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Dr. Takano first reported the gene expression profile of thyroid cancer and identified differential markers of thyroid cancer such as oncofetal fibronectin and TFF3. In 2000, he proposed a new theory of thyroid carcinogenesis, the fetal cell carcinogenesis theory. In fetal cell carcinogenesis, thyroid cancer arises from fetal thyroid cells only exist during childhood. He has published many articles on overdiagnosis of juvenile thyroid cancer. He was a member of the Prefectural Oversight Committee for the Fukushima Health Management Survey and the Task Force for Thyroid Examination in 2017-2019. He is a member of the Task Force for the European Thyroid Association Management Guidelines for Children with Thyroid Nodules and Differentiated Thyroid Cancer since 2019.