Name	Surname	Abstract (copy your Abstract here)
Felix	Kaplan	Impact of formal caregivers' ethno-cultural background on maintaining the dignity and autonomy of patients with dementia Feiix Kaplan1, Miriam Ethel Bentwich1 The Azrieli Faculty of Medicine, Bar-Ilan University, Safed Campus, Safed, Israel1.
		Aim & Background: As life expectancy increases in Western societies, a key challenge faced by these societies is addressing elderly care, and particularly ensuring a high quality of care for patients with dementia (PWD). Pivotal concepts in bioethics that are directly related to ensuring high quality of care for PWD, especially in nursing homes, are autonomy and dignity. Although in the West, most formal caregivers are multicultural, there's still insufficient knowledge and understanding of how culture may influence caregivers' handling of the autonomy and dignity of PWD under their care.
		Methods: An empirical ethics study, utilizing a qualitative research method comprised of 58 non-participatory field observations and 20 semi-structured interviews with formal caregivers from three ethno-cultural groups (Sabras, Arabs and Russians) who work in three nursing homes in Israel. Additionally, 10 interviews were conducted with service staff members to gain (Inturber insights and deeper comprehension of the data. The data was analyzed via a combination of microanalysis and thematic content analysis, informed by two theoretical frameworks for the conceptualization of dignity and autonomy.
		Results & Conclusion: Russian caregivers were the most prominent in maintaining PWD's dignity and autonomy in their daily care compared to Sabras and Arabs, whereas Sabras and Arabs were more prominent in articulated perceptions of preserving PWD's dignity and autonomy. Ethno-cultural explanations and clarifications were given to the findings by the rich informants. Moreover, 11 new subthemes emerged in content analysis, thus enriching the existent conceptualizations of dignity and autonomy. This study is the first of its kind to focus on the real-time behaviors of multicultural formatic acregivers in the care of PWD, and is therefore, able to offer a more precise depiction of the actual application of dignity and autonomy regarding PWD, as well as the differences between behaviors and perceptions in the different cultural groups.
Gon	Carmi	Viruses adopt non-optimal codon usage to infect multiple hosts Gen Carmi*, Alessandro Gordnovski*, Sonnah Tagore*, Miana Frenkel-Morgenstern** The Azeli Faculty of Medicine, Bar-lian University, Henrietta Szold 8, Sałed *eual contribution ** corresponding author Introduction: The genetic code has redundancies. Many viruses introduce their tRNAs inside the host cells. We proposed that viruses introduce their own tRNAs preferentially for non-optimal codons in order to infect multiple hosts ther ational is that viruses with codon usage matched a particular host reduce their ability to infect multiple hosts ender therados: The rational is that viruses with codon usage matched a particular host reduce their ability to infect multiple hosts the codon usage tables were calculated for each virus/host. The mathematical model has been proposed to explain the non-optimal codon usage preferences for viruses during the host cell-cycle. The differential expression analysis by means of our experimental RNA-seq data (of herpes viruses) has been used to evaluate the viru algenes expression during the host cell-cycle. The differential expression analysis by means of our opprimate RNA-seq data (of herpes viruses) has been used to evaluate the viru algenes expression during the host cell-cycle. The differential expression analysis by means of our coptimal codon usage preferences of viruses and a number to host cells. We rever, we found that viruses use non-optimal codon usage preferences of viruses and a number to host cells. We note: cell-cycle phases. We proposed a novel mathematical model to explain the non-optimal codon usage preferences of viruses and a number to sci. cells. One-cwer, we found that viruses use no-optimal codon usage preferences of viruses and a number to sci. cells. One-cwer, we found that viruses use no-optimal codon usage preferences of viruses and a number to sci. cells. Noe-cwer, we found that viruses use no-optimal codon usage preferences of viruses and a sexperimental RNA-seq data that demonst
