Urfusová R., Mahelka V., Krahulec F., Veškrna O. \& Urfus T. (2022) The mentor effect increases the rate of selfing in couchgrasses. - Preslia 94: 377-397.

Electronic Appendix 1. - Parental plants in pollination experiments, their absolute genome sizes (GS; in pg) and ploidy levels. Ploidy of Elymus plants were verified by chromosome counts, ploidy levels of crops were verified by their producers - the breeding stations Selgen and Danko. Elymus taxa were morphologically determined and their identity was confirmed by morphometrics (following Urfusová et al. 2021).

| Parental plant | Species | GS (pg) | ploidy level |
| :--- | :--- | :--- | :--- |
| MO24c | E. repens | 25.02 | 6 x |
| CS22a | E. repens | 24.50 | 6 x |
| T14P4 | E. hispidus | 27.77 | 6 x |
| CS1f | E. hispidus | 27.85 | 6 x |
| MO5b | hybrid | 26.74 | 6 x |
| T13P12 | hybrid | 28.77 | 6 x |
| T10P7 | E. repens | 30.81 | 7 x |
| T14P8 | E. repens | 30.22 | 7 x |
| T9P1 | hybrid | 30.50 | 7 x |
| T1P1 | hybrid | 35.44 | 8 x |
| T4P4 | E. hispidus | 33.18 | 8 x |
| T4P5 | E. hispidus | 32.71 | 8 x |
| Secale Gadello | Secale cereale | 17.55 | 2 x |
| JJ 6R 610 A | Hordeum vulgare | 10.84 | 2 x |
| Lancelot | Hordeum vulgare | 10.84 | 2 x |
| JJ cross 43 | Hordeum vulgare | 11.21 | 2 x |
| Triticum monococcum | Triticum monococcum | 12.61 | 2 x |
| K1 Bohemia | Triticum aestivum | 37.74 | 6 x |
| SG-U2078-18 | Triticum aestivum | 36.48 | 6 x |
| K2 Illusion | Triticum aestivum | 35.71 | 6 x |
| (SG-S1500-14) Lorien | Triticum aestivum | 36.49 | 6 x |
| SG-U5003-16 | Triticum aestivum | 35.76 | 6 x |
| Viriato | Triticum aestivum | 38.12 | 6 x |
| Triticale MAMUT | Triticale | 43.40 | 6 x |
| Triticale PORTO | Triticale | 42.08 | 6 x |



Electronic Appendix 2. - Ordination diagram of principal component analysis (PCA) of individuals from the study of Urfusová et al. (2021), with added Elymus plants used in this study - encircled in black.


Electronic Appendix 3. - Chromosomes of parental plants. A, B - hexaploid E. repens; C, D - hexaploid hybrid; E, F - hexaploid E. hispidus; G, H - heptaploid E. repens; I - heptaploid hybrid; J - octoploid hybrid; K, L - octoploid E. hispidus. Black-and-white images magnification $600 \times$, colour images $-400 \times$.

Electronic Appendix 4. - Elymus species used in the open-pollination control experiment. The ploidy levels of part of these plants were confirmed by chromosome counts.

| sample | species | GS (pg) | ploidy |
| :--- | :--- | :---: | :--- |
| Rum17-3c | E. repens | $24.77 \quad 6 \mathrm{x}$ |  |
| MO24c | E. repens | 25.026 x |  |
| Mol17-3b | E. repens | 25.096 x |  |
| CS1f | E. hispidus | 27.85 | 6 x |
| SR17-1a | E. hispidus | 28.116 x |  |
| Ukr17-3c | E. hispidus | 30.016 x |  |
| Ukr17-7b | E. hispidus | 29.556 x |  |
| Ukr17-3ch | E. hispidus | 29.12 | 6 x |
| MO5b | hybrid | 26.74 | 6 x |



Electronic Appendix 5. - Schematically expressed pollination experiment based on maternal plants (marked by ellipse) and realized crossings linked to pollen donor taxa/ploidal cytotypes. The thin line corresponds to induced selfing and the thick line to core selfing. Successful pollinations are marked by numbers of developed seeds in a circle.

Electronic Appendix 6. - Results of particular generalized linear mixed-effects models (GLMM) testing the effect of ploidy level and species of maternal plant and paternal plant and type of selfing on seed set with Tukey Contrasts. Seed set refers to number of seeds/number of florets ratio of each single pollinated spike. Maternal plant individual was used as random effect.

