### Supplementary Information for

## Anthropogenic disturbances are key to maintaining the biodiversity of

## grasslands

## Authors

# Z.Y. Yuan<sup>1, 2</sup>, F. Jiao<sup>1,2\*</sup>, Y.H. Li<sup>3</sup>, Robert L. Kallenbach<sup>4</sup>

Corresponding to ZYY: zyyuan@ms.iswc.ac.cn

## The PDF includes:

Additional captions for Figures 1 to 4

Supplementary Figures 1 to 4

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#### Figure S1

Relationships between Shannon-Wiener index and disturbance. The relationships are best described by non-linear regression (dark grey lines). Nonlinear patterns are derived by Loess smoothing (grey shade) with 95% confidence intervals.

#### Figure S2

Relationships between Shannon-Wiener index and disturbance. The relationships are best described by non-linear regression (dark grey lines). Nonlinear patterns are derived by Loess smoothing (grey shade) with 95% confidence intervals.

#### Figure S3

Relationships between annual plant biomass and disturbance. The relationships are best described by non-linear regression (dark grey lines). Nonlinear patterns are derived by Loess smoothing (grey shade) with 95% confidence intervals.

#### Figure S4

Relationships between unpalatable plant biomass and disturbance. The relationships are best described by non-linear regression (dark grey lines). Nonlinear patterns are derived by Loess smoothing (grey shade) with 95% confidence intervals.

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Relationships between annual plant biomass and disturbance. The relationships are best described by non-linear regression (dark grey lines). Nonlinear patterns are derived by Loess smoothing (grey shade) with 95% confidence intervals.



#### Figure S4

Relationships between unpalatable plant biomass and disturbance. The relationships are best described by non-linear regression (dark grey lines). Nonlinear patterns are derived by Loess smoothing (grey shade) with 95% confidence intervals.

