

## **Supplementary information**

Title: From nature experience to pro-conservation action: how generational amnesia and declining nature-relatedness shape behaviour intentions of adolescents and adults

*This supplementary information has not been peer reviewed*

## Tables

Table S1: Spearman correlation coefficients (rho) between frequency of visiting green spaces (Frequency), nature-relatedness (Nat.relat.), identification skills (Identification), familiarity with species (Familiarity) and pro-conservation behaviour intentions (Intentions) for adolescents, young and older adults. The significance of the correlations is indicated with asterisks: \*\*\*  $p < 0.001$ , \*\*  $p < 0.01$ , \*  $p < 0.05$ .

| <b>Adolescents</b>  |                |                |                |                |                |  |
|---------------------|----------------|----------------|----------------|----------------|----------------|--|
|                     | Frequency      | Nat.relat.     | Familiarity    | Identification | Intentions     |  |
| Frequency           | 1.00           | <b>0.25***</b> | 0.03           | 0.01           | 0.00           |  |
| Nat.relat.          | <b>0.25***</b> | 1.00           | <b>0.26***</b> | <b>0.28***</b> | <b>0.51***</b> |  |
| Familiarity         | 0.03           | <b>0.26***</b> | 1.00           | <b>0.57***</b> | <b>0.19**</b>  |  |
| Identification      | 0.01           | <b>0.28***</b> | <b>0.57***</b> | 1.00           | <b>0.25***</b> |  |
| Intentions          | 0.00           | <b>0.51***</b> | 0.19           | <b>0.25***</b> | 1.00           |  |
| <b>Young adults</b> |                |                |                |                |                |  |
| Frequency           | 1.00           | <b>0.41***</b> | <b>0.19*</b>   | <b>0.28***</b> | <b>0.25***</b> |  |
| Nat.relat.          | <b>0.41***</b> | 1.00           | <b>0.33***</b> | <b>0.41***</b> | <b>0.48***</b> |  |
| Familiarity         | <b>0.19*</b>   | <b>0.33***</b> | 1.00           | <b>0.89***</b> | <b>0.25***</b> |  |
| Identification      | <b>0.28***</b> | <b>0.41***</b> | <b>0.89***</b> | 1.00           | <b>0.27***</b> |  |
| Intentions          | <b>0.25***</b> | <b>0.48***</b> | <b>0.25***</b> | <b>0.27***</b> | 1.00           |  |
| <b>Older adults</b> |                |                |                |                |                |  |
| Frequency           | 1.00           | <b>0.21*</b>   | 0.09           | 0.14           | 0.05           |  |
| Nat.relat.          | <b>0.21*</b>   | 1.00           | <b>0.33***</b> | <b>0.34***</b> | <b>0.47***</b> |  |
| Familiarity         | 0.09           | <b>0.33***</b> | 1.00           | <b>0.79***</b> | 0.16           |  |
| Identification      | 0.14           | <b>0.34***</b> | <b>0.79***</b> | 1.00           | 0.16           |  |
| Intentions          | 0.05           | <b>0.47***</b> | 0.16           | 0.16           | 1.00           |  |

Table S2: Results of the path analysis with the estimated path coefficients (estimate), standard errors (S.E.), z-values (z-value), and p-values (p-value) for adolescents, young adults, and older adults.

|                            | <b>Estimate</b> | <b>S.E.</b> | <b>z-value</b> | <b>p-value</b> |
|----------------------------|-----------------|-------------|----------------|----------------|
| <b><i>Adolescents</i></b>  |                 |             |                |                |
| Identification             |                 |             |                |                |
| Frequency                  | 0.052           | 0.194       | 0.265          | 0.791          |
| NVmean                     |                 |             |                |                |
| Frequency                  | 0.189           | 0.048       | 3.916          | 0.000          |
| Identification             | 0.068           | 0.016       | 4.356          | 0.000          |
| BImean                     |                 |             |                |                |
| NVmean                     | 0.671           | 0.070       | 9.633          | 0.000          |
| Identification             | 0.035           | 0.018       | 1.916          | 0.055          |
| <b><i>Young adults</i></b> |                 |             |                |                |
| Identification             |                 |             |                |                |
| Frequency                  | 1.088           | 0.242       | 4.501          | 0.000          |
| NVmean                     |                 |             |                |                |
| Frequency                  | 0.229           | 0.046       | 5.010          | 0.000          |
| Identification             | 0.058           | 0.012       | 4.612          | 0.000          |
| BImean                     |                 |             |                |                |
| NVmean                     | 0.634           | 0.083       | 7.642          | 0.000          |
| Identification             | 0.021           | 0.016       | 1.254          | 0.210          |
| <b><i>Older adults</i></b> |                 |             |                |                |
| Identification             |                 |             |                |                |
| Frequency                  | 0.670           | 0.299       | 2.238          | 0.025          |
| NVmean                     |                 |             |                |                |
| Frequency                  | 0.119           | 0.064       | 1.857          | 0.063          |
| Identification             | 0.063           | 0.018       | 3.403          | 0.001          |
| BImean                     |                 |             |                |                |
| NVmean                     | 0.568           | 0.088       | 6.470          | 0.000          |
| Identification             | -0.005          | 0.019       | -0.283         | 0.777          |

Figure

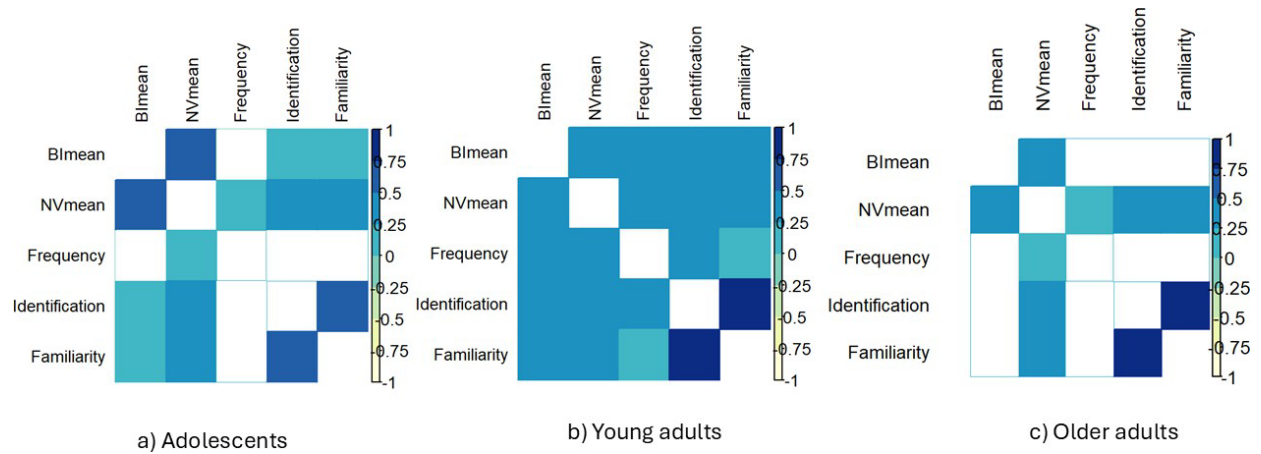


Figure S1: Correlation matrix heat map of Spearman's rho correlation coefficients among concepts for a) adolescents, b) young and c) older adults. PBI = Pro-conservation behaviour intentions, other abbreviations see Table A. The intensity of the blue colour indicates the strength of a positive correlation, with darker blues representing stronger positive correlations (closer to 1.00). Yellow colour would indicate negative correlations that are, however, not present in this heat map.