## GLMM

## Seed set: entire

maternal plant ploidy level (regardless of species): $\quad \chi^{2}(2)=14.884$, Df resid $=257, p=0.0005862$
Multiple Comparisons of Means: Tukey Contrasts:

|  | Estimate | Std. Error | z value | $\operatorname{Pr}(>\|\mathrm{z}\|)$ |
| :--- | :--- | :--- | :--- | :--- |
| $7 \mathrm{x}-6 \mathrm{x}==0$ | 0.8363 | 0.9745 | 0.858 | 0.66326 |
| $8 \mathrm{x}-6 \mathrm{x}=0$ | -2.5969 | 0.8476 | -3.064 | 0.00620 |
| $8 \mathrm{x}-7 \mathrm{x}=0$ | -3.4331 | 1.1140 | -3.082 | 0.00601 |
| maternal plant species (regardless of ploidy level): | $\chi^{2}(2)=17.474$ Df resid $=257, \mathrm{p}=$ |  |  |  |

Multiple Comparisons of Means: Tukey Contrasts:

|  | Estimate | Std. Error | z value | $\operatorname{Pr}(>\|\mathrm{z}\|)$ |
| :--- | :--- | :--- | :--- | :--- |
| E. repens - E. hispidus $=0$ | 3.875 | 1.050 | 3.692 | $<0.001$ |
| hybrid - E. hispidus $=0$ | 2.027 | 0.681 | 2.976 | 0.00789 |
| hybrid - E. repens $=0$ | -1.848 | 1.032 | -1.790 | 0.16802 |
| maternal plant species combined with ploidy level: | $\chi 2(6)=30.193$, Df resid $=253, \mathrm{p}=3.613 \mathrm{e}^{-05}$ |  |  |  |
| Multiple Comparisons of Means: Tukey Contrasts: |  |  |  |  |
|  | Estimate | Std. Error | z value | $\operatorname{Pr}(>\|\mathrm{z}\|)$ |
| E. hispidus $8 \mathrm{x}-$ E. hispidus $6 \mathrm{x}==0$ | -1.6108 | 0.8830 | -1.824 | 0.48151 |
| E. repens $6 \mathrm{x}-$ E. hispidus $6 \mathrm{x}==0$ | 2.0220 | 1.2307 | 1.643 | 0.60732 |
| E. repens $7 \mathrm{x}-$ E. hispidus $6 \mathrm{x}==0$ | 21.4800 | 256.0000 | 0.084 | 1.00000 |
| hybrid $6 \mathrm{x}-$ E. hispidus $6 \mathrm{x}=0$ | 2.6343 | 1.0456 | 2.519 | 0.12578 |
| hybrid $7 \mathrm{x}-$ E. hispidus $6 \mathrm{x}=0$ | 0.6897 | 1.0368 | 0.665 | 0.99271 |
| hybrid $8 \mathrm{x}-$ E. hispidus $6 \mathrm{x}=0$ | -0.0712 | 0.9711 | -0.073 | 1.00000 |


