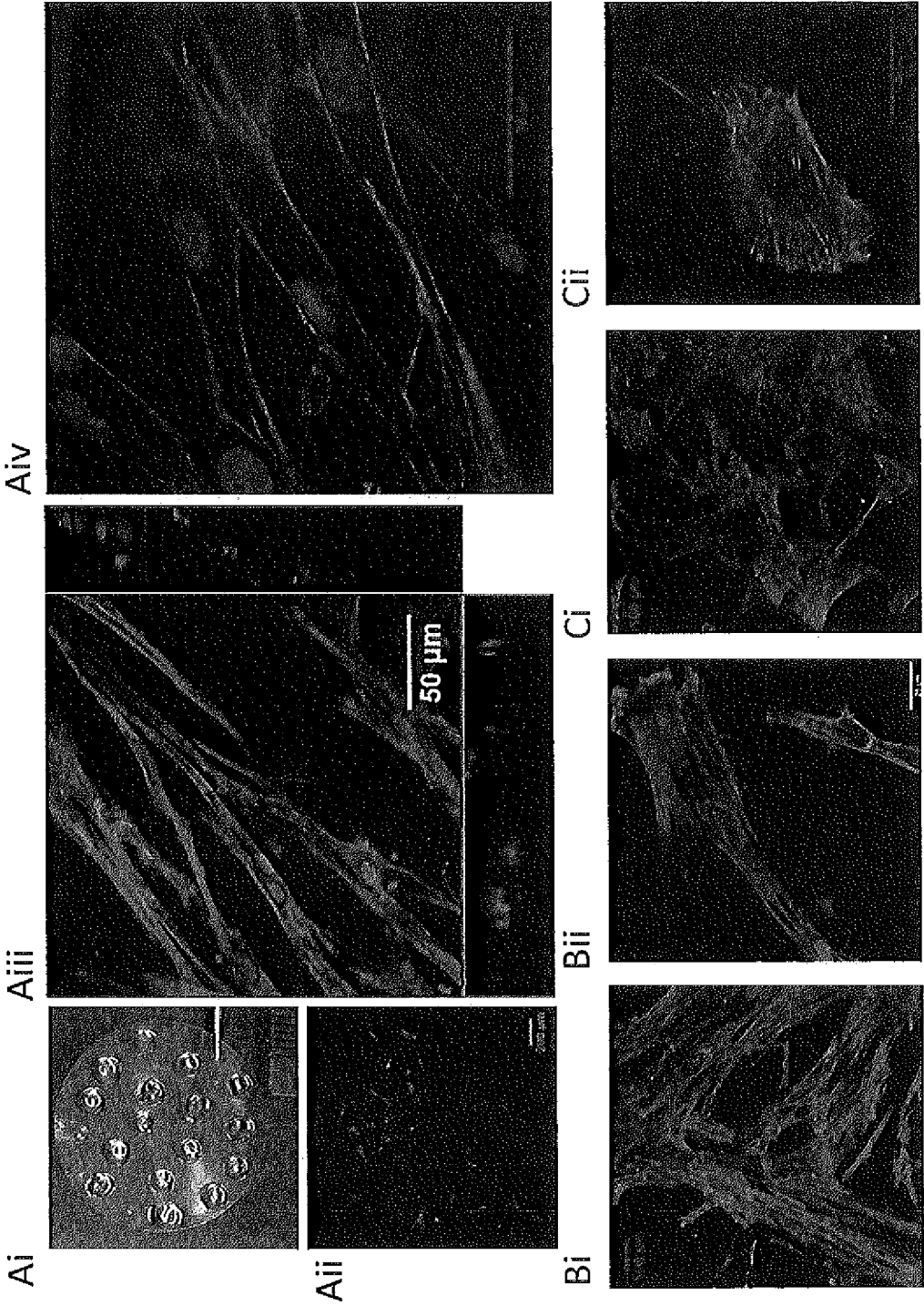


Figure 5

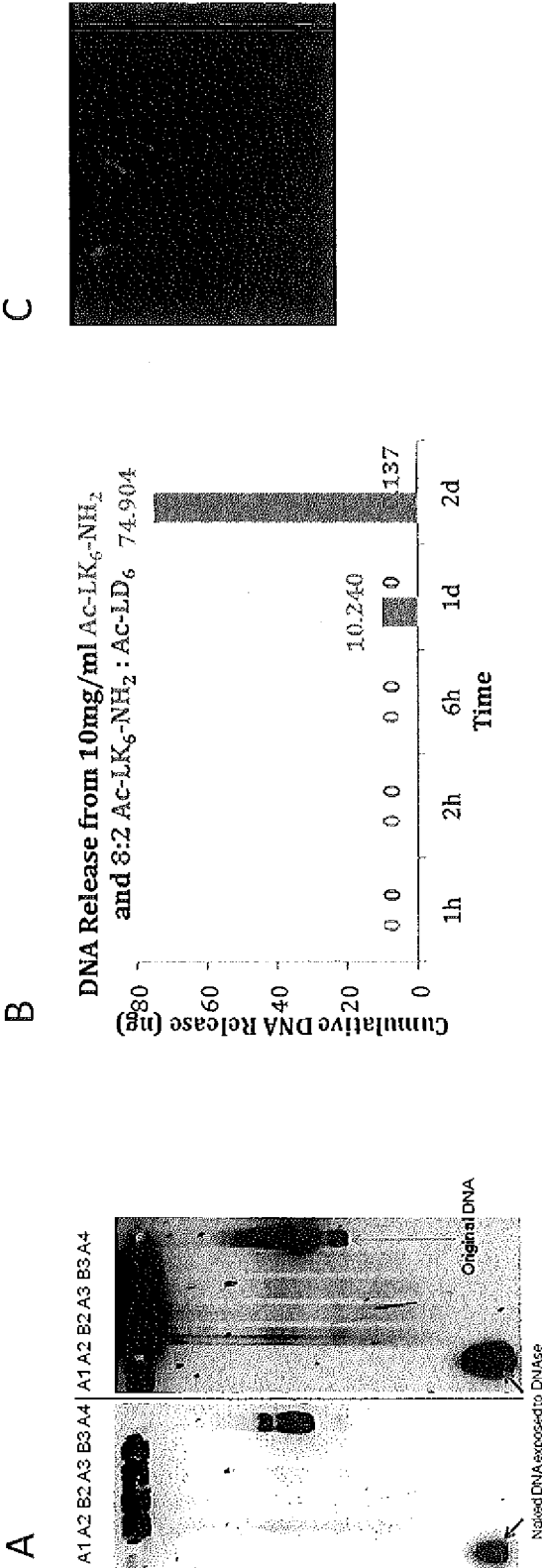


Figure 6

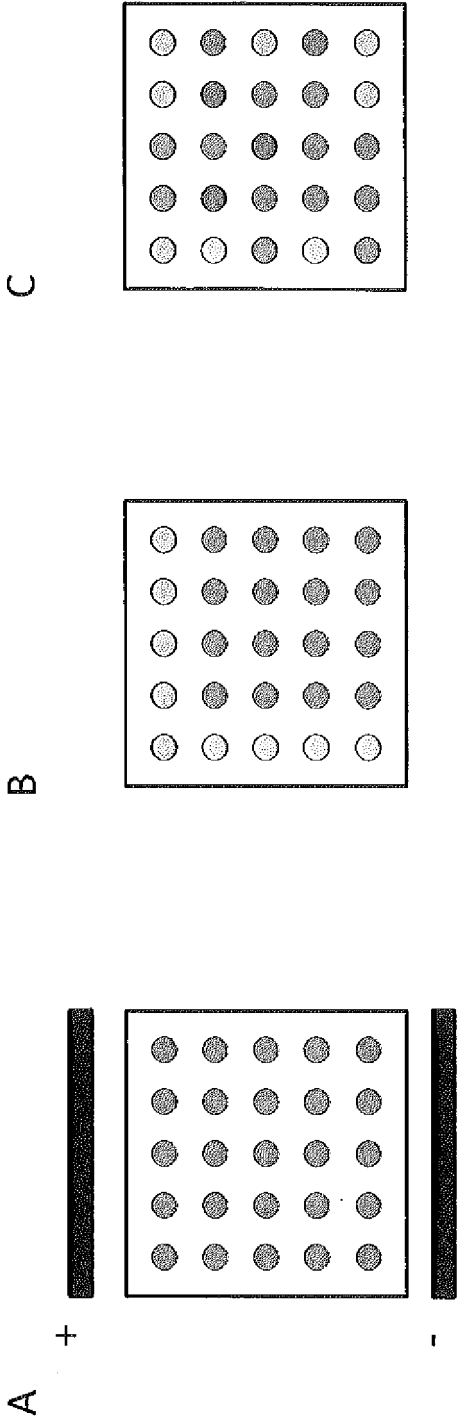


