1	Supplementary data for
2	Impact of wastewater treatment on the prevalence of integrons and genetic
3	diversity of integron gene cassettes
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17	The authors declare no conflict of interest.
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Figure S1 Abundance (copies/ml) of the dominant genes encoded by class 1 integron gene cassettes. The gene cassettes *aadA* alleles (*aadA1*, *aadA2* and *aadA5*) confer resistance to aminoglycosides. INF, influent; AS, activated sludge; EFF, effluent. Mean \pm SD.

Figure S2 Proportion of class 1 integron-associated gene cassettes in three
wastewater treatment plants, basing on high throughput sequencing data. DNA rep.
transp. and repair stands for DNA replication transport and repair.

Figure S3 Rarefaction curves of integron gene cassettes in wastewater treatment plants, basing on the data of clone library. (a) Observed diversity of class 1 integron gene cassettes in three wastewater treatment plants. (b) Observed diversity of class 3 integron gene cassettes in three wastewater treatment plants.

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33 **Tables:**

Table S1 Information of wastewater treatment plant samples.

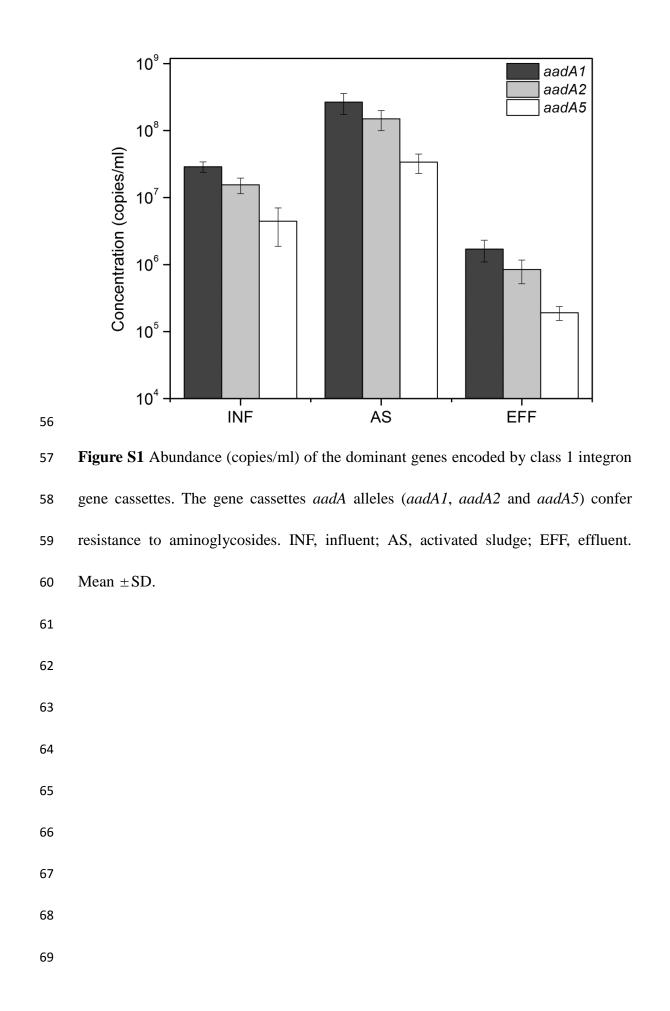
Table S2 An overview of class 1 integron gene cassette clone.

Table S3 Number of clones carrying gene cassettes and gene cassette arrays.

Table S4 Abunance of class 1 integron-associated gene cassettes based on high
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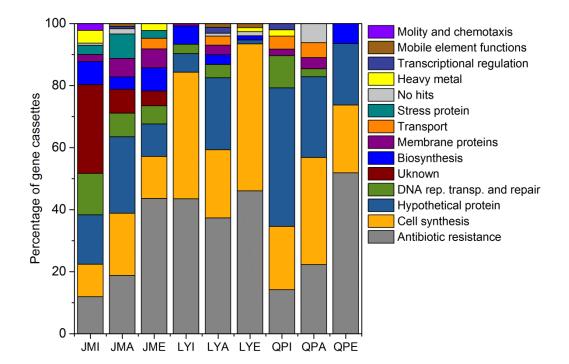
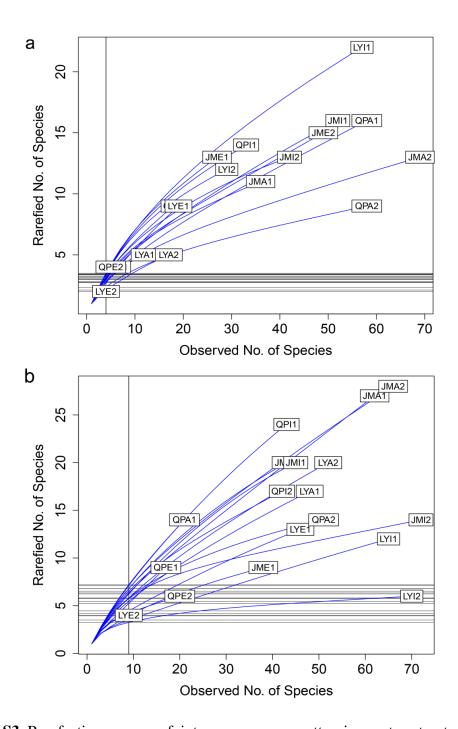


Figure S2 Proportion of class 1 integron-associated gene cassettes in three wastewater treatment plants, basing on high throughput sequencing data. DNA rep. transp. and repair stands for DNA replication transport and repair. Each sample was labelled with the abbreviation of WWTPs and sample types. For example, QPE refers to the effluent sample (E) from of Qianpu (QP) wastewater treatment plant.



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Figure S3 Rarefaction curves of integron gene cassettes in wastewater treatment plants, basing on the data of clone library. (a) Observed diversity of class 1 integron gene cassettes in three wastewater treatment plants. (b) Observed diversity of class 3 integron gene cassettes in three wastewater treatment plants. Each sample was labelled with the abbreviation of WWTPs and sample types. For example, QPE refers to the effluent sample (E) from of Qianpu (QP) wastewater treatment plant.