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Data Article

Dataset of STAT5A status in breast cancer

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ABSTRACT

We analysed STAT5A gene expression in breast cancer using the Oncomine database. We exemplify four representative studies showing that STAT5A is generally downregulated in breast cancer.

1. Specifications Table

Subject area	*Biology*
More specific subject area	*Cancer*
Type of data	*Figure*
How data was acquired	*Database Oncomine* [1]
Data format	*Filtered and analyzed*
Experimental factors	*Not applicable*
Experimental features	*We query Oncomine for STAT5A and breast cancer*
Data source location	*Montréal, Québec*
Data accessibility	*Data is within this article.*

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2. Value of the data

- We show that in different independent studies STAT5A is downregulated in breast cancer.
- The downregulation of STAT5A supports a tumour suppressor role for STAT5A in breast cancer and is consistent with our recent discovery that STAT5A is a p53-target gene [2].
- High levels of STAT5A indicate a good prognosis in breast cancer and it assessment can be used in the clinics as part of a multigene prognostic test (Fig. 1).

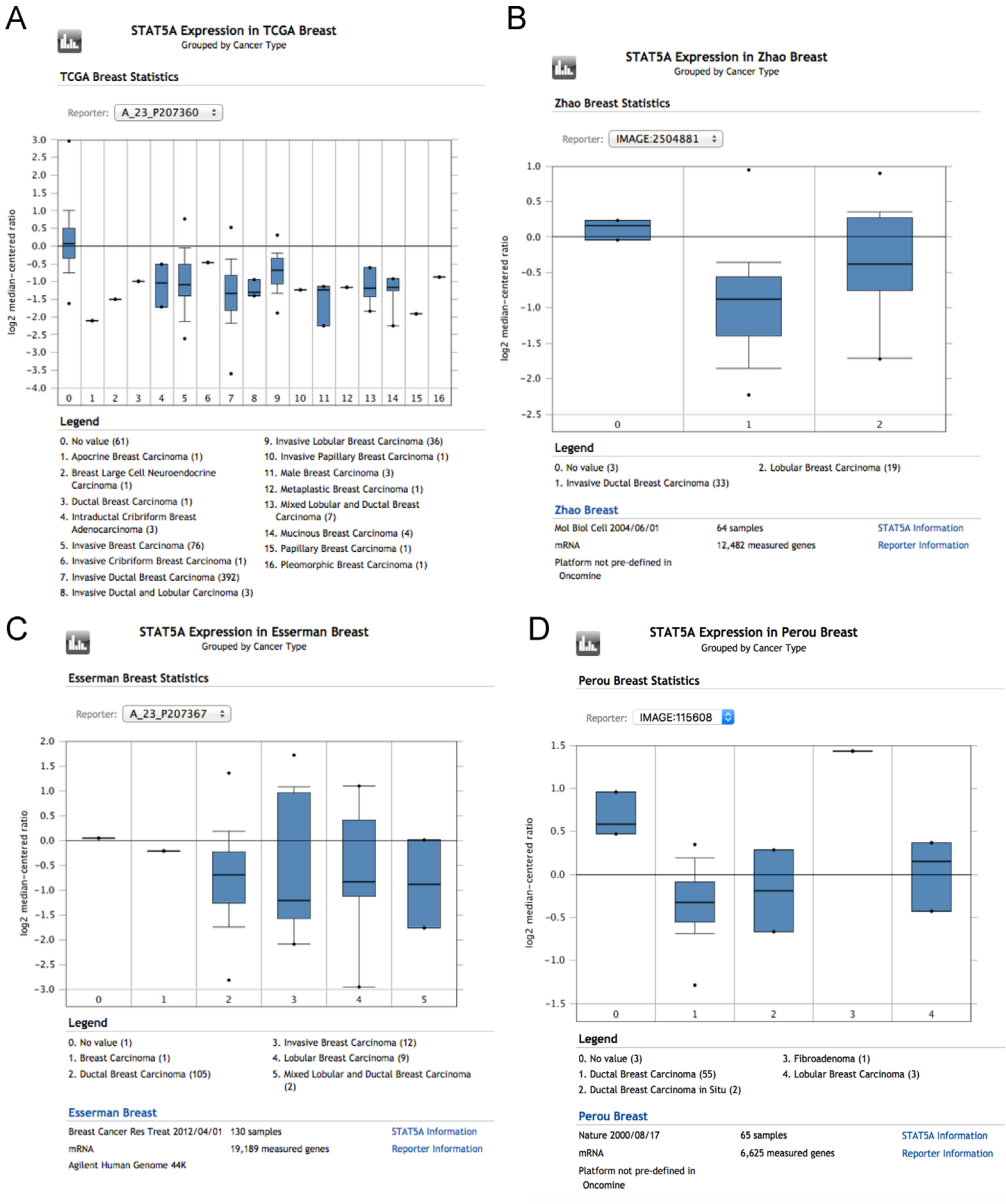

Fig. 1. Downregulation of STAT5A expression in breast cancer (from Oncomine).

3. Data

We show that STAT5A is downregulated in breast cancer using several large-scale gene expression analyses available at Oncomine: https://www.oncomine.org/resource/main.html [1].

4. Experimental design, materials and methods

We used the publicly available Oncomine search to find the status of STAT5A in breast cancer.

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Appendix A. Supplementary material

Supplementary data associated with this article can be found in the online version at http://dx.doi.org/10.1016/j.dib.2016.02.073.

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[2] U.K. Mukhopadhyay, J. Cass, L. Raptis, A.W. Craig, V. Bourdeau, S. Varma, et al., STAT5A is regulated by DNA damage via the tumor suppressor p53, Cytokine (2016), http://dx.doi.org/10.1016/j.cyto.2016.01.013, this issue.