Figure 7

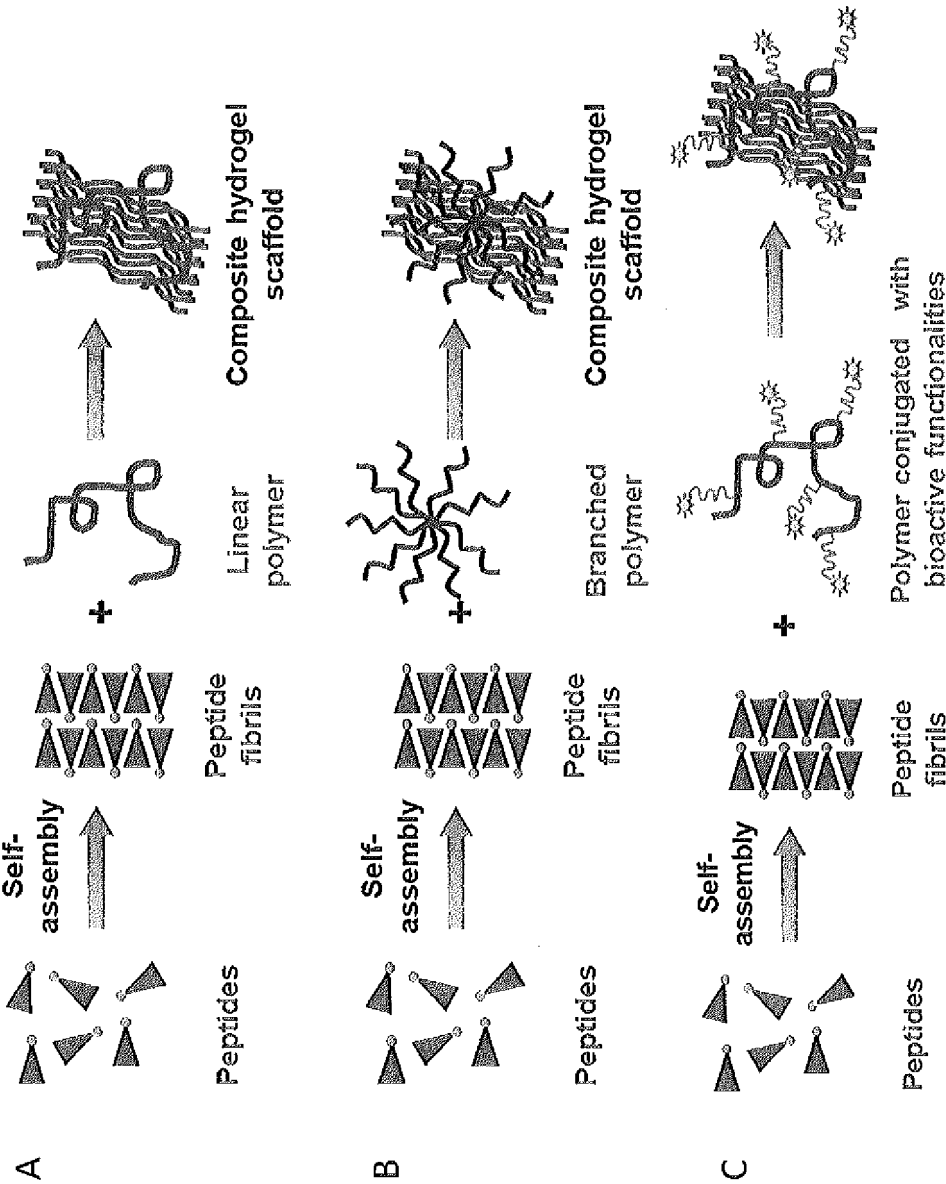


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