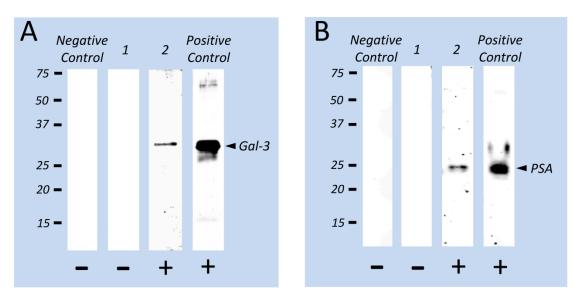
The influence of PSA autoantibodies in prostate cancer patients: a prospective clinical study-II

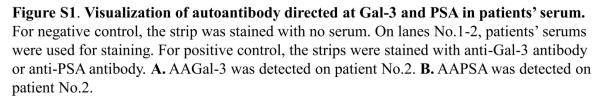
Supplementary Methods

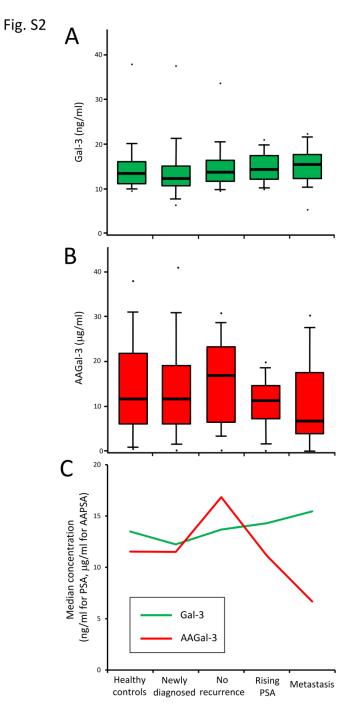
Immunoblot

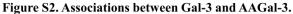
In order to directly visualize AA contained in a patient's serum, immunoblot was performed. Human recombinant Gal-3 or human recombinant PSA (R&D systems, Minneapolis, MN) were mixed with sample buffer and 500ng of recombinant Gal-3 and 100ng of recombinant PSA were subjected to 10% SDS-polyacrylamide gel electrophoresis (PAGE) in non-reducing conditions. The transferred membrane was quenched with 0.1% casein / tris-buffered saline (TBS) for 1 h, and then was cut between the lanes. The strips were incubated separately with 60-folds diluted patient serums for overnight, and then incubated with anti-human IgG secondary antibody conjugated with Dylight[™] 680 (Rockland, Gilbertsville, PA) for 1 h. As positive controls, anti-Gal-3 rat monoclonal antibody (TIB166, ATCC) and anti-PSA goat polyclonal antibody (C-19, Santa Cruz Biotechnology) were used. Reacted AA with the recombinant proteins on the strips were visualized by Odyssey Infrared Imaging System and Odyssey application software (LI-COR Biosciences, Lincoln, NE).











A-B. Box plots show statistics of the distributions of Gal-3 (**A**), and AAGal-3 (**B**) by clinical group. Whisker heights indicate the 90th and 10th percentiles of the distribution. Bold horizontal lines within the box indicate the median values. The dots indicate maximum or minimum values of each group. **C**. The median values of Gal-3 and AAGal-3 were plotted as a line graph across the 5 clinical groups. The green line indicates a transition of Gal-3 level. The red line indicates a transition of AAGal-3 level.