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22nd GLOBAL ANNUAL ONCOLOGISTS MEETING

May 24-25, 2018 Osaka, Japan

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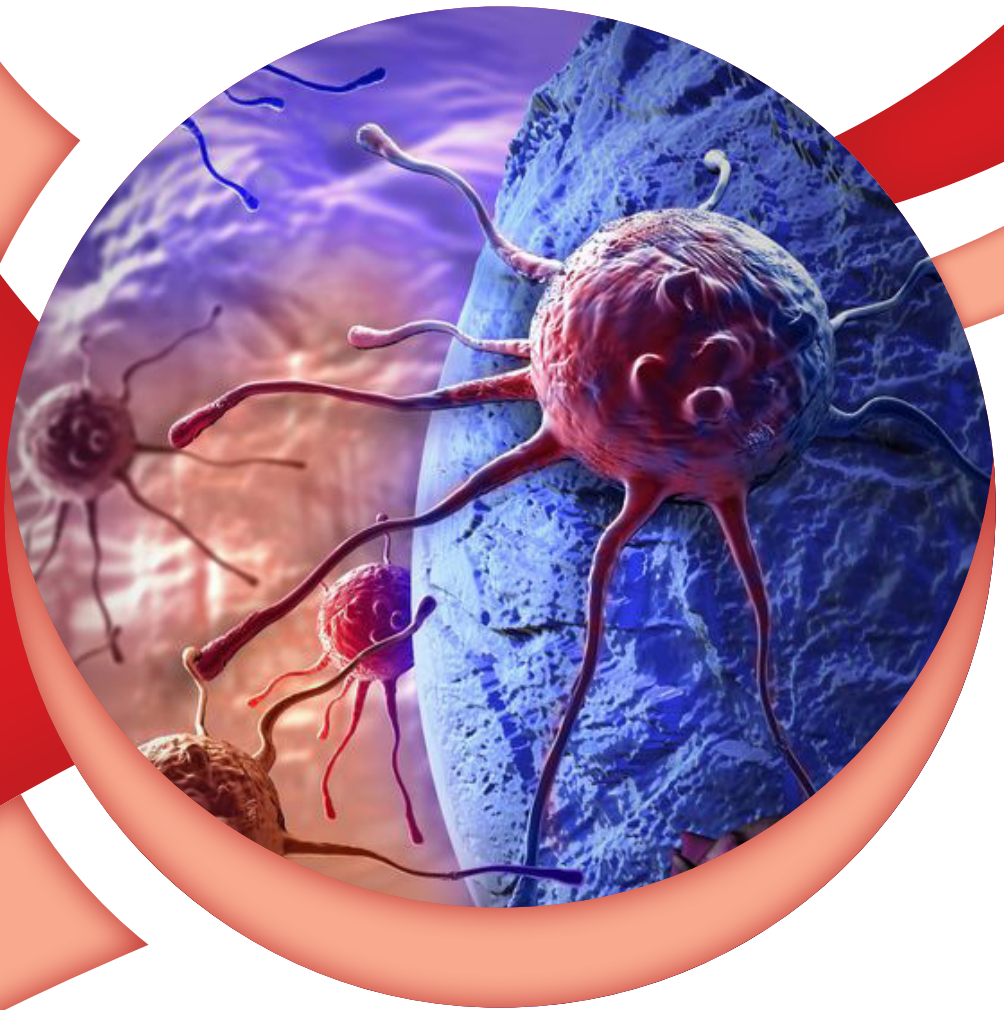
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ONCOLOGISTS 2018





22nd Global Annual Oncologists Meeting

May 24-25, 2018 Osaka, Japan

Keynote Forum (Day 1)

22nd GLOBAL ANNUAL ONCOLOGISTS MEETING

May 24-25, 2018 Osaka, Japan



Jacob Gopas

Ben-Gurion University of the Negev, Israel

Soroka University Medical Center, Israel

Cellular senescence in Hodgkin's lymphoma

Hodgkin's Lymphoma (HL) is a B cell originated malignancy of the immune system. Although the rate of cure is high, about 20-35% of patients relapse and about half of them eventually die of the disease or treatment-related late toxicities and secondary malignancies. Conceptually novel treatment strategies are thus needed, particularly for this category of patients. The malignant cells, called Hodgkin and Reed-Sternberg (HRS) cells, only make up 1-2% of the total tumor cellularity, the remaining mass comprising a mixed infiltrate population is thought to be recruited to the lymph node by HRS-driven pro-inflammatory signals. We propose that a sub-population of HRS cells, which we call herein large RS cells, have characteristics of senescent cells, and, thus produce large amounts of inflammatory mediators (the so-called Senescence-Associated Secretory Phenotype or SASP). Senescence is characterized by permanent cell cycle arrest and loss of proliferative capacity, despite continued viability and metabolic activity. We show that the senescence markers the cell cycle inhibitors p16INK4a and p21Cip1 are expressed in large RS cells in all HL biopsies examined. Moreover, the large RS cells are negative for Ki-67 staining, demonstrating that these cells have ceased to proliferate. We also show that large, 'RS-like' cells in a HL-derived line, L428, stained for the characteristic senescence marker β -galactosidase (β -gal). Oxidative stress and chemotherapy increased the proportion of β -gal positive large RS cells. Furthermore, we show that the large RS cells secrete high levels of cytokines. We suggest that these senescent RS cells may be responsible, at least in part, for creating a pro-inflammatory microenvironment, promoting HL pathogenesis, and mediating chemoresistance in relapsed disease. Understanding the pathways important for the establishment of senescence in HRS cells, as well gaining insight into targetable mechanisms for the eradication of these cells, will provide new therapeutic approaches for HL patients with recurrent or chemo-resistant disease.