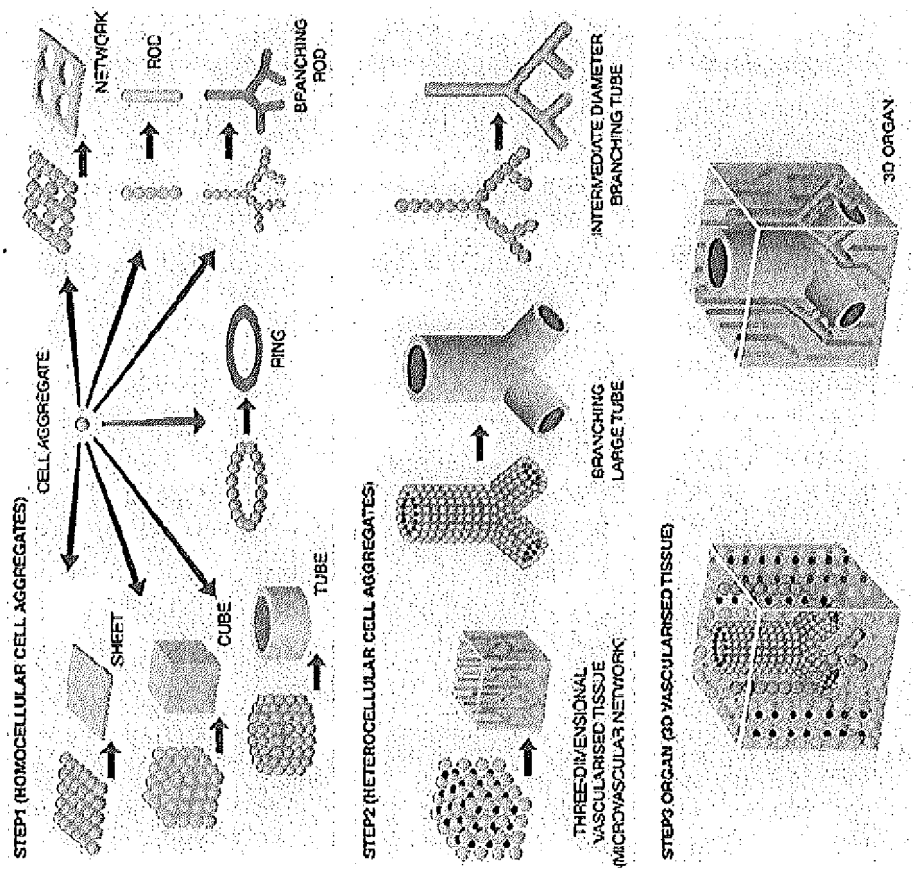


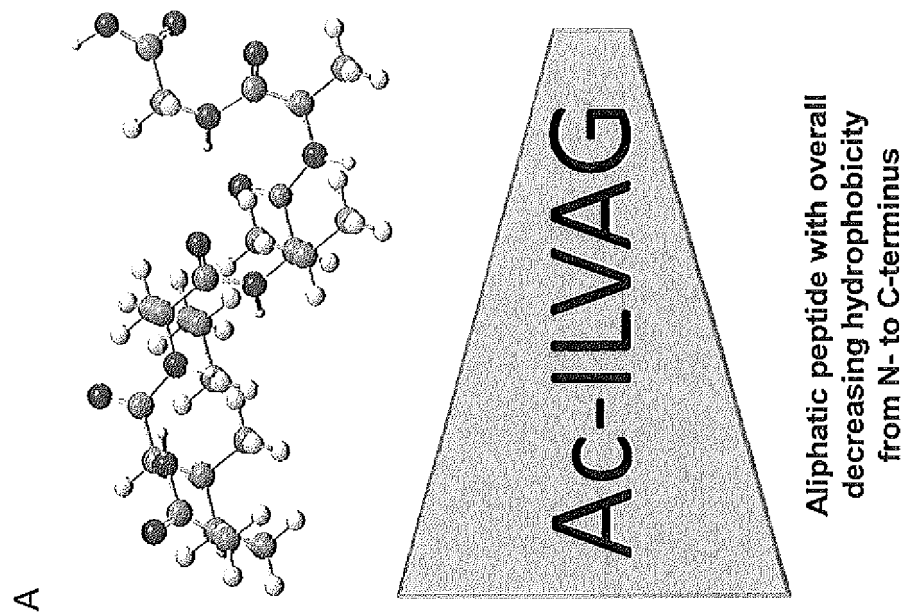
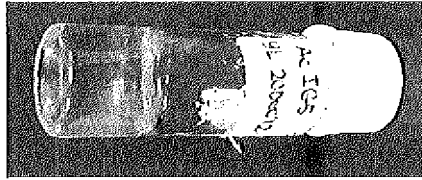
Figure 9**B**