| E. repens $6 \mathrm{x}-$ E. hispidus $8 \mathrm{x}==0$ | 3.6328 | 1.2579 | 2.888 | 0.04713 |
| :--- | :--- | :--- | :--- | :--- |
| E. repens $7 \mathrm{x}-$ E. hispidus $8 \mathrm{x}==0$ | 23.0908 | 256.0014 | 0.090 | 1.00000 |
| hybrid $6 \mathrm{x}-$ E. hispidus $8 \mathrm{x}==0$ | 4.2451 | 1.1118 | 3.818 | 0.00199 |
| hybrid $7 \mathrm{x}-$ E. hispidus $8 \mathrm{x}==0$ | 2.3005 | 1.0811 | 2.128 | 0.29182 |
| hybrid $8 \mathrm{x}-$ E. hispidus $8 \mathrm{x}=0$ | 1.5396 | 0.9884 | 1.558 | 0.66597 |
| E. repens $7 \mathrm{x}-$ E. repens $6 \mathrm{x}==0$ | 19.4580 | 256.0028 | 0.076 | 1.00000 |
| hybrid $6 \mathrm{x}-$ E. repens $6 \mathrm{x}==$ | 0.6123 | 1.3761 | 0.445 | 0.99922 |
| hybrid $7 \mathrm{x}-$ E. repens $6 \mathrm{x}==$ | -1.3323 | 1.3697 | -0.973 | 0.94967 |
| hybrid $8 \mathrm{x}-$ E. repens $6 \mathrm{x}=0$ | -2.0932 | 1.3211 | -1.584 | 0.64770 |
| hybrid $6 \mathrm{x}-$ E. repens $7 \mathrm{x}==0$ | -18.8457 | 256.0020 | -0.074 | 1.00000 |
| hybrid $7 \mathrm{x}-$ E. repens $7 \mathrm{x}==0$ | -20.7903 | 256.0019 | -0.081 | 1.00000 |
| hybrid $8 \mathrm{x}-$. repens $7 \mathrm{x}==0$ | -21.5512 | 256.0018 | -0.084 | 1.00000 |
| hybrid $7 \mathrm{x}-$ hybrid $6 \mathrm{x}=0$ | -1.9446 | 1.1874 | -1.638 | 0.61135 |
| hybrid $8 \mathrm{x}-$ hybrid $6 \mathrm{x}==0$ | -2.7055 | 1.1746 | -2.303 | 0.20547 |
| hybrid $8 \mathrm{x}-$ hybrid $7 \mathrm{x}==0$ | -0.7609 | 1.1511 | -0.661 | 0.99295 |
| autonomous vs. induced selfing: | $\chi 2(1)=8.3748$, Df resid $=258, \mathrm{p}=0.003805$ |  |  |  |
| Multiple Comparisons of Means: Tukey Contrasts: |  |  |  |  |
|  | Estimate | Std. Error | z value | $\operatorname{Pr}(>\mid \mathrm{zl})$ |
| autonomous selfing - induced selfing $==0$ | 0.7188 | 0.2576 | 2.79 | 0.00527 |

## Seed set: hexaploid maternal plant

| maternal plant species: | $\chi 2(2)=9.7565$, Df resid $=126, \mathrm{p}=0.00761$ |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| Multiple Comparisons of Means: Tukey Contrasts: |  |  |  |  |
|  | Estimate | Std. Error | z value | $\operatorname{Pr}(>\|\mathrm{z}\|)$ |
| E. repens - E. hispidus $=0$ | 2.0225 | 1.2586 | 1.607 | 0.2395 |
| hybrid - E. hispidus $=0$ | 2.6777 | 1.1345 | 2.360 | 0.0469 |
| hybrid - E. repens $=0$ | 0.6551 | 1.4544 | 0.450 | 0.8930 |

autonomous vs. induced selfing: $\quad \chi^{2}(1)=2.9208$, Df resid $=128, \mathrm{p}=0.08745$

Seed set: maternal plant E. hispidus

| maternal plant ploidy level: | $\chi 2(1)=4.407$, Df resid $=79, \mathrm{p}=0.03579$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Multiple Comparisons of Means: Tukey Contrasts: |  |  |  |  |
|  | Estimate | Std. Error | z value | $\operatorname{Pr}(>\|z\|)$ |
| $8 \mathrm{x}-6 \mathrm{x}==0$ | -1.3904 | 0.6583 | -2.112 | 0.0347 |
|  | $\chi 2$ (1) $=0.0006874$, Df resid $=79, \mathrm{p}=$ |  |  |  |
| autonomous vs. induced selfing: | 0.00176 |  |  |  |
| Multiple Comparisons of Means: Tukey Contrasts: |  |  |  |  |
|  | Estimate | Std. Error | z value | $\operatorname{Pr}(>\|z\|)$ |
| selfing - induced $==0$ | 1.0201 | 0.3261 | 3.128 | 0.00176 |

Seed set: maternal plant E. repens

| maternal plant ploidy level: | $\chi^{2}(1)=4.1199$, Df resid $=64, p=0.04238$ |
| :--- | :--- |
| autonomous vs. induced selfing: | $\chi^{2}(1)=3.9436$, Df resid $=64, p=0.04705$ |

