**Using eDNA to reveal detrimental predator prey interactions caused by invasive species**

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Appendix 1: List of sampling sites during all sampling months across all sampling sites

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **NO.** | **Site** | **Months** | ***Lepomis gibbosus* Cq value** | ***Lepomis gibbosus* DNA concentration** | ***Pelobates fuscus* Cq value** | ***Pelobates fuscus* DNA concentration** | ***Pseudorasbora parva* Cq value** | ***Pseudorasbora parva* DNA concentration** | ***Triturus cristatus* Cq value** | ***Triturus cristatus* DNA concentration** |
| 1 | Biedrichgraben | 5 | 32.83198166 | 0.009559381 | 0 | 0 | 36.455744 | 1.27944E-05 | 0 | 0 |
| 2 | Biedrichgraben | 6 | 31.63454967 | 0.025365217 | 0 | 0 | 35.09588877 | 0.010555345 | 0 | 0 |
| 3 | Biedrichgraben | 7 | 32.04250569 | 0.019364418 | 0 | 0 | 37.26372782 | 0.003152922 | 0 | 0 |
| 4 | Bingenheimer Ried | 5 | 0 | 0 | 33.61045456 | 0.002086737 | 32.91319889 | 0.001279108 | 0 | 0 |
| 5 | Bingenheimer Ried | 6 | 0 | 0 | 30.83571074 | 0.007709689 | 30.32796923 | 0.155300765 | 37.28788884 | 0.001983459 |
| 6 | Bingenheimer Ried | 7 | 33.6781968 | 0.007192407 | 0 | 0 | 30.35429404 | 0.007192407 | 0 | 0 |
| 7 | Breitwiesen 1 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 39.22341029 | 7.77778E-05 |
| 8 | Breitwiesen 1 | 6 | 0 | 0 | 0 | 0 | 37.86833333 | 0.001710363 | 39.2885437 | 3.64396E-05 |
| 9 | Breitwiesen 1 | 7 | 0 | 0 | 0 | 0 | 39.87928009 | 0.000717282 | 0 | 0 |
| 10 | Breitwiesen 2 | 5 | 0 | 0 | 0 | 0 | 38.33059071 | 0.001806131 | 37.93149334 | 0.000330656 |
| 11 | Breitwiesen 2 | 6 | 0 | 0 | 0 | 0 | 37.86833333 | 0.002386738 | 39.52471733 | 1.51667E-05 |
| 12 | Breitwiesen 2 | 7 | NA | NA | NA | NA | NA | NA | NA | NA |
| 13 | Breitwiesen 3 | 5 | 0 | 0 | 0 | 0 | 32.88571972 | 0.036911506 | 0 | 0 |
| 14 | Breitwiesen 3 | 6 | 0 | 0 | 0 | 0 | 34.34984951 | 0.01583963 | 0 | 0 |
| 15 | Breitwiesen 3 | 7 | 0 | 0 | 0 | 0 | 32.50692728 | 0.045251348 | 0 | 0 |
| 16 | Breitwiesen 4 | 5 | 0 | 0 | 0 | 0 | 28.90829447 | 0.348958936 | 38.40825653 | 0.000246429 |
| 17 | Breitwiesen 4 | 6 | 0 | 0 | 0 | 0 | 34.18132824 | 0.017716719 | 0 | 0 |
| 18 | Breitwiesen 4 | 7 | NA | NA | NA | NA | NA | NA | NA | NA |
| 19 | Breitwiesen 5 | 5 | 0 | 0 | 0 | 0 | 31.48079533 | 0.085005996 | 0 | 0 |
| 20 | Breitwiesen 5 | 6 | 0 | 0 | 0 | 0 | 31.95663812 | 0.062993715 | 0 | 0 |
| 21 | Breitwiesen 5 | 7 | 0 | 0 | 0 | 0 | 32.95144018 | 0.035929677 | 0 | 0 |
| 22 | Grenzstock groß | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 23 | Grenzstock groß | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 24 | Grenzstock groß | 7 | 0 | 0 | 0 | 0 | 37.98835945 | 0.002645738 | 0 | 0 |
| 25 | Grenzstock klein | 5 | 0 | 0 | 31.88122961 | 0.005045909 | 0 | 0 | 32.83567725 | 0.005865273 |
| 26 | Grenzstock klein | 6 | 0 | 0 | 26.82279587 | 0.070971224 | 0 | 0 | 28.36849954 | 0.269657118 |
| 27 | Grenzstock klein | 7 | 0 | 0 | 31.58596929 | 0.009130447 | 37.98835945 | 0.002645738 | 30.12979147 | 0.046114059 |
