CORRECTION

Correction: Identification of Reproduction-Specific Genes Associated with Maturation and Estrogen Exposure in a Marine Bivalve Mytilus edulis

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Fig 1 of the published article is incomplete. Please view the complete Fig 1 and its legend here.

There are errors in Table 1 and Table 2 of the published article. Please view the correct tables here.
Fig 1. Real-time quantitative RT-PCR validation of differential screening results of *M. edulis* developing gonad versus mature gonad samples (1A–1E) and *M. edulis* experimentally-exposed to E2 (1F–1H). Data plotted as mean±SEM, n = 15 samples. * = p<0.05; ** = p<0.01.

doi:10.1371/journal.pone.0132080.g001
Table 1. Differentially expressed (subtracted) mRNAs identified in *M. edulis* testis at two stages of gonadal development. *a*Down-regulated in early developing testes relative to mature testes. *b*Up-regulated in early developing testes relative to mature testes.

| Clone accession no. | Category & gene identity | Length (bp) | Homolog species / Accession no. | E-value |
|---------------------|--------------------------|-------------|---------------------------------|---------|
| HQ690234            | Senescence-associated protein | 155         | Brugia malayi XP_001900327.1   | 5.0E-10 |
| AJ492924.1          | Histone 2A                | 301         | M. edulis AJ492924.1            | 1.0E-108|
| AY484747.1          | 16S ribosomal protein      | 931         | M. edulis AY484747.1            | 0       |
| FM995162.1          | Vitelline coat lysin M7 precursor | 635     | M. edulis BAA03551.1            | 3.0E-123|
| HQ678182            | Sialic acid binding lectin| 397         | Helix pomatia ABF00124.1        | 4.0E-15 |
| CAX33833            | Putative vitelline envelope receptor for lysin (VERL) | 663       | M. edulis CAX33833             | 4.0E-125|
| HQ678180            | Testis-specific serine/threonine kinase 1 (TSTK1) | 815       | Strongylocentrotus purpuratus XP_787865.1 | 4.0E-70 |
| HQ678181            | Testis-specific A-kinase-anchoring-protein | 182       | Gallus gallus XP_002162537.1   | 9.0E-5  |
| HQ67816             | Histone H2A isoform 2     | 332         | Haliotis discus discus ACJ12611.1 | 1.0E-53 |
| HQ678184            | Beta-tubulin              | 511         | C. gigas AAU93877.1             | 9.0E-8  |
| AB257133            | ER                        | 111         | M. edulis BAF34366.2            | 1.0E-12 |
| HQ678183            | Bindin precursor 5 repeat variant (acrosomal protein) | 392       | C. gigas ABQ18234.1            | 7.0E-14 |
| HQ678185            | Phosphohexesterase 1      | 533         | S. purpuratus NP_001091918.1    | 5.0E-52 |
| AY130198.1          | Cytochrome c oxidase subunit III | 254       | M. edulis AAV68300.1            | 2.0E-31 |

Table 2. Differentially expressed (subtracted) mRNAs identified in *M. edulis* testis following E2 exposure. *a*Down-regulated in control testes relative to E2-exposed testes. *b*Up-regulated in control testes relative to E2-exposed testes.

| Clone Accession No. | Category & gene identity (BlastX) | Length (bp) | Homolog species/Accession no. | E-value |
|---------------------|-----------------------------------|-------------|--------------------------------|---------|
| HQ664951            | Complement C1q-like protein        | 111         | Alliopoda melanoleuca XP_002918680.1 | 7.0E-5  |
| HQ690237            | Alpha tubulin                      | 297         | C. gigas BAD80736.1             | 2.0E-51 |
| HQ690238            | Beta tubulin                       | 501         | Rattus norvegicus NP_954525.1   | 2.0E-24 |
| HQ690235            | Ribosomal protein L7               | 240         | C. gigas AJ557884.1             | 3.0E-30 |
| HQ690239            | Bromodomain adjacent to zinc finger domain, 1A | 369       | G. gallus XP_426440.2            | 7.0E-24 |
| HQ690240            | Elongation factor 1 gamma          | 162         | Saccoglossus kowalevskii NP_001171816.1 | 1.0E-13 |
| HQ664949            | Vitelline envelope zona pellucida domain 9 | 900       | Haliothis rufescens ABF72949.1  | 1.0E-26 |
| HQ664950            | C1q domain containing protein      | 143         | Argopecten irradians ADD17343   | 7.0E-5  |
| HQ664948            | RWD domain containing protein 4A   | 240         | Caligus rogercresseyi ACO11028.1 | 3.0E-17 |
| HQ664952            | Hemaglutinin/amoeocyte aggregation factor precursor | 240       | Salmo salar ACI68653.1         | 1.0E-10 |
| YP_073337           | Cytochrome c oxidase subunit II    | 448         | M. edulis YP_073337.1           | 4.0E-56 |
| YP_073338.1         | NADH dehydrogenase subunit 1      | 647         | M. edulis YP_07338.1            | 4.0E-51 |
| HQ690236            | Triosephosphate isomerase TIM      | 156         | Metapenaeus ensis AAP79983.1    | 3.0E-13 |
| CAX33833            | Putative vitelline envelope receptor for lysin (VERL) | 663       | M. edulis CAX33833             | 4.0E-125|
| AAV68423            | Cytochrome c oxidase subunit 1     | 534         | M. edulis AAV68411.1            | 8.0E-50 |
| AAV68416            | Cytochrome b                       | 302         | M. edulis AAV68404.1            | 6.0E-58 |
| HQ690243            | Ferritin-like protein               | 492         | Pinctada fucata AAO12076.1     | 2.0E-78 |
| HQ690241            | Senescence-associated protein      | 318         | Trichoplax adhaerens XP_002118266.1 | 6.0E-49 |
| HQ690244            | Spectrin beta chain                | 293         | Harpegnathos saltator EFN75523.1 | 1.0E-40 |

doi:10.1371/journal.pone.0132080.t001
doi:10.1371/journal.pone.0132080.t002

Reference

1. Ciocan CM, Cubero-Leon E, Minier C, Rotchell JM (2011) Identification of Reproduction-Specific Genes Associated with Maturation and Estrogen Exposure in a Marine Bivalve *Mytilus edulis*. PLoS ONE 6(7): e22326. doi: 10.1371/journal.pone.0022326 PMID: 21818309