## Seed set: maternal plant hybrid

maternal plant ploidy level: $\quad \chi^{2}(2)=6.0933$, Df resid $=108, p=0.04752$
Multiple Comparisons of Means: Tukey Contrasts:

| $7 \mathrm{x}-6 \mathrm{x}==0$ | Estimate | Std. Error | z value | $\operatorname{Pr}(>\|\mathrm{z}\|)$ |
| :--- | :--- | :--- | :--- | :--- |
| $8 \mathrm{x}-6 \mathrm{x}==0$ | -2.333 | 1.745 | -1.337 | 0.3744 |
| $8 \mathrm{x}-7 \mathrm{x}==0$ | -3.761 | 1.826 | -2.060 | 0.0983 |

autonomous vs. induced selfing:
$\chi^{2}(1)=0.61782$, Df resid $=109, p=0.4319$

## Seed set: autonomous selfing


Multiple Comparisons of Means: Tukey Contrasts:

|  | Estimate | Std. Error | z value | $\operatorname{Pr}(>\|z\|)$ |
| :--- | :--- | :--- | :--- | :--- |
| E. repens - E. hispidus $=0$ | 1.7988 | 0.7542 | 2.385 | 0.0442 |
| hybrid - E. hispidus $=0$ | 0.9651 | 0.5575 | 1.731 | 0.1906 |


| hybrid - E. repens $==0$ | -0.8337 | 0.7445 | -1.120 | 0.4979 |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| ploidy level of maternal plants (regardless on |  |  |  |  |  |
| species): | $\chi 2(2)=7.2812$, Df resid $=112, \mathrm{p}=0.02624$ |  |  |  |  |
| Multiple Comparisons of Means: Tukey Contrasts: |  | Estimate | Std. Error | z value | $\operatorname{Pr}(>\|\mathrm{z}\|)$ |
|  | 0.3314 | 0.8441 | 0.393 | 0.9178 |  |
| $7 \mathrm{x}-6 \mathrm{x}=0$ | -1.3140 | 0.6528 | -2.013 | 0.1076 |  |
| $8 \mathrm{x}-6 \mathrm{x}=0$ | -1.6454 | 0.7852 | -2.095 | 0.0894 |  |
| $8 \mathrm{x}-7 \mathrm{x}=0$ |  |  |  |  |  |

## Seed set: induced selfing

| diploid vs. polyploid paternal plant | $\chi 2(1)=1.941$, Df resid $=142, \mathrm{p}=0.1636$ |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| ploidy level of maternal plants (regardless on |  |  |  |  |
| species): | $\chi 2(2)=8.2165$, Df resid $=141, \mathrm{p}=0.01644$ |  |  |  |
| Multiple Comparisons of Means: Tukey Contrasts: |  |  |  |  |
|  | Estimate Std. | Error | z value | $\operatorname{Pr}(>\|\mathrm{z}\|)$ |
| $7 \mathrm{x}-6 \mathrm{x}==0$ | 1.157 | 1.431 | 0.809 | 0.6935 |
| $8 \mathrm{x}-6 \mathrm{x}=0$ | -2.995 | 1.209 | -2.478 | 0.0344 |
| $8 \mathrm{x}-7 \mathrm{x}==0$ | -4.152 | 1.653 | -2.511 | 0.0315 |
|  | $\chi^{2}(2)=17.269$, Df resid $=141, \mathrm{p}=$ |  |  |  |

maternal plants species (regardless on ploidy level)
Multiple Comparisons of Means: Tukey Contrasts:

|  | Estimate | Std. Error | z value | $\operatorname{Pr}(>\|\mathrm{z}\|)$ |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| E. repens - E. hispidus $=0$ | 20.341 | 6311.326 | 0.003 | 0.99999 |  |
| hybrid - E. hispidus $=0$ | 3.087 | 1.085 | 2.846 | 0.00883 |  |
| hybrid - E. repens $=0$ | -17.253 | 6311.326 | -0.003 | 1.00000 |  |
| diploid vs. polyploid paternal plant | $\chi^{2}(1)=1.941$, Df resid $=142, \mathrm{p}=0.1636$ |  |  |  |  |
| ploidy level of paternal plants (regardless on |  |  |  |  |  |
| species): |  |  |  |  |  |
| Multiple Comparisons of Means: Tukey Contrasts: |  | Estimate | Std. Error | z value | $\operatorname{Pr}(>\|\mathrm{z}\|)$ |


| $6 \mathrm{x}-2 \mathrm{x}==0$ | 0.9742 | 0.3805 | 2.560 | 0.0434 |
| :--- | :--- | :--- | :--- | :--- |
| $7 \mathrm{x}-2 \mathrm{x}==0$ | 1.4377 | 1.1397 | 1.261 | 0.5545 |
| $8 \mathrm{x}-2 \mathrm{x}==0$ | -0.9016 | 0.8214 | -1.098 | 0.6617 |
| $7 \mathrm{x}-6 \mathrm{x}==0$ | 0.4635 | 1.0894 | 0.425 | 0.9704 |
| $8 \mathrm{x}-6 \mathrm{x}=0$ | -1.8758 | 0.7328 | -2.560 | 0.0434 |
| $8 \mathrm{x}-7 \mathrm{x}=0$ | -2.3394 | 1.3094 | -1.787 | 0.2511 |