Figure 10

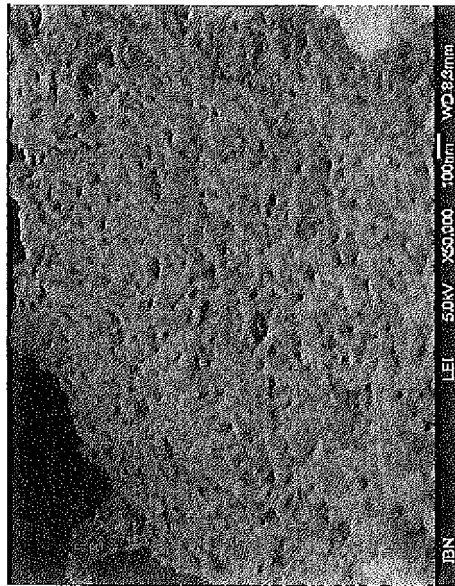
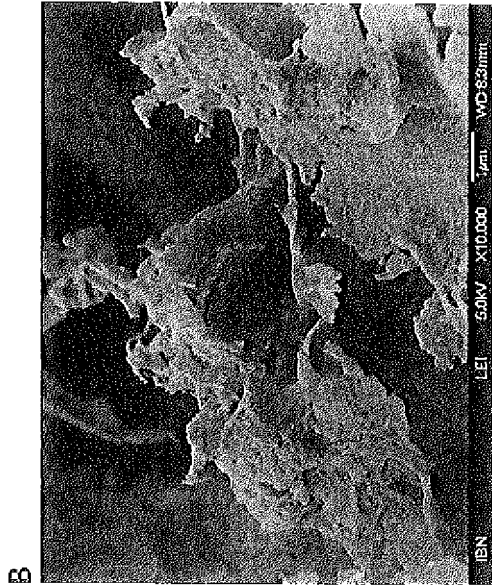
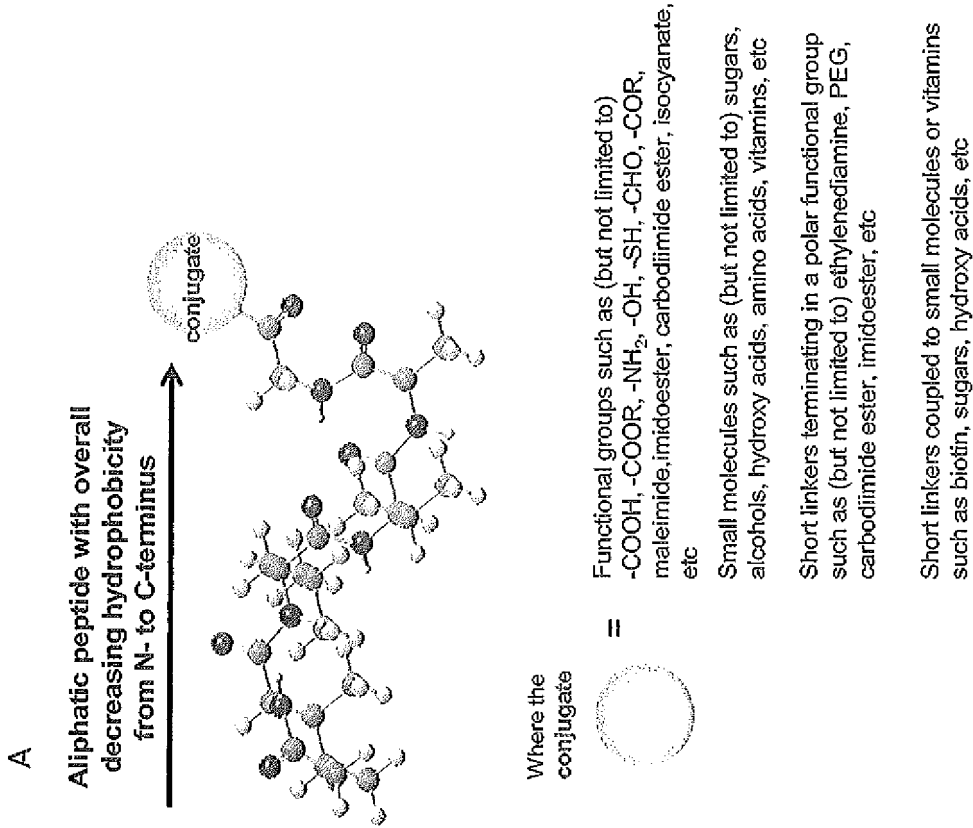


