1 FireDock Scoring Parameters

Name	Enzyme/Inhibitor		Antibody/Antigen		Others	
	coarse	full	coarse	full	coarse	full
attrVdWWeight	1	1	1.5	1.5	1.5	1.5
repVdWWeight	0.95	0	0.6	0.1	0.8	0
ACEWeight	1.6	1.6	1.6	1.6	1.6	1.6
attrElWeight	0.07	0.07	0.21	0.21	0.21	0.21
repElWeight	0.12	0.12	0.21	0.21	0.21	0.21
l_attrElWeight	0	0	0.46	0.46	0	0
l_repElWeight	0.3	0.3	0.69	0.69	0.69	0.69
HBWeight	1.32	1.32	1.2	1.2	1.2	1.2
pipiWeight	1	1	1	1	1	1
catpiWeight	0.8	0.8	0.7	0.7	0.7	0.7
aliphWeight	0.5	0.5	2.5	2.5	2.5	2.5
insidenessWeight	1.55	1.55	0	0	0.7	0.7
confProbWeight	0	0	0	0	0	0

Table 1: Program parameters for score calculation for different complex types. Parameters are specified for the full and coarse refinement stages.

The parameters described in the table are weights of the following scoring terms:

- attrVdWWeight softened attractive van der Waals interactions
- $\bullet \ repVdWWeight$ softened repulsive van der Waals interactions
- \bullet attrElWeight attractive short-range Coulomb electrostatics
- repElWeight repulsive short-range Coulomb electrostatics
- $l_attrElWeight$ attractive long-range Coulomb electrostatics
- \bullet *l_repElWeight* repulsive long-range Coulomb electrostatics
- ACEWeight Atomic Contact Energy (ACE) potential
- *HBWeight* hydrogen and disulfide Bonds
- $\bullet \ catpiWeight$ cation- π stacking
- pipiWeight π - π stacking
- \bullet aliphWeight aliphatic interactions
- \bullet insidenessWeight "insideness" measure
- ullet confProbWeight internal energy