| 28 | Grubenteich groß | 5 | 0 | 0 | 34.31545893 | 0.001404598 | 0 | 0 | 38.7735761 | 0.000114192 |
| 29 | Grubenteich groß | 6 | 0 | 0 | 35.14837986 | 0.000939956 | 0 | 0 | 33.24571398 | 0.011379875 |
| 30 | Grubenteich groß | 7 | 0 | 0 | 36.5511996 | 0.000161092 | 27.57414267 | 1.191622009 | 33.58760325 | 0.006618884 |
| 31 | Grubenteich klein | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 34.35652669 | 0.002443217 |
| 32 | Grubenteich klein | 6 | 0 | 0 | 30.71365145 | 0.015716937 | 0 | 0 | 35.89307446 | 0.002131372 |
| 33 | Grubenteich klein | 7 | 0 | 0 | 38.06569015 | 0.00010555 | 33.33290185 | 0.032907154 | 36.94024065 | 0.000799946 |
| 34 | Leidhecken | 5 | 0 | 0 | 37.85162608 | 0.000123422 | 36.34051132 | 1.97511E-05 | 33.3343349 | 0.010504809 |
| 35 | Leidhecken | 6 | 0 | 0 | 37.23425929 | 0.000121761 | 38.24511111 | 0.002659547 | 35.56442346 | 0.001715247 |
| 36 | Leidhecken | 7 | 0 | 0 | 0 | 0 | 36.04716407 | 0.006480681 | 35.56375249 | 0.001739732 |
| 37 | Leidhecken blofeld | 5 | 0 | 0 | 36.95709907 | 0.000281982 | 0 | 0 | 38.80057928 | 0.000345205 |
| 38 | Leidhecken blofeld | 6 | 0 | 0 | 36.94045258 | 0.000153432 | 0 | 0 | 39.05470339 | 0.000159901 |
| 39 | Leidhecken blofeld | 7 | 0 | 0 | 36.47036192 | 0.000375609 | 0 | 0 | 37.3225068 | 0.000622996 |
| 40 | Pfaffensee 1 | 5 | 0 | 0 | 31.40536181 | 0.012043022 | 0 | 0 | 0 | 0 |
| 41 | Pfaffensee 1 | 6 | 0 | 0 | 37.99095535 | 0.000107271 | 0 | 0 | 0 | 0 |
| 42 | Pfaffensee 1 | 7 | 0 | 0 | 34.35157903 | 0.00148294 | 0 | 0 | 0 | 0 |
| 43 | Pfaffensee 2 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 38.4721756 | 0.000254207 |
| 44 | Pfaffensee 2 | 6 | 0 | 0 | 38.16911443 | 0.000105004 | 0 | 0 | 36.77596537 | 0.001056542 |
| 45 | Pfaffensee 2 | 7 | 0 | 0 | 38.05312856 | 0.0001094 | 37.68831889 | 0.004005789 | 0 | 0 |
| 46 | Reichelheim alt | 5 | 0 | 0 | 0 | 0 | 30.9624548 | 0.116389755 | 0 | 0 |
| 47 | Reichelheim alt | 6 | 0 | 0 | 0 | 0 | 31.05873723 | 0.106623436 | 0 | 0 |
| 48 | Reichelheim alt | 7 | 0 | 0 | 0 | 0 | 34.29214181 | 0.019202092 | 0 | 0 |
| 49 | Reichelheim neu | 5 | 34.7735121 | 0.005010623 | 0 | 0 | 31.59490797 | 0.097565396 | 0 | 0 |
| 50 | Reichelheim neu | 6 | 36.42495261 | 0.001277723 | 0 | 0 | 32.88571972 | 0.036911506 | 0 | 0 |
| 51 | Reichelheim neu | 7 | 0 | 0 | 0 | 0 | 34.55199136 | 0.01452632 | 0 | 0 |
| 52 | Rockenberg bahndamn | 5 | 0 | 0 | 0 | 0 | 30.28419219 | 0.157913148 | 0 | 0 |
| 53 | Rockenberg bahndamn | 6 | NA | NA | NA | NA | NA | NA | NA | NA |
| 54 | Rockenberg bahndamn | 7 | 0 | 0 | 0 | 0 | 33.11766434 | 0.034241944 | 0 | 0 |
| 55 | Schwelteich groß | 5 | 33.69677778 | 0.007160507 | 0 | 0 | 31.15695635 | 0.095633232 | 0 | 0 |
| 56 | Schwelteich groß | 6 | 34.59480192 | 0.00300113 | 0 | 0 | 36.48854701 | 0.00496692 | 0 | 0 |
| 57 | Schwelteich groß | 7 | 37.00322596 | 0.000786117 | 0 | 0 | 0 | 0 | 0 | 0 |
| 58 | Schwelteich klein | 5 | 0 | 0 | 32.64532089 | 0.019870935 | 0 | 0 | 0 | 0 |