Figure 11 A

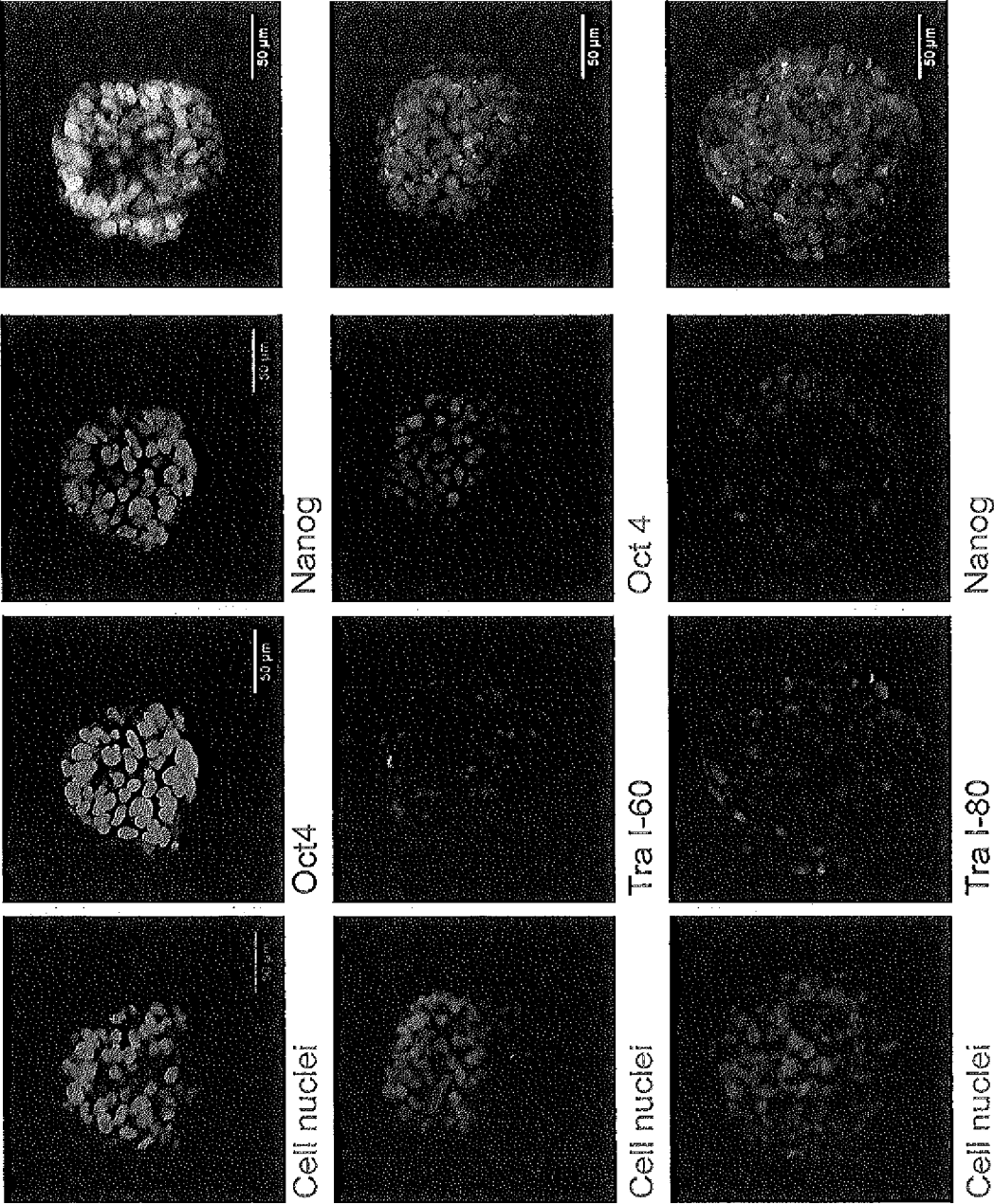


Figure 11 B