Elias	Saad	Complete blood count parameters can pedict severity of chronic obstructive pulmonary disease (COPD) exacerbation? Saad Elias 1,2, Barhoum Masad1,2, Asleh Mostafa1,2, Servadio Ela1 2, Assy Nimer1,2 Department of Medicine, Galiee Medical Center1 , Azrieli Faculty of Medicine, Bar-Ilan University2 Aim & Background: Increased (Red Blood Cell Distribution) RDW values have been reported to be related with underlying chronic inflammation. Increased inflammation in the lungs, as well as a systemic inflammatory response, is now a well-established factor in COPD. Our aim is to investigate the relationship of different complete blood count (CBC) parameters such as hemogloin, mean corpuscular volume (MCV), Mean platelet volume (MPV) or RDW with COPD exacerbation severity. Methods: In the present retrospective analysis, consecutive patients admitted with the diagnosis of "COPD Exacerbation" between 11/1/2012 and 31/12/2015 were evaluated. Results: Patients with MCV > 100L have significantly a higher Paco2 than patients with normal or bigh MPV (P=0.001). Patients with a higher Paco2 than patients with normal or bigh MPV (P=0.001). Patients with a higher Paco2 than patients with normal or bigh MPV (P=0.001). Patients with a higher Paco2 than patients with normal or bigh MPV (P=0.001). Patients with a higher Paco2 than patients with normal or bigh MPV (P=0.001). Patients with a higher Paco2 than patients with normal or bigh MPV (P=0.001). Patients with a higher Paco2 than patients with normal or bigh MPV (P=0.001). Patients with higher Robaltzation duration than patients with normal or life (P<0.001). Patients with a higher Paco2 than patients with normal or life MPV (P=0.001). Patients with a higher Paco2 than patients with normal or life MPV (P=0.001). Patients with a higher Robaltzation duration than patients with normal RDW (P<0.001). Patients with a higher Robaltzation duration than patients with normal RDW (P<0.001). Patients with a displication duration than patients with normal RDW (P<0.001). Patients with a displicati
Rajesh	Detroja	The comprehensive pedigree analysis to uncover biomarkers in complex diseases using liquid biopsy Rajesh Detroja (1), Vikrant Palande (1), Dorith Raviv Shay (1), Milana Frenkel-Morgenstern (1)* (1) The Azrieli Faculty of Medicine, Bar-Ilan University, Henrietta Szold, 8, Safed, Israel. *milana.morgenstern@biu.ac.il Health care professionals have known for the substantial amount of time that complex and chronic diseases run in families. 'Complex Diseases' can be defined as a medical condition such as heart diseases, cancers, asthma, arthritis, and diabetes that do not have a single genetic cause-they are likely associated with the effects of multiple genes and conditions (polygenic). Although complex diseases often cluster in families but they do not have a clear- cut pattern of inheritance. This makes it difficult to determine a probability of complex diseases to be roccurring in certain families. Therefore, the identification of personalized molecular biomarkers through the genetic analysis of technique uses circulating cell-free DNA (cIDNA) fragments that are released into the blood stream. Our goal is to perform next-generation sequencing (NGS) of white blood cells (WEC) and CDNA of the families with complex disease to make in-silico pedigree analysis that are released into the blood stream. Our goal is to perform next-generation sequencing (NGS) of white blood cells (WEC) and CDNA of the families with complex
Baruh	Polis	to reveal novel bomarkers, which could be applied for the future personalized diagnostics and treatment using liquid biopsy technique. Norvaline, a novel Alzheimer's disease-modifying agent. Abelianer's disease (AD) is an irredeemable chronic neurodegenerative disorder and the predominant cause of dementia. The disease progression is associated with amyloid plaques' deposition and neurofbrillary tangles' formation in the brain, yet clinical dementia is the end and culminating stage of the enduring pathology. Recent empirical evidence points to severe characteristic metabolic dysfunction as a leading cause and hailmark of AD that is apparent decades prior to the disease manifestation. Statu-of-the-art metabolic most that complex tragine and brainchod-chain amino acids (BCOAAS) metabolism disturbances accompany AD. Lower