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The Unfolded Protein Response: An Overview

The unfolded protein response (UPR) is the cells' way of maintaining the balance of protein folding in the endoplasmic reticulum, which is the section of the cell designated for folding proteins with specific destinations such as other organelles or to be secreted by the cell.

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PD-1 (programmed cell death-1) is the central inhibitory receptor regulating CD8 T cell exhaustion during chronic viral infection and cancer.

Acquisition of CD44+CD24- phenotype in relapsed tumors was not solely due to Darwinian selection.

The best demonstrated role of CD8+ Tregs is to suppress GC reaction.

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ความปลอดภัยทางอาหาร (food safety) หมายถึง การจัดการให้อาหาร และสินค้าเกษตรที่นำมาเป็นอาหารบริโภคสำหรับมนุษย์มีความปลอดภัย โดยไม่มีลักษณะเป็นอาหารไม่บริสุทธิ์ตามกฎหมายว่าด้วยอาหาร และตามกฎหมายอื่นที่เกี่ยวข้อง เพื่อให้ผู้บริโภคปลอดภัยจากอันตรายที่มาจากอาหาร (food hazard) ได้แก่ อันตรายทางชีวภาพ อันตรายทางเคมี อันตรายทางกายภาพ

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RNA sequencing general workflow

RNA fragmentation can be done in a variety of ways, such as with divalent cation solutions or an enzymatic approach such as using RNase III. Alternatively, one could fragment full-length cDNA prior to entering the NGS library construction workflow.

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Heterogeneity of the T cell-scarce glioblastoma microenvironment

Low T cell infiltration and dominance of brain-resident microglia and monocyte-derived macrophages (MDMs) are partially responsible for limited T cell-centric immunotherapeutic efficacy in glioblastoma. Since RT can function as an immune sensitizer by inducing immunogenic cell death and increasing TAA availability¹, we characterized the dynamic glioblastoma TME in response to RT and in recurrent tumors.

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Alveolar Bone Density Changes Around the Teeth at T1 and T0

From T0 to T1, the 8 patients underwent 7 months of active orthodontic treatment to straighten their teeth. The method for measuring the bone density around the teeth was modified slightly from that used in our previous study.²³ The measurement values, particularly those at the intermediate level, differed slightly yet were relatively similar to those acquired in our previous study,²³ except for the apical level of the upper left lateral incisor and the cervical level of the upper left canine of Patient 3, whose maxillary anterior bone density around the teeth was significantly reduced by $23.36 \pm 10.33\%$ (range of reduction = -44.13% to 9.40%) at T1 (Figure (Figure 3, 3, left column).

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The muscular dystrophies (MD) are a group of inherited genetic conditions that gradually cause the muscles to weaken, leading to an increasing level of disability. MD is a progressive condition, which means it gets worse over time.

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There are two basic types of vaccines. Their characteristics are different and determine how each type is used.

1. Live, attenuated, and
2. Inactivated.

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โภชนบำบัด หมายถึง การให้อาหารที่เหมาะสมกับโรคที่เป็นอยู่ และจัดให้ถูกหลักโภชนาการ

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Both photoreactions rac-B to rac-D and rac-C to rac-A are Hula-Twist reactions, a photoreaction in which the central double bond and one adjacent single bond rotate in the same step.^{23,69} However, the molecular setup of HTI 1 allows for two different Hula-Twist photoreactions for each rac-B to rac-D and rac-C to rac-A conversion, respectively as such coupled bond rotation can involve either of the two aryl substituents.

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Safety and Reactogenicity Assessments

Local reactions assessed included injection-site pain, tenderness, swelling, redness, and shoulder pain on the vaccination side. Systemic reactions assessed were fatigue, malaise, myalgia, headache, arthralgia, nausea, vomiting, diarrhea, fever, and chills.