

# International Conference on **Transcriptomics**

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## RNA binding antibodies as tools for probing transcriptomes

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Antibodies are powerful reagents for biomedical research, diagnostics and therapeutics. The vast majority of antibody applications have focused on targeting features of the terrestrial proteome. Engineering antibodies to bind RNA directly offers a way to harness powerful technologies to study transcriptomes. We are developing phage display antibody libraries for engineering antibodies that recognize structured RNAs with high affinity and specificity. In one particular application, we are using the antibodies as chaperones for the crystallization and structure determination of RNAs.

### Biography

Joseph A Piccirilli completed his PhD from Harvard University in 1989. Later he pursued Howard Hughes Postdoctoral research fellow from 1989-1993 from University of Colorado at Boulder. He joined as Assistant Professor at University of Chicago from 1993-2000. Currently he is working as an Investigator, Howard Hughes Medical Institute with joint appointment in the department of biochemistry and molecular biology.

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