STATEMENTS

1. Guided bone regeneration is a common and effective surgical technique in bone augmentation procedures for a successful placement of dental implants, in which barrier membranes are often used. However, the ideal barrier membrane has not been developed yet (This thesis).

2. Based on experiments in experimental rats, barrier membranes made of poly(trimethylene carbonate) appear to be suitable for guided bone regeneration (This thesis).

3. Barrier membranes are not required for covering of block autologous bone grafts to prevent bone graft resorption (This thesis).

4. Degradation of poly(trimethylene carbonate) does not seem to interfere with new bone formation in critical sized cranial bone defects (This thesis).

5. The amount of calcium phosphate particles in a polymer-calcium phosphate composite biomaterial needs to be optimized to both improve mechanical properties of the composite biomaterial and enhance bone regeneration (This thesis).

6. Lab journals should be comprehensible and complete about what has been done, especially when several consecutive investigators are involved in a research project.

7. The ultimate goal of tissue engineering is not only to produce artificial organs to replace damaged ones but also to make the artificial organs affordable to everyone in need, regardless of their socio-economic status. Given that, research on synthetic scaffolds, mimicking extracellular matrix, deserves great attention.

8. The meaning of life is sought during the procedure of living the life.

9. The only thing that is constant is change (Heraclitus).

10. Whatever you run away from will come back to you later in a worsened form.