SSR loci polymorphism of genus *Ribes* L. representatives

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**Summary**

Genus *Ribes* L. includes number of important for agriculture species such as blackcurrant (*R.nigrum* L.), red currant (*R.rubrum* L.), gooseberry (*R.grossularia* L.). This paper represents results of genotyping of 28 genus *Ribes* representatives (19 species from 7 sections and interspecies hybrids) in 6 SSR loci (e1-O21, g2-H21, g1-M07, e1-O01, g1-K04, g2-G12) that initially were developed for blackcurrant. At all 82 alleles were amplified with average of 14 alleles per locus. All tested loci were polymorphic. With some exception all loci amplified on DNA of all samples. Most of alleles (96%) were rare or unique (with frequency less 0,2) testifying high level of genetic diversity of samples analyzed. Obtained data may be used for development of identification system for *Ribes* species. Clustering had shown lack of supported by high bootstrap groups related to sections or subgenera. There were several small groups (2-3 samples) with high level of bootstrap support. Tested SSR loci may be used for studies on other species and interspecies hybrids of *Ribes* genera. However, in this study most of the loci had shown recession of observed heterosigozyty and raise of null allele’s probability in compare with their usage on blackcurrant cultivars. Loci having both alleles amplified are more informative and recommended to study specific species.

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**Key words:** PCR**,** *Ribes* L., taxonomy, currants, gooseberry, SSR loci, genetic polymorphism, DNA-markers

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