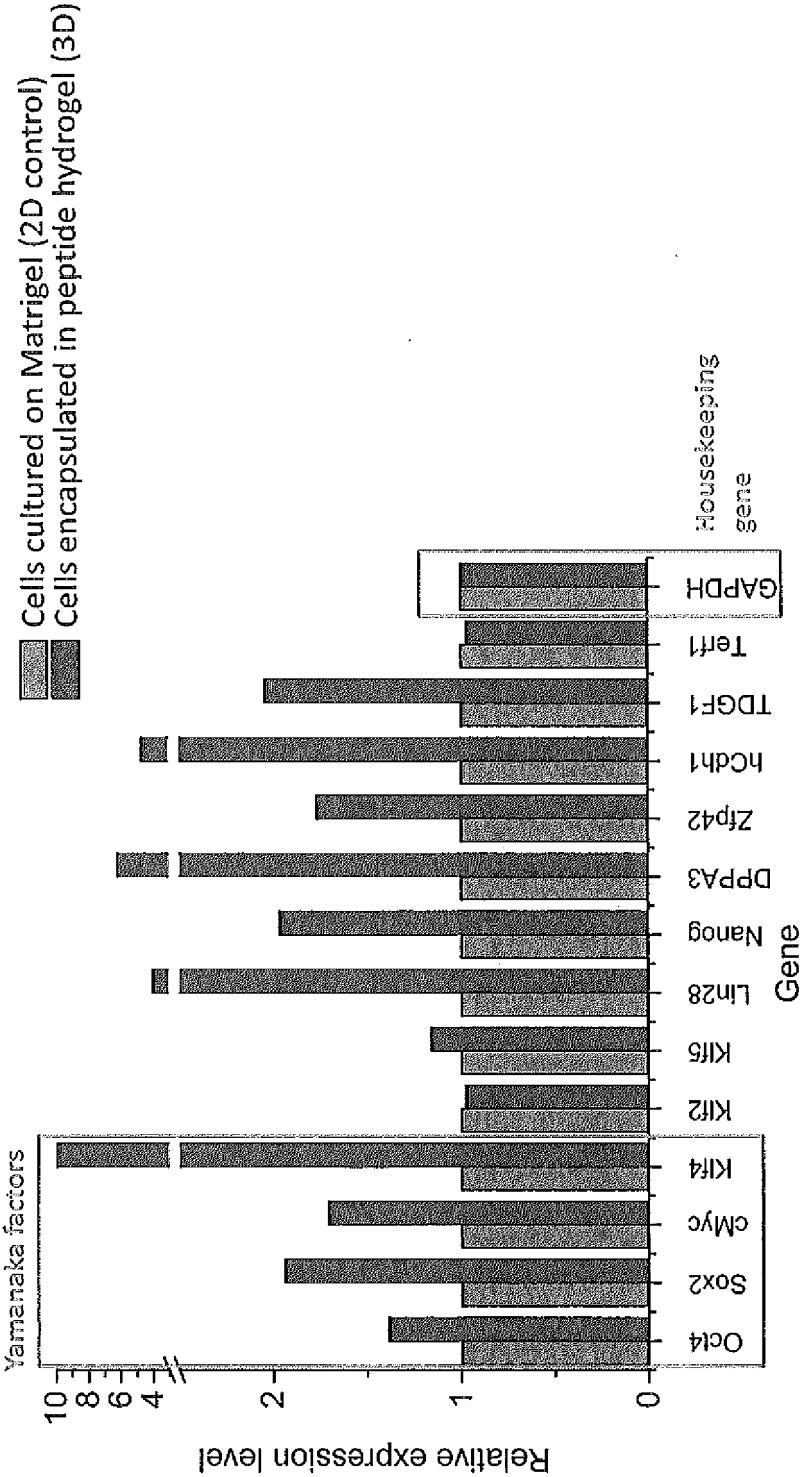
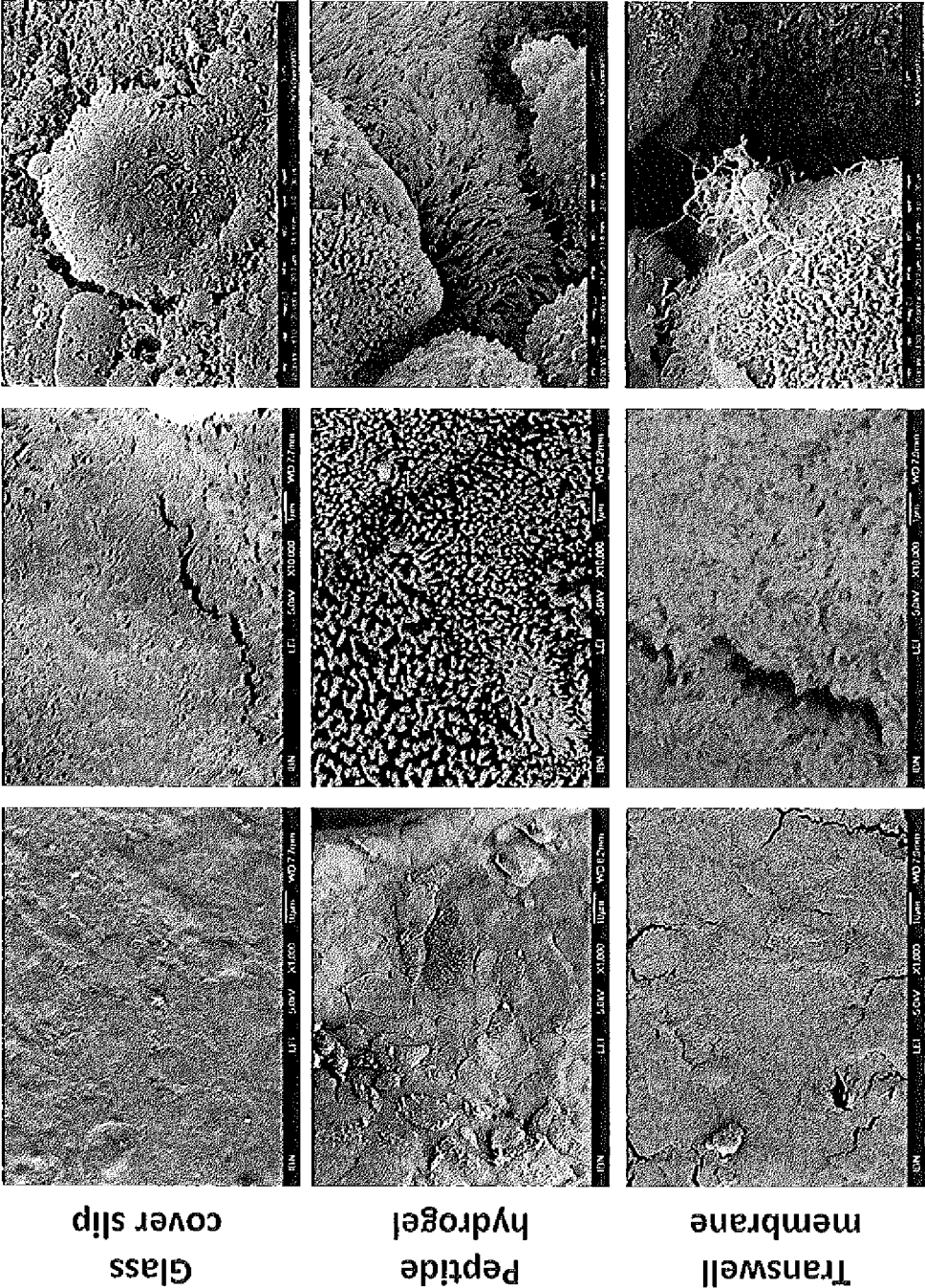