plasma valine levels are associated with accelerated cognitive decline, and, conversely, an increase in valine concentration is associated with a significantly reduced risk of AD. A set of immunohistochemistry, proteomics, and transcriptomics assays was applied to evaluate the neuroprotective effect of the substance and identify the biological pathways activated by the treatment. The results verify that norvaline reverses the cognitive decline in the AD mice. The neuroprotective effect is associated with significantly reduced hippocampal arginase levels and diminished amyloidosis. Additorally, we disclose the treatment- moderates the rate of Tau protein phosphorytation. allevitaes microposis. Additorally, we disclose the treatment- secores in the hippocampal expression levels of synaptic plasticity-related proteins, expression levels of cytosolic branched-chain amino acid aminotransferase, and an activation of several, involved in cell substance possesses various modes of acid, which in improve the synaptic plasticity-related proteins, the data suggess that novaline is a potent arginase inhibitor and modulator of glutamate metabolism. The results verify that novaline is a potent argin
Noa	Abrahami	Do Young Women with Unexplained Infertility Demonstrate Manifestations of Decreased Ovarian Reserve? Noa Abrahami1, 2, Ido Izhaki3, Johnny S. Younis1, 2 The Azriel Faculty of Medicine Inh. Department of Obstetrics and Gynecology, Baruch-Padeh Medical Center, Poriya, Israel. 2Reproductive Medicine Unit, Department of Obstetrics and Gynecology, Baruch-Padeh Medical Center, Poriya, Israel. 3Department of Evulutionary and Environmental Biology. University of Hala, Halla, Israel. Am & Background: Poor ovarian response (POR) and fertility treatments is considered an early sign of ovarian aging, a crucial factor affecting pregnancy achievement and maintenance. Nevertheless, POR was properly explicated only in 2011 with the publication of the Bolgon achieria. Although designed to devise a uniform definition, they did not, however, outlined risk factors for POR, rendering its use precarious in some populations, especially younger infertile women. This study aims to evaluate whether unexplained infertility at a young age demonstrates manifestations of decreased ovarian reserve. Methods: A case-control study carried out between April 2015 and November 2016. Power analysis was a priori conducted to determine statistical significance. The study group comprised women age ≤37 years diagnosed with unexplaned infertility, and the control group (7.0.4.5 vs. 10.44.1 follicles, P-0.001). Basal serum FSH was higher in the study compared with controls (8.4.5.5 vs. 6.4.1.7 U/LI, P=0.015), while antral folicic control KPC) was in the study compared with the control group (7.0.4.5 vs. 10.44.1 follicles, P-0.001). Basal serum FSH was higher in the study compared with controls (8.4.5.5 vs. 6.4.1.7 U/LI, P=0.015), while antral folicic control KPC, was a quantitative, enter than a qualificative, related infertility had infertor ovarian reserve results set against controls (8.4.5.5 vs. 6.4.1.7 U/LI, P=0.015), while antral folicic control KPC, was aquantitative, enter than a qualificative, related infertility as not significantl

Daniel	Baumel	The function of iASPP in Cardiomycopties Daniel Baumel, Yithah Barsheshet, and Orly Avni Faculty of Medicine, Bar-Ilan University Arab. Christian-infants, ages 4-30 months from four families were diagnosed with DCM associated with mild skin, teeten and hair abnormalities, All passed away before age 3. A homocrypous sequence variation in PPP1R13. Encoding the IASPP protein, was dientified in three infants, and heterozygous in the mother of the other two. The patient's filtrobalests and PPP1R13Encoded dwon human fibrobalests presented in bligher expression levels of pro- inflammatory cytokine genes in response to Lipopolysaccharide (LPS), as well as pp1r13!-Innocked dwom munice acrdiomycoptes and hearts of pp1r13!