$\chi^{2}(7)=29.389$, Df resid $=136, p=$
paternal plants species (regardless on ploidy level): 0.0001229
Multiple Comparisons of Means: Tukey Contrasts:

|  | Estimate | Std. Error | z value | $\operatorname{Pr}(>\|z\|)$ |
| :---: | :---: | :---: | :---: | :---: |
| E. repens - E. hispidus $==0$ | 0.35335 | 0.98805 | 0.358 | 1.0000 |
| Hordeum vulgare - E. hispidus $==0$ | -1.12641 | 0.99041 | -1.137 | 0.9398 |
| hybrid - E. hispidus $==0$ | 0.01617 | 0.91425 | 0.018 | 1.0000 |
| Secale cereale - E. hispidus $==0$ | -0.03220 | 1.05058 | -0.031 | 1.0000 |
| T. aestivum - E. hispidus $==0$ | 1.11796 | 0.94695 | 1.181 | 0.9271 |
| T. monococcum - E. hispidus $==0$ | 0.84444 | 1.18872 | 0.710 | 0.9960 |
| $\times$ Triticosecale - E. hispidus $==0$ | 0.92341 | 1.05152 | 0.878 | 0.9855 |
| Hordeum vulgare - E. repens $==0$ | -1.47975 | 0.57292 | -2.583 | 0.1436 |
| hybrid - E. repens $==0$ | -0.33717 | 0.52468 | -0.643 | 0.9979 |
| Secale cereale - E. repens $==0$ | -0.38555 | 0.68130 | -0.566 | 0.9991 |
| T. aestivum - E. repens $==0$ | 0.76462 | 0.55956 | 1.366 | 0.8545 |
| T. monococcum - E. repens $==0$ | 0.49110 | 0.86670 | 0.567 | 0.9990 |
| $\times$ Triticosecale - E. repens $=0$ | 0.57007 | 0.70786 | 0.805 | 0.9913 |
| hybrid - Hordeum vulgare $==0$ | 1.14258 | 0.45951 | 2.487 | 0.1796 |
| Secale cereale - Hordeum vulgare $==0$ | 1.09420 | 0.53618 | 2.041 | 0.4211 |
| T. aestivum - Hordeum vulgare $==0$ | 2.24437 | 0.48971 | 4.583 | $<0.001$ |
| T. monococcum - Hordeum vulgare $=0$ | 1.97085 | 0.76714 | 2.569 | 0.1487 |
| $\times$ Triticosecale - Hordeum vulgare $==0$ | 2.04982 | 0.69743 | 2.939 | 0.0567 |
| Secale cereale - hybrid $=0$ | -0.04837 | 0.58803 | -0.082 | 1.0000 |
| T. aestivum - hybrid ==0 | 1.10179 | 0.36763 | 2.997 | 0.0479 |


| T. monococcum - hybrid $==0$ | 0.82827 | 0.80150 | 1.033 | 0.9637 |
| :--- | :--- | :--- | :--- | :--- |
| $\times$ Triticosecale - hybrid $==0$ | 0.90724 | 0.57101 | 1.589 | 0.7299 |
| T. aestivum - Secale cereale $==0$ | 1.15016 | 0.61234 | 1.878 | 0.5319 |
| T. monococcum - Secale cereale $=0$ | 0.87664 | 0.85208 | 1.029 | 0.9646 |
| $\times$ Triticosecale - Secale cereale $=0$ | 0.95561 | 0.78691 | 1.214 | 0.9162 |
| T. monococcum - T. aestivum $=0$ | -0.27352 | 0.82062 | -0.333 | 1.0000 |
| $\times$ Triticosecale - T. aestivum $=0$ | -0.19455 | 0.62448 | -0.312 | 1.0000 |
| $\times$ Triticosecale - T. monococcum $=0$ | 0.07897 | 0.95564 | 0.083 | 1.0000 |