Figure 12 A



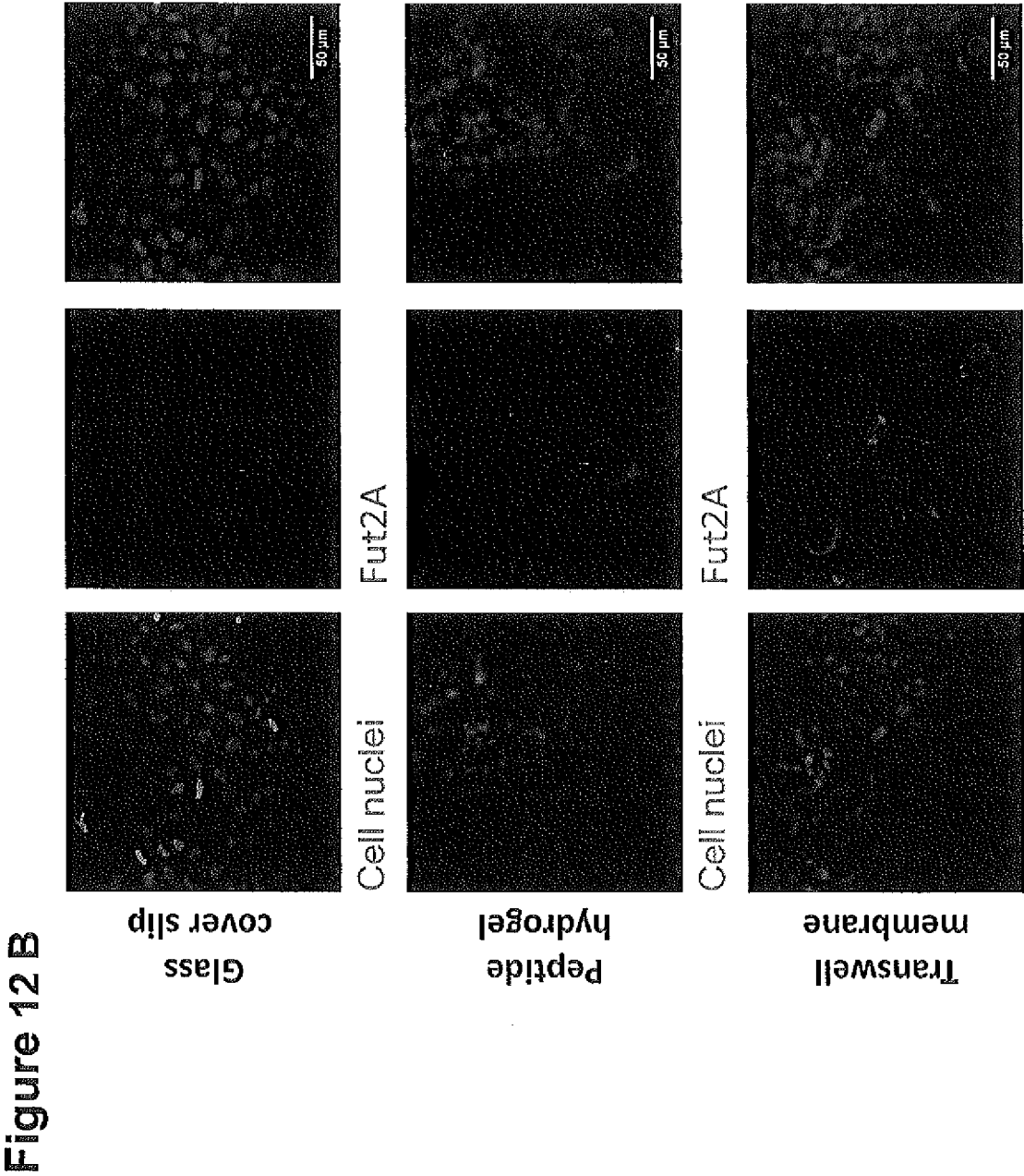


Figure 12 C

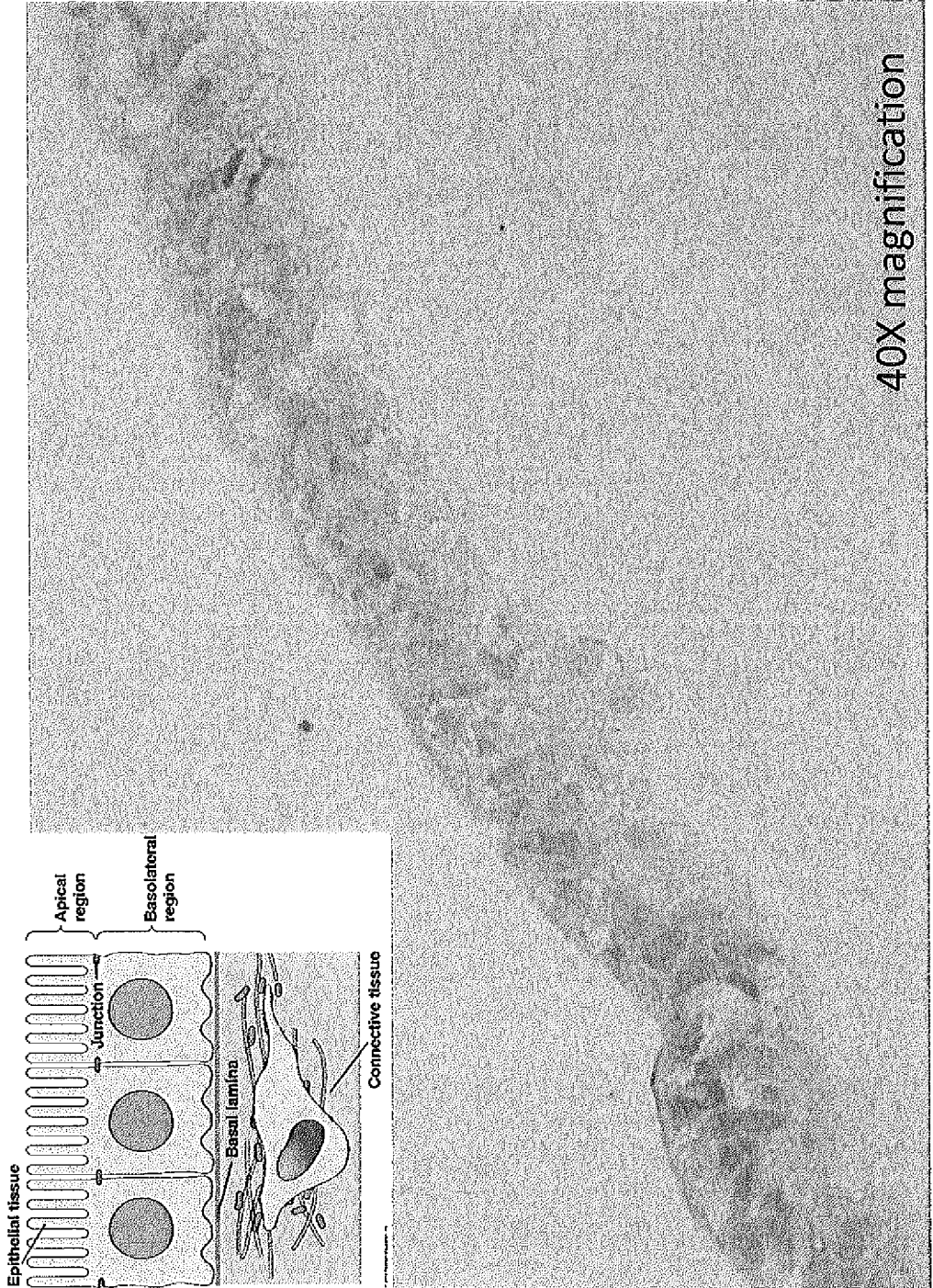