-deficient mice. The hypersensitivity to LPS was NF-xB-dependent, and NF- sh-ducket beinding activity to promothers of pro-inflammatory cytokine genes was elevated in patient's fibrobalests. RNA-sequence of failure to regulate transcriptional pathways necessary for tuning cardiac inflammatory cytokine genes was elevated in patient's fibrobalests. RNA-sequence of failure to regulate transcriptional pathways necessary for tuning cardiac inflammatory cytokine genes was elevated in patient's fibrobalests. RNA-sequence of failure to regulate transcriptional pathways necessary for tuning cardiac inflammatory cytokine genes was elevated in patient's fibrobalests. RNA-sequence of failure to regulate transcriptional pathways necessary for tuning cardiac intershold response to DCM development in pp1r13-deficient (Wa3) mice revealed the crucial rise in ASPP in dampening cardiac inflammatory cytokine genes was elevated in patient's a consequence of failure to regulate transcriptional pathways necessary for tuning cardiac threshold response to common inflammatory stressors. However, the mechanisms underlying the function of IASPP in regulating IN-r.& Bactivity and cardiac response are unknown. Methods: Heat TCS. Advisor TCS-464-2021 Exponsition inflammatory cytokine genes was elual translocations of NF-xB. Mobile p
Dr. Chen	Ryder	The relations between abnormal sensory processing patterns and ADHD subtypes compared with a healthy control group. Chen Hanna Ryder, Kari Ramsted-Ohana, Darian Ryder, Karin Wiegler-Beiruti, Naaem Simaan & Radi Shahien Abstract Background: Sensory Processing Disorder (SPD), an early childhood developmental disorder, is highly co-morbid with ADHD and shares similar prevalence (5%–16%), yet receives much less attention, while features difficulties in detecting, modulating, interpreting and organizing sensory stimuli to a degree interfraing with day function. Since SPD persists into adulthood yet the DSM-5 does not recognize it as such, many ADHD patients suffering from this detecting, modulating, interpreting and organizing sensory stimuli to a degree interfraing with day function. Since SPD persists into adulthood yet the DSM-5 does not recognize it as such, many ADHD patients suffering throm this co-occurring sensory processing symptoms in adulthood fail to undergo an SPD diagnois and neceive respective treatment. The study in question aimed to evaluate the co-occurrence of SPD's different modalities among the different subtypes of ADHD in the adult population and to compare it with a healthy control group. Methods: A total of 60 individuals (in-e0) between 18 and 45 years of age, divided into two different groups: the study group (ADHD or other Neurological or Psynitatine dagnosis. The participants completed questionnaires regarding ADHD in adulthood and SPD symptoms and subtypes. The results of sensory profile in different subtypes of ADHD or were statistically analyzed and compared with control group. Results: individuals sufficing from combined type ADHD exhibited more frequent and externer reactions (both hyper- and hypo sensitivity) to sensory stimuli compared to individuals with intentive type ADHD and healthy controls. Conclusion: The current study results indicate that there ar differences in sensory modulation among different subtypes of ADHD in adulthood. The here in results suggest a shif
Keren	Aviel-Shekler	Effects of gestational diabetes on autism-related behavior and gene expression in the brain of offspring Aviel Shekler K. Getselter D. Lukic I. Oron O. Davis L. Malka A. Piran R. Elliott E. Bar-Ilan University, Faculty of Medicine in the Gallee, Safed, Israel Background: Autism spectrum disorder (ASD) is associated with a variety of prenatal, perinatal and postnatal eliologies, and its current prevalence is above 1% of the children born in this decade. ASD is a neurodevelopmental and behavioral disorder which is defined by deficits in social interaction, low communication and repetitive behavior. Recent studies have shown that there is an association between metabolic conditions (MCS) during pregnarcy (desity, gestational diabetes (GDM)) and ASD. There is growing evidence demonstrating affects of GDM on neurodevelopmental behavior diabetes famale. CF78L B mice and to examine the effects on the offspring. We aim to develop a mouse model of GDM by using pregnant streptoxtocin-induced diabetes famale. CF78L B mice and to examine the effects on the offspring. We aim to develop a mouse model of GDM by using pregnant streptoxtocin-induced diabetes famale. CF78L B mice and to examine the effects on the offspring. We aim to develop a mouse model of GDM by using pregnant streptoxtocin-induced diabetes famale. In addition, the male is mice buried more