



Report from active participation in 16th International Congress of Endocrinology & The Endocrine Society's 96th Annual Meeting & Expo (ICE/ENDO) Chicago, USA – Krystian Jazdzewski

The 16th Congress of Endocrinology gathered over 10,000 endocrinologists and basic scientists from all over the world. I had pleasure to present our data during an oral session devoted to the thyroid neoplasia, held on the 24th of June. The conference was devoted to the subject of endocrinology and endocrine diseases.

Title of oral presentation: Next-Generation Sequencing Reveals a Novel, Thyroglobulin-Embedded microRNA Gene Deregulated in Papillary Thyroid Carcinoma

Authors: Monika Kolanowska, Anna Wojcicka, Anna Kubiak, Michal Swierniak, Monika Maciag, Wieslaw Wiechno and **Krystian Jazdzewski (presenting author)**

ICE/ENDO 2014
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Friday, June 20	9:30 AM OR52-1 Comparison of Differentiated Thyroid Cancer in Pediatric and Adolescents with Young Age Group <i>Dania M Alkafaji, MD, Department of Medicine, King Faisal Specialist Hospital & research center, Riyadh, Saudi Arabia, Mahmoud Tuli, MD, Department of Medical Imaging, King Faisal Specialist Hospital & research center, Riyadh, Saudi Arabia and Ali Saeed Alzahrani, MD, Department of Medicine and Department of Molecular Oncology, King Faisal Specialist Hospital & Research Centre, Riyadh, Saudi Arabia</i>
Saturday, June 21	9:45 AM OR52-2 The Risk of Leukemia Is Elevated after Higher Dose of Radioactive Iodine Therapy in Patients with Thyroid Cancer: A Nationwide, Population-Based Study in Korea <i>Yoon Young Cho, Ji Young Joung, Na Kyung Kim, Seo Young Sohn, M.D., Jae Hoon Chung, M.D., Ph.D. and Sun Wook Kim, M.D., Ph.D., Division of Endocrinology and Metabolism, Department of Internal Medicine, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, South Korea</i>
Sunday, June 22	10:00 AM OR52-3 Next-Generation Sequencing Reveals a Novel, Thyroglobulin-Embedded microRNA Gene Deregulated in Papillary Thyroid Carcinoma <i>Monika Kolanowska, Anna Wojcicka, Anna Kubiak, Michal Swierniak, Monika Maciag and Krystian Jazdzewski, Genomic Medicine, Department of General, Transplant and Liver Surgery, Medical University of Warsaw, Warsaw, Poland</i>
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We employed the next-generation sequencing (NGS) to reveal comprehensive miRNA profiles of normal thyroid and papillary thyroid carcinoma (PTC). The search resulted in identification of putative novel microRNA genes, including a novel miR encoded within the thyroglobulin gene. The expression of both miR and its host gene is decreased in tumor, possibly leading to deregulation of important pathways.



Since the target genes for the novel miR include kinases involved in the MAP Kinase signalling, we propose that in normal thyroid the newly identified miRNA plays a fine tuning effect on the maintenance of the MAPK pathway, inhibiting the expression of its targets. This regulation is disturbed in cancer due to severe downregulation of microRNA, therefore the altered expression of the novel miR-TG can be one of the risk factors for PTC.



Krystian Jazdzewski during the poster session