Electronic Appendix 7. - Results of generalized linear mixed-effects models (GLMM) testing the effect of ploidy level and species of maternal plant and species of paternal plant on seed set and germination rate. Seed set refers to number of seeds/number of florets ratio of each single pollinated spike.

| Model used | GLMM | GLMM |
| :---: | :---: | :---: |
| dataset | seed set: entire | germination rate: entire |
| Maternal plant: |  |  |
| maternal plant species | $\begin{aligned} & \chi 2(2)=12.247, \text { Df resid }= \\ & 246, p=0.002191 \end{aligned}$ | $\begin{aligned} & \chi 2(2)=0.0631, D f \\ & \text { resid }=37, p=0.9689 \end{aligned}$ |
| maternal plant ploidy | $\begin{aligned} & \chi_{2}^{2}(2)=5.3194, \text { Df resid }= \\ & 246, p=0.06997 \end{aligned}$ | $\begin{aligned} & \chi 2(2)=0.0851, \mathrm{Df} \\ & \text { resid }=37, \mathrm{p}=0.9584 \end{aligned}$ |
| Paternal plant: |  |  |
| paternal plant species | $\begin{aligned} & \chi 2(6)=26.31, \text { Df resid }= \\ & 250, \mathrm{p}=0.0001949 \end{aligned}$ | $\begin{aligned} & \chi 2(6)=0.2, \text { Df resid }= \\ & 41, \mathrm{p}=0.9998 \end{aligned}$ |
| paternal plant ploidy | $\begin{aligned} & \chi_{2}^{2}(2)=0.8474, \text { Df resid }= \\ & 246, p=0.6546 \end{aligned}$ | $\begin{aligned} & \chi^{2}(2)=0.2279, \mathrm{Df} \\ & \text { resid }=37, \mathrm{p}=0.8923 \end{aligned}$ |
| autonomous vs. induced selfing | $\begin{aligned} & \chi_{2}^{2}(1)=0.4382, \text { Df resid }= \\ & 245, p=0.508 \end{aligned}$ | $\begin{aligned} & \chi^{2}(1)=0.0011, \mathrm{Df} \\ & \text { resid }=36, \mathrm{p}=0.9733 \end{aligned}$ |
| ploidy of pollination (homo $x$ heteroploid) | $\begin{aligned} & \chi^{2}(1)=0.2986, \text { Df resid } \\ & =245, \mathrm{p}=0.5848 \end{aligned}$ | $\begin{aligned} & \chi^{2}(1)=0.0544, \text { Df } \\ & \text { resid }=36, p=0.8156 \end{aligned}$ |

Maternal plant individual was treated as a random factor in GLMM models. Numbers are $\chi 2$ values obtained from LRT tests (GLMM).

Electronic Appendix 8. - Results of GLMM analysis of entire dataset only with presence or absence of evolved seeds (successful vs. unsuccessful crosses) and GLMM analysis of the successful crosses only.

## GLMM

## Seedset: entire seedset; $0 / 1$ seeds

maternal plant species
maternal plant ploidy paternal plant species paternal plant ploidy autonomous vs. induced selfing ploidy of pollination (homo $x$ heteroploid)

$$
\chi 2(2)=19.401, \text { Df resid }=246, p=6.127 \mathrm{e}-
$$

$$
05
$$

$$
\chi 2(2)=4.7052, \text { Df resid }=246, p=0.09512
$$

$$
\chi^{2}(6)=9.7404, \text { Df resid }=250, p=0.136
$$

$$
\chi^{2}(2)=0.9692, \text { Df resid }=246, p=0.616
$$

$$
\chi^{2}(1)=2.4503, \text { Df resid }=245, p=0.1175
$$

$$
\chi^{2}(1)=0.008, \text { Df resid }=245, p=0.9287
$$

## Seedset: only successful pollinated spikes; number of seeds combined with number of florets

| paternal plant ploidy | $\chi 2(2)=1.2398$, Df resid $=37, p=0.538$ |
| :--- | :--- |
| autonomous vs. induced selfing | $\chi^{2}(1)=7.6176$, Df resid $=36, p=0.00578$ |
| ploidy of pollination (homo x heteroploid) | $\chi^{2}(1)=1.2693$, Df resid $=36, p=0.2599$ |
|  | Maternal plant individual was treated as a random factor in GLMM models. Numbers are $\chi^{2}$ <br> values obtained from LRT tests (GLMM). |