marbles. In the context and cue test of fear conditioning, male offspring of GDM mice demonstrated more freezing time compared to the control group, suggesting that they had a better stress-related memory. Most of the behavioral changes were observed in males which parafells to higher prevension in the prefrontal cortex and the stratum of the mice. Conclusion: From our results, we can suggest that the GDM offspring demonstrated more autistic like behavior in form of more repetitive behavior and stronger learning after stressful experience. These studies may advance our understanding of the connection between matemal metabolic conditions and neurodevelopmental
liron	davis	A role for neuronal chromatin organizer CTCF in parvalbumin GABAergic neurons Liron Davis, Evan Elliott. Bar-lan University, Faculty of Medicine, Safed, Israel CTCF plays an essential role in 3D genome organization and gene expression and has recently been implicated as a major contributor in neural development. Genetic studies reveal that mutations in CTCF are associated with intellectual disability and auslite behavior. Room tstudies in mice models have started to show the importance of CTCF in neuronal morphology and on behavior. Nonetheless, there is little knowledge about the roles of CTCF in CNS in general and in inhibitory neurons in particular. In order to determine the role of CTCF in a subclass of inhibitory neurons, we induced a CTCF eKO in parvalbumin neurons by using the PV-cre /flowed CTCF mice. Adult mice display motor impairments in open field test and elevated public arease test, relative to wild type mices. The display fields: Moria display fields: Moria in indication in development RNA seg on PV- nuclous isolated from these mice andels in PV neurons. Furthermore, to understand how CTCF depletion affects gene expression in PV neurons, we performed RNA- seg on PV- nuclous isolated from these neurology analysis revealed that ablation of CTCF leads to down-rogulation of genes involved in regulation of nervous system development and synaptic signaling, and further identified particular genes involved GABAergic neuron differentiation. Additional research will focus on Unther understand webus and changes in neuronal chromatin structure that underlie this phenotype. Therefore, CTCF-mediated chromatin organization may play an important role in development of locomotion and anxiety impairments.
Vikrant	Palande	Introduction Gliomas are the most frequent brain tumors, making up about 30% of all brain and central nervous system tumors, and 80% of all malignant brain tumors. Existing standard diagnostic technique for glioma tumor includes tissue biopsy, which is a highly invasive and hence a risky technique for the patient's survival. 'Liquid biopsy' is a new and recently developed non-invasive cancer diagnostic technique, which includes use of circulating cell-free DNA (cIDNA) fragments for tracing tumor markers. CIDNA fragments are one of those molecular bits that are released into the bloodstream after rapid apolopions or necrosis of the tumor cells in the cancer patients. Our goal is to do comprehensive study between distinct types of glioma cancer tumors and cIDNA of the respective patients, to taciditate the scope of cIDNA in fluid biopsy technique for glioma diagnosis. Methods We collected 8 different glioma patient's tumor tissue and plasma samples and then isolated tumor DNA from glioma tumor tissue and circulating cell-free DNA(cIDNA) from the respective glioma patient's DNA and cIDNA then deeply sequenced on illumina HiSeq 2500 and then NGS data was analyzed to find out single nucleotide variants (SNVs) as well as structural variants on both cIDNA and tumor gDNA. Results We have successfully detected glioma specific mutations such as IDH1, IDH2, PDGFRA, NOTCH1, PIK3R1 and TPS3, from cIDNA isolated from the plasma of glioma patients and could relate this mutations to the different tumor grades of glioma. We are also studying the dynamics of these mutations in the progness for montoring the glioma treatment wontoring. Discussion This study may help in developing liquid bloopsy technique for glioma tumor diagnosis and in its prognesis for montoring the glioma treatment by non-invasive approach, and will eventually help physicians to decide the right treatment on approving the white howelaging indered state the montoring.