Biography

Jacob Gopas has completed his BSc from Bar-Ilan University, Israel, PhD from Albert Einstein College of Medicine, USA and Post-doctorate from Ben-Gurion University. He is a Professor, Head of the Laboratory of the Institute of Oncology, Soroka University Medical Center, Israel and teaches cell and cancer biology. His research includes basic and clinical cancer biology, Hodgkin's lymphoma, and new plant compounds against inflammation, pathogens and cancer. He has published more than 90 articles together with Israeli, German, Indian and American scientists and physicians and holds several patents (founded by the Israel Science Foundation, Israel Ministry of Health, Israel Ministry of Science, Israel Cancer Association and NIH).

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Celestial T. Yap

National University of Singapore, Singapore

Multiple roles of the cytoskeletal protein, gelsolin, in gastrointestinal tumor cells that contribute to dissemination and tumor progression

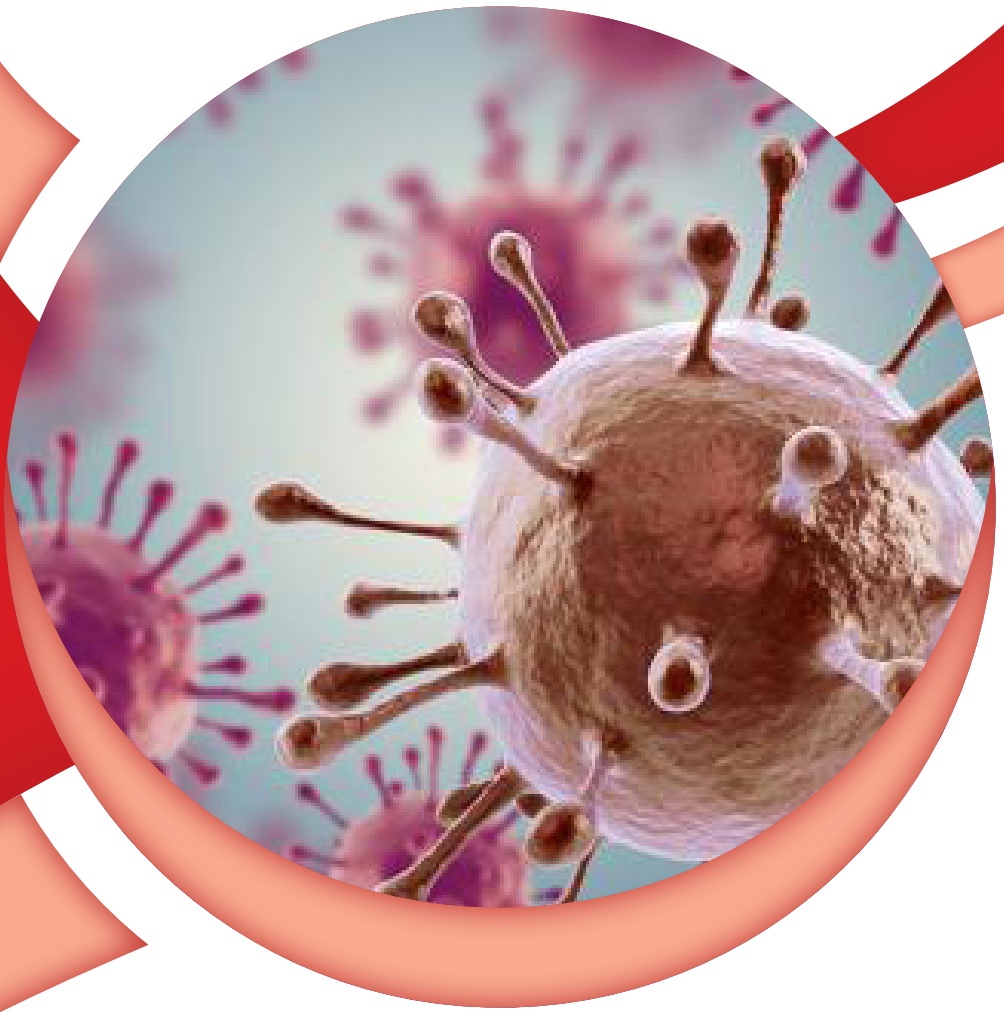
Gelsolin is an actin-binding protein which regulates the dynamics of the actin cytoskeleton and is involved in several pathological conditions including cancer. The roles of gelsolin in cancer are complex, there is evidence that it contributes to both tumor suppression as well as malignant progression. Studies suggest that gelsolin can act as a tumor suppressor, with decreased expression of gelsolin observed in cancers such as breast and lung cancers. On the other hand, high gelsolin expression has been correlated with aggressive tumors, such as with high grade urothelial and oral carcinomas, and lymphatic invasion in lung cancer. We identified gelsolin expression to be up-regulated in tumor tissues which exhibit disseminative behavior, such in lymph node metastases of intestinal-type gastric cancer, in primary tumors of diffuse gastric cancer and at the invasive edges of colon cancer metastases in the liver. We found that gelsolin can promote dissemination of gastrointestinal cancer cells by several mechanisms-gelsolin dysregulates the cellular redox milieu and promotes extracellular matrix degradation, leading to increased invasive activity of cancer cells. Gelsolin also interacts with the Hepatocyte Growth Factor (HGF)-cMET pathway and affects intercellular adhesion to promote cell scattering. In addition, gelsolin protects cancer cells from stress by activating autophagy. The multiple roles of gelsolin that contribute to cancer progression will be discussed.

