Once a microbial strain gets isolated from its natural habitat, a wealth of information about its genome, proteome, metabolism, clinical and ecological traits can be collected, on which basis it might eventually turn out to become important reusable material for scientific and industrial purposes. Perhaps a culture of the biological material gets deposited into a biological resource center (BRC) for long-term preservation and global dissemination among other BRCs or research institutions, its raw observational data are stored into private or public repositories to establish large-scale identification applications, it becomes commonly accepted as key reference material to support some artificial (human-conceived) taxonomic framework designed as a cornerstone for the implementation of an industrial process. In the context, as indeed we all would rather like to benefit from integrated information in a broadened biological and clinical context, as research results, instant and effortless visibility of this creative and scientific downstream information has become imperative for the realization of successful innovation chains that take full opportunity of the exploitation of biological resources.

The StrainInfo.net portal (www.straininfo.net) therefore envisions the establishment of a technology platform that can stimulate this movement towards using multi-perspective integrated information in a broadened biological and clinical context, as indeed we all would rather like to benefit from integrated information in a broadened biological and clinical context, as research results, instant and effortless visibility of this creative and scientific downstream information has become imperative for the realization of successful innovation chains that take full opportunity of the exploitation of biological resources.

Both the actual content of this downstream information on the microorganism and its location in private databases or on the World Wide Web are sensitive to modification over time. As science and technology are moving rapidly, thereby increasingly making use of the scientific merits of previous research results, instant and effortless visibility of this creative and scientific downstream information has become imperative for the realization of successful innovation chains that take full opportunity of the exploitation of biological resources.

The StrainInfo.net portal (www.straininfo.net) therefore envisions the establishment of a technology platform that can stimulate this movement towards using multi-perspective integrated information in a broadened biological and clinical context, as indeed we all would rather like to benefit from automated ICT technologies for keeping track of downstream information on biological resources than putting all our efforts into the tedious and error-prone compilation of relevant knowledge from the heterogeneous and autonomous data collections spread across the information jungle.

Example query: "Find all 16S rRNA sequences of Enterococcus type strains".

4-step query resolution (right panel)
1) find all species of the genus Enterococcus (including synonyms)
2) find type strain for each species
3) find all synonym labels assigned to each type strain
4) find all 16S rRNA sequences linked to each of the synonym labels