Figure 13

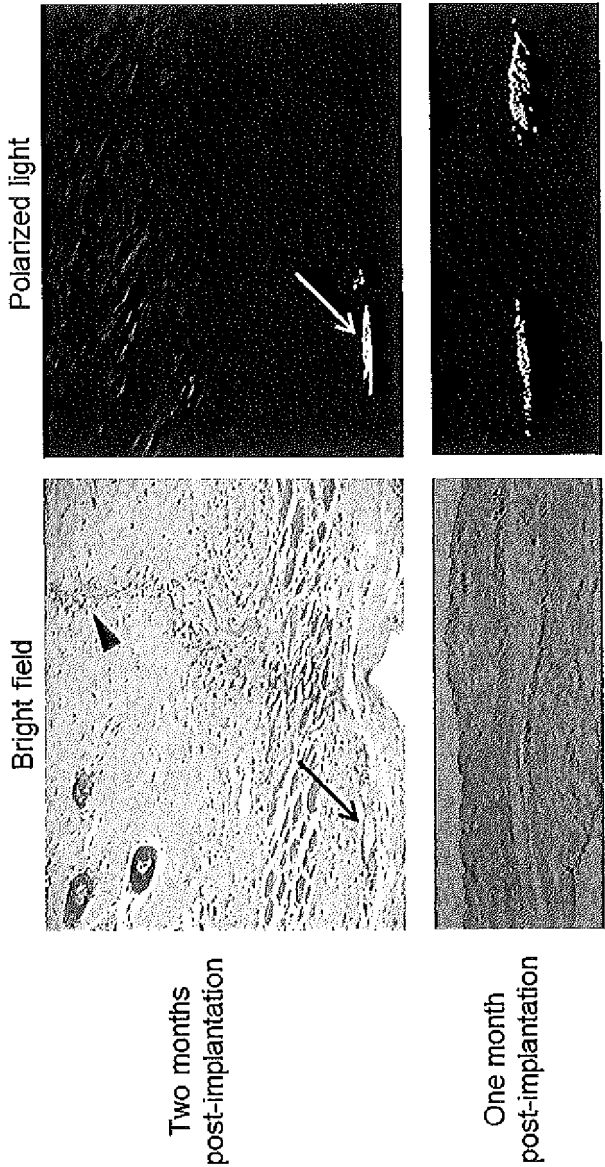


Figure 14 A-C

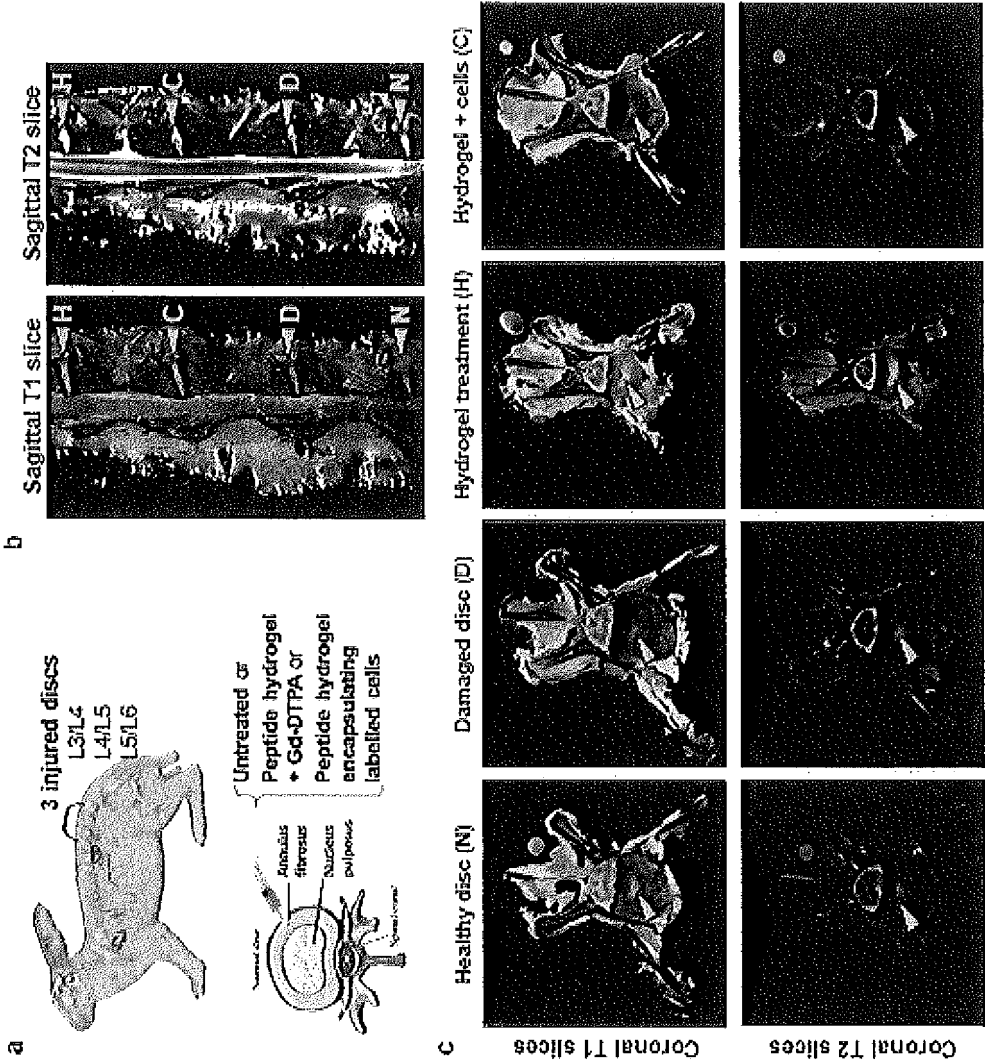


Figure 14 D