		A genomic duplication of 83 Kbp is associated with the Mammary-Digital-Nail (MDN) syndrome Ayalia Fadida 1, 2, Limor Kalfort and Tzipora C Falik-Zaccait, 2 Tinstitute of human genetics. The Galike Medical Center, Nahariya. Zhe Azrieli Faculty of Medicine, Bar Ilan University, Safed.
Ayalla	Fedida	Am & Background Mammary-digital-nail syndrome (MDN) is a unique phenotypic association consisting of anonychia onychodystrophy with hypoplasia or absence of distal phalanges in males and females, accompanied by juvenile hypertrophy of the breast in affected females. Linkage studies and haplotype analysis defined the locus for the phenotype within a 4.3 Mb interval on chromosome 22q12.3-13.1. We aim to reveal the causative genetic variant, underlying the MDN phenotype.
		Methods Whole genome sequencing (WGS) of two affected and two healthy family members followed by relative quantitative PCR (qPCR) and segregation analysis for validation of the WGS results within the extended pedigree. Reverse transcriptase (RT)-qPCR analysis was used for relative quantification of the transcript abundance of the open reading frames (ORFs) within the genomic variant. Finally, RNA-sequencing was performed for the characterization of the whole transcriptome in breast and skin biopsies.
		Results. WGS revealed a novel heterozygous genomic duplication of 83 Kbp, within the linked interval on chromosome 22 in affected individuals. This duplication contains two ORFs: one encoding the potassium channel protein KCNJ4 and the other encoding an inositol lipid phosphatase pseudogene (LOC400827). Relative qPCR confirmed an autosomal dominant segregation pattern within the family. RT-qPCR analysis revealed a significant increase in the transcript level of KCNJ4 in skin biopsies derived from affected individuals and in breast biopsies of affected females, versus healthy controls. Preliminary results of the RNA sequencing analysis revealed that out of 22 differentially expressed genes 7 significant dycom regulated genes belongs to the peroxisome profilerator-activated receptors signaling pathway within mediates the physiological actions of flatty acid; (RAS) and FA-derived molecules. How this changes in gene expression leads to the MDN phenotype is yet to be determined. These findings may shed light on a possibly novel signaling pathway affecting the organogenesis of limbs and mammary glands in humans.
		מס יספון בענודה: 1949/94-194 בעבודה: 1948/97 בינתבר זה 1947 מעמד אקדמי של החוקר המציג פוסט-דוקטורנטית
Iryna	Khrystoforova	Aim & Background: Osteoporosis and sarcopenia are comorbid wide-spread age-related diseases which affects human population tremendously. In human organism after 26 years of age the musculoskeletal system starts to undergo age-related changes. Genome-Wide Association study (GWAS) reveals new candidate genes associated with low bone mineral density (BMD) and complex diseases, such as osteoporosis and sarcopenia. Validation of the role of novel musculoskeletal arguitators in animal model. Therefore, the goal of our research is to find novel genes associated with musculoskeletal diseases, based on human GWAS data, and to further validate them in a zabrafish model. Nethods: We examined the expression patterns of selected genes datastis, lam2(20a, lam12(ba, lam2), lag12(a, witA, wita and rseft) by in-situ hybridization of specific RNA-probe to zabrafish both in intact and in regenerated 4 dpa (4 days post amputation) firs. We performed the quantitative expression farmers disader them in a zabrafish model, sub and strengt bybriding stable mutant lines for further functional characterization ResultaSCunclusions: The adamts3, fubp3, jag1a, witA, awa disader bybriding therent tissues by qPCR. Based on expression afferent fissues revealed the significant expression in muscles for fam2(10aa, fma2(10ab, lum2(2ab, cmax)) was observed for wise. Muscles and hones and bones are deviced to determinants. Novel candidate genes which expressed in muscle tissue are also relevant for further research. Therefore, we conclude to focus on adamts13, fam2(10ab, hubp3 as relevant candidate genes in both bones tasks.