| 59 | Schwelteich klein | 6 | 0 | 0 | 34.17778609 | 0.001767605 | 0 | 0 | 35.27758408 | 0.002040051 |
| 60 | Schwelteich klein | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 61 | Steinbruch groß | 5 | 33.35544444 | 0.008956452 | 0 | 0 | 0 | 0 | 0 | 0 |
| 62 | Steinbruch groß | 6 | 29.33251678 | 0.096036311 | 0 | 0 | 0 | 0 | 0 | 0 |
| 63 | Steinbruch groß | 7 | 35.05462265 | 0.002195974 | 0 | 0 | 0 | 0 | 0 | 0 |
| 64 | Steinbruch klein | 5 | 0 | 0 | 0 | 0 | 39.63727951 | 0.000817743 | 0 | 0 |
| 65 | Steinbruch klein | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 39.18449211 | 0.000141967 |
| 66 | Steinbruch klein | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 67 | Stockborn 1 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 68 | Stockborn 1 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 69 | Stockborn 1 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 38.11897278 | 0.000103121 |
| 70 | Stockborn 2 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 71 | Stockborn 2 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 72 | Stockborn 2 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 37.54061254 | 0.000130236 |
| 73 | Stockborn 3 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 74 | Stockborn 3 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 75 | Stockborn 3 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 76 | Stockborn 4 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 77 | Stockborn 4 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 78 | Stockborn 4 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 79 | Stockborn groß | 5 | 39.19521459 | 0.000213341 | 35.60077778 | 0.002463678 | 29.44378387 | 0.252929469 | 0 | 0 |
| 80 | Stockborn groß | 6 | 39.371 | 0.000259882 | 36.08160683 | 0.000294112 | 31.48079533 | 0.085005996 | 38.96930218 | 0.000157224 |
| 81 | Stockborn groß | 7 | 38.62963443 | 0.000291036 | 37.48960982 | 0.000185431 | 28.90829447 | 0.348958936 | 38.69585609 | 0.000213438 |
| 82 | Stockborn klein | 5 | 0 | 0 | 0 | 0 | 31.06534746 | 0.11448029 | 35.47483826 | 0.002515977 |
| 83 | Stockborn klein | 6 | 0 | 0 | 38.09076246 | 0.000133114 | 34.18132824 | 0.017716719 | 39.18539333 | 0.000114184 |
| 84 | Stockborn klein | 7 | 0 | 0 | 0 | 0 | 29.45913845 | 0.250416895 | 37.66141849 | 0.000673318 |
| 85 | Teich nord+süd | 5 | 0 | 0 | 0 | 0 | 29.85093875 | 0.037857778 | 39.41392422 | 7.45705E-05 |
| 86 | Teich nord+süd | 6 | 0 | 0 | 0 | 0 | 32.80822415 | 0.038160775 | 0 | 0 |
| 87 | Teich nord+süd | 7 | 0 | 0 | 0 | 0 | 27.8542845 | 1.383757264 | 0 | 0 |
| 88 | Vermehrung | 5 | 0 | 0 | 0 | 0 | 32.60946077 | 0.001472051 | 35.81673601 | 0.000963078 |
| 89 | Vermehrung | 6 | NA | NA | NA | NA | NA | NA | NA | NA |
| 90 | Vermehrung | 7 | 0 | 0 | 0 | 0 | 27.1318851 | 1.349541474 | 0 | 0 |
| 91 | Wisselheim | 5 | 0 | 0 | 0 | 0 | 33.12517124 | 0.03187614 | 0 | 0 |
| 92 | Wisselheim | 6 | 0 | 0 | 0 | 0 | 32.65211741 | 0.041163754 | 0 | 0 |
| 93 | Wisselheim | 7 | 0 | 0 | 0 | 0 | 36.18498145 | 0.006093916 | 0 | 0 |