SWAT4LS (Semantic Web Applications and Tools for Life Sciences) is a workshop that aims at providing a venue to critically discuss benefits and limits of Semantic Web technologies and tools in the Life Sciences.

The third edition of SWAT4LS was held in Berlin on December 10th, 2010. The workshop was attended by about 70 people, with a worldwide attendance. Keynotes were given by Prof. Jonas Almeida: Development of Integrative Bioinformatics Applications using Cloud Computing resources and Knowledge Organization Systems (KOS), and Prof. Christopher Baker: A renaissance for the point mutation: from legacy data to semantic web service. The workshop was concluded by a lively panel moderated by Ted Slater and which saw Prof. Jonas Almeida, Prof. Chris Baker, Prof. Ulf Leser and Prof. Chris Bizer as panellists.

The workshop was preceded by two days of tutorials whose topics have been: Semantic Web meets Cloud Computing, Interoperable Semantic Web Services, D2RQ, Query Federation with SWObjects. The workshop also hosted the 7th Berlin Semantic Web Meetup, which focused on Semantic Health Care and Life Sciences.

These proceedings include 13 full papers, 4 demo papers and 18 poster papers. The presentations and tutorials have been made available on Nature Precedings (http://precedings.nature.com/collections/SWAT4LS-2010).

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