		Implementing an Intervention Program in a Hospital Setting to reduce ER Visits for Unintentional Child Injuries
		Department of Population Health, Azrieli Faculty of Medicine, Bar-Ilan University, Zfat 2 Center of Health and the Social Sciences, University of Chicago 3 Ziv Medical Center 72tt
Ligat	Daudi	Background & Am: Unitentional injuries (UI) are a leading cause of child morbidity and mortality workdwide, accounting for 202.000 of ER visits in Israel. One common strategy for reducing UI is home-visitation, conducted mainly by community-based programs. However, interventions' effectiveness is mixed. This may be because studies have not examined the implementation of SHABY, a home-visitation program in Ziv Medical Center, for reducing UI. High-risk families for recurrent UI in children (0-5 years) will be recruited upon ER arrival and will neckvie two home visits focusing on home-safety counseling over four morbins. Wethods: Evaluation is guided by the Consolidated Framework of Implementation. Evaluation Research assessing the effect of program design, individuals involved and organizational setting on attainment of outcomes. Pilot phase included observations and interviews to assess facilitators and barriers pre-implementation. Evaluation of SHABY uses a mixed methods design, individuals involved and organizational setting on attainment of outcomes. Pilot phase included observations and interviews to assess facilitators and barriers pre-implementation. Evaluation of SHABY uses a mixed methods design, individuals involved and organizational setting on attainment of hospital record review; qualitative data involving interviews with hospital and SHABY staff. Preliminary Results: Pre-implementation assessment Identified complexities in the intervention's design. Recruitment by ER nurses was found to be difficult and burdensome and home visitation not possible for them to conduct. Hence, we revised the intervention to include designated recruitment nurses and trained nursing students to conduct home visitation. Analysis of the organizational setting identified that while frontine hospital stakeholders were passionate and intervention to include designated meruitment of stakeholders were passionate and interested in implementiation in preventative program likes SHABY, yet implementation in a new setting is a diff
		An abstract for a lecture Ligat Daudi, Ph.D. candidate Phone no. 050-755-4025 F-mail address: juat.Daudi @gmail.com
		Kaposi's Sarcoma Associated Herpesvirus LANA Modulates the Stability of the E3 Ubiquitin Ligase RLIM
		Daniella Lee Casper Laboratory in Viral Oncology, Azrieli Faculty of Medicine, Bar-Ilan University, Safed, Israel. Corresponding Author: meir shamay@biu.ac.il
HAGAR	TADMOR	The Kaposi's sarcoma associated herpesvirus (KSHV) encoded LANA protein functions in latently infected cells as an essential participant in KSHV genome replication and as a driver of dysregulated cell growth. The expression of many cellular genes is modulated in the presence of LANA. In a previous study, we have identified LANA interacting protein is using a protein array screen. Here, we explore the effect of LANA on the stability and activity of RLIM (RING-finger LIM) cannot interacting protein, encoded by the RNF12 gene) a nove LANA interacting protein identified in that protein screen. Here, we explore the effect of LANA on the stability and activity of RLIM (RING-finger LIM) cannot interacting protein, encoded by the RNF12 gene) a nove LANA interacting protein identified in that protein screen. Here, we explore the effect of LANA on the stability and activity of RLIM (RING-finger LIM) can be stability and activity of RLIM (RING-final activity of RLIM) cancel activity of RLIM cancel activity of RLIM effect and the stab to the buby duration on a degradation of several transcription regulators, such as LMO2, LIMO4, LHX2, LHX3, LDB1 and the telomeric protein TRF1. Expression of LNAN leads to down-regulation of RLIM protein levels. This LANA-mediated RLIM degradation is blocked in the presence of the presence of the presence of MCS12 to prevent RLIM degradation. A RING finger mutant RLIM (HH 590, 593 EE) is resistant to LANA mediated degradation, suggesting that LANA and tudiw cubultination. Interestingly, we find that LANA enhance the degradation of some RLIM substrates is such as the substrate is in advisoriated by LHX3 and TRF1. We also show that transcription regulator by RLIM substrates is modulated by LANA. RLIM substrates are assembled into multi-protein transcription regulator complexes that regulate the expression of many cellular genes. Therefore, our study identified another way KSHV can modulate cellular gene expression.
