**NRSP 8 Publications - 2018**

**Aquaculture**

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2. Tan S, Wang W, Tian C, Niu D, Zhou T, Jin Y, Yang Y, Gao D, Dunham R, Liu ZJ. 2019. Heat stress induced alternative splicing in catfish as determined by transcriptome analysis. *Comparative Biochemistry and Physiology Part D: Genomics and Proteomics* 29: 166-172.

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4. Li N, Bao L, Zhou T, Yuan Z, Liu S, Dunham R, Li Y, Wang K, Xu X, Jin Y, Zeng Q, Gao S, Fu Q, Liu Y, Yang Y, Li Q, Meyer A, Gao D, Liu ZJ. 2019. Genome sequence of walking catfish (*Clarias batrachus*) provides insight into terrestrial adaptation. *BMC Genomics*, 19: 952.<https://doi.org/10.1186/s12864-018-5355-9>

5. Zhou T, Yuan Z, Tan Suxu, Jin Yulin, Yang Yujia, Shi H, Wang W, Niu D, Gao L, Jiang W, Gao D, and Liu ZJ. 2018. A review of molecular responses of catfish to bacterial diseases and abiotic stresses. *Frontiers in Physiology* 9:1113. <https://doi.org/10.3389/fphys.2018.01113>

6. Tan S, Wang W, Zhong X, Tian C, Niu D, Bao L, Zhou T, Jin Y, Yuan Z, Yang Y, Gao D, Dunham R, and Liu ZJ. 2018. Increased alternative splicing as a host response to bacterial infections in catfish. *Marine Biotechnology* 20: 729-738. DOI: 10.1007/s10126-018-9844-2.

7. Yang Y, Wang X, Liu Y, Fu Q, Tian C, Wu C, Liu S, Gao D, Dunham R, Liu ZJ. 2018. Transcriptome analysis reveals enrichment of genes associated with auditory system in swimbladder of channel catfish. *Comparative Biochemistry and Physiology - Part D: Genomics and Proteomics* 27: 30-39.<https://doi.org/10.1016/j.cbd.2018.04.004>

8. Wang E, Yuan Z, Wang K, Gao D, Liu ZJ, Liles MR. 2019. Consumption of florfenicol-medicated feed alters the composition of the channel catfish intestinal microbiota including enriching the relative abundance of opportunistic pathogens. *Aquaculture* 501: 111-118.

9. Tan S, Zhou T, Wang W, Jin Y, Wang X, Geng X, Gao D, Dunham R, and Liu ZJ. 2018. GWAS analysis using F2 interspecific hybrids reveals superior blue catfish alleles responsible for strong resistance against enteric septicemia of catfish. *Molecular Genetics and Genomics* 293:1107-1120. DOI: 10.1007/s00438-018-1443-4

10. Yuan Z, Zhou T, Tian C, Bao L, Liu S, Shi H, Yang Y, Gao D, Dunham R, Waldbieser G, Liu ZJ. 2018. The annotation of repetitive elements in the genome of channel catfish (*Ictalurus punctatus*). *PLoS One* 13: e0197371. <https://doi.org/10.1371/journal.pone.0197371>

11. Shi H, Zhou T, Wang X, Yang , Wu C, Liu S, Bao L, Li N, Yuan Z, Jin Y, Tan S, Wang W, Zhong X, Qin G, Gao D, Dunham R, Liu ZJ. 2018. Genome-wide association analysis of intra-specific QTL associated with the resistance for enteric septicemia of catfish. *Molecular Genetics and Genomics* 293: 1365-1378. DOI: 10.1007/s00438-018-1463-0

12. Zhou T, Li N, Jin Y, Zeng Q, Prabowo W, Liu Y, Tian C, Bao L, Liu S, Yuan Z, Fu Q, Gao S, Gao D, Dunham R, Shubin NH, Liu ZJ. 2018. Chemokine C-C motif ligand 33 is a key regulator of teleost fish barbel development. *Proceedings of the National Academy of Sciences* 115 (22): e5018-e5027

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14. Yang Y, Fu Q, Wang X, Liu Y, Zeng Q, Li Y, Gao S, Bao L, Liu S, Gao D, Dunham R, and Liu ZJ. 2018. Comparative transcriptome analysis of the swimbladder reveals expression signatures in response to low oxygen stress in channel catfish, *Ictalurus punctatus. Physiological Genomics* 50:636-647.<https://doi.org/10.1152/physiolgenomics.00125.2017>

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20. Li, Li, et al. 2018. "Divergence and plasticity shape adaptive potential of the Pacific oyster." *Nature ecology & evolution*2.11: 1751.

21. Ben-Horin, Tal, et al. 2018. "Genetic variation in anti-parasite behavior in oysters." *Marine Ecology Progress Series* 594: 107-117.

22. De Wit, Pierre, et al. 2018. "Gene expression correlated with delay in shell formation in larval Pacific oysters (*Crassostrea gigas*) exposed to experimental ocean acidification provides insights into shell formation mechanisms." *BMC genomics* 19.1:160.

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