

**Lecture: Spezielle Algorithmen der Sequenzanalyse
Summer semester 2006**

Exercises

Exercise 8, Discussion: 05/31/2006.

1. **Multiple sequence alignment with affine gap cost.**

What problem will you face if you try to compute the Sum-of-Pairs score under the affine gap cost model?

How does Altschul solve the problem?

2. **Center-Star method.**

What is the run time complexity of the Center-Star method, the 2-approximation of the Sum-of-Pairs multiple sequence alignment problem?