Biography

Celestial T. Yap has obtained MBBS degree from the National University of Singapore. She is engaged in clinical practice and subsequently obtained a PhD in Biomedical Sciences at the University of Edinburgh, UK. She is the Physiology Program Director and the Integration Lead Educator at the Yong Loo Lin School of Medicine, NUS, overseeing undergraduate education in clinical sciences. She leads the cytoskeleton and tumor biology laboratory, which focuses on cytoskeletal derangements and signaling pathways that promote tumor invasion and resistance, as well as biomarkers for cancer detection.

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22nd Global Annual Oncologists Meeting

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Keynote Forum (Day 2)

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May 24-25, 2018 Osaka, Japan



Kazuko Tatsumura

Director, Gaia Holistic Health, USA

Onnetsu-Invisible Oncology

Onnetsu means comfortable heat. Dr. Kazuko Onnetsu Therapy invented by Dr. Kazuko Tatsumura Hillyer emits from a special ceramic; Precise 8-10 μ of vibration of Infrared Sun Ray; vibration of terahertz; and various degrees of heat. When Onnetsuki is slid over the skin, healthy areas are comfortable, but IF deep tissue is cold, unhealthy or degenerated, hot spot is detected by the temperature sensation reported from the patient. Dr. Kazuko Onnetsu Therapy is both a diagnostic and therapeutic. When this hot spot is effectively treated with Far-Infrared, Terahertz and Heat, Dr. Kazuko Onnetsu Therapy, the hot sensation subsides and the disease conditions improve. Dr. Kazuko's protocol must be followed. Dr. Kazuko Onnetsu Therapy is based on four historical and scientific facts: (1) NASA's finding regarding Far-Infrared vibration from sun light 8-10 μ only. Also, added is the specific terahertz vibration: Healing vibration. (2) Traditional Japanese concept of the significance of body temperature; raising cold temperature. (3) Immunology theory by Dr. Toru Abo, balancing autonomic nervous system to improve condition of white cells; raising immunity. (4) Promoting four flows of energy through acupuncture technique: Blood, body fluid, oxygen, Ki(Chi). Dr. Kazuko has taught her Onnetsu Therapy to MDs and health practitioners over the past decades all over the world are practicing it in the hospitals and clinics. Clinical trials have shown improvements on cases (including but not limited to) as arthritis, asthma, various cancers, diabetes, tuberculosis and various painful conditions.

Biography

Kazuko Tatsumura has graduated from Toho Academy of Music in Tokyo, as a Pianist and Composer, invited by the Boston Symphony; she came to the USA in 1961 as one of the first Japanese women. She has then received Master of Art from New York University and obtained her PhD in Philosophy in 1965. In 1967, she turned to an independent career and became the top International Classical and Cultural Impresario/Producer. Until 1992, she produced an average of 2,000 cultural events each year, traveling to more than 140 countries. She was presented with numerous honors for her work. She studied Oriental Traditional Medicine of Japan, Korea, Taiwan and China. In 2000, she received her PhD and OMD from the International Academy of Education in Tokyo. She has established the Oki-Do Holistic Health Center in 1994 in NY and in 2001 the GAIA Holistic Center at the wake of 9/11 tragedy, for body mind and spirit, aiming for the non-invasive natural healing methods based on the wisdom of the East. She has written numerous articles and several books to her credit.

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