**Supplemental Table 4.** Criteria used to score autoimmune thyroiditis and thyroid cancer by ultrasound in mice.

|  |  |  |  |
| --- | --- | --- | --- |
|  | *Characteristics* | *Category* | *Score* |
| Thyroiditis | Homogeneous appearance and higher reflectivity than neck muscles | Hyperechogenicity | 0 |
| Thyroid parenchyma darker than the normal parenchyma | Mild hypoechogenicity | 1 |
| Thyroid parenchyma darker than normal although not as dark as neck muscles | Moderate hypoechgenicity | 2 |
| Thyroid parenchyma darker than normal and similar or darker than neck muscles | Marked hypoechogenicity | 3 |
|  |  |  |  |
| Thyroid cancer  (TI-RADS) | No nodules | Normal | 1 |
| Pure cyst or spongiform nodule | Benign | 2 |
| Irregular shape and/or solid composition | Low risk | 3 |
| Irregular shape and mildly hypoechoic | High risk | 4 |
| Three or more of the following features: taller than wide, markedly hypoechoic, irregular margins, microcalcifications, and extra-capsular invasion | Very high risk | 5 |