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		Identification of Acute Coronary Syndrome associated miRNA using an unbiased sequencing approach Oloa Volodko1.2. Natalia Volinskv1. Inbar Ben-2v1.2. Iddo Magen3. Diab Ghanimb. Fabio Kuzniecb. Nufar Margalit1. Nofar Asulin1.2 and Offer Amir1.2
	Volodko	Cardiovascular Department and Research Center of Baruch Padeh Medical Center, Poria, Tiberias, Israel1. The Azněl Faculty of Medicine, Bar-lian University, Safed, Israel2. Department of Medicular Genetics, Weizmann Institute of Science, Rehovot, Israel3.
Olga		Abstract Acute Coronary Syndrome (ACS) is a medical condition induced by full or partial blockage of coronary artery(s) and without appropriate treatment it leads to permanent heart damage and heart failure. ACS can be subdivided into several types, whereas the most severe type is associated with ST- segment elevation in electrocardiogram, ST-elevation myocardial infrarction (STEM), and requires immediate medical intervention. MicroRNA (miRNA) are small non-oding RNA molecules of about 22 nucleotides. They mediate regulation of gene expression and are involved in different pathophysiological conditions, including cardiovascular diseases. Our research is aimed to determine differentially expressed miRNA in the serum of STEMI patients, compared with individuals having normal coronary arteries or with chronic arteries diseases. Blood samples are collected from the study participants twice during the cardiac catheterization procedure: irom a peripheral blood vessel and from a coronary artery proximal to the affected area. miRNA will be extracted from blood serum and further detected using the New Generation Sequencing. This is an unbiased approach enabling detection of multiple miRNA molecules, including miRNA that were not previously associated with acadiovascular diseases.
		Currently, unerest products or safetypes preparation are compared or enable optimilar experimental periormance and data adjustion. This study will periodicality identify differences between miRNA expressed in serum of STEMI patients compared to healthy individuals or CAD patients, leading to identification of biomarkers for early diagnosis and better understanding of the ACS development mechanisms.
		אסט דו איז אסטאסטרסט איז אסטאסטרסט איז אסטאסטערע איז אסטערערט איז אסטערערט איז אסטערערט איז אסטערערט איז אסטערע געעד אקדמי של החוקר המציג סטודנטית למחקר.
		LEARNING SOCIAL DETERMINANTS OF HEALTH (SDH) THROUGH AN EXPERIENCE-BASED HOME VISITING COURSE IN THE CLINICAL YEARS
דורון	שגיא	Introduction in the structure consensus that medical scnoots nave a dury to impart to students the completences required for facking social determinants of health (SUH). Such educational programs are usually scheduled in the pre- conducted with patients whom students recruit while in hospital. Methods - 160 citoral years tudents working in pairs visited 177 patients living in disadvantaged circumstances in Israel. Their home-visit reports were analyzed employing mixed methodology. A content analysis, using the theoretical framework of biopsychosocial theory, was conducted to classify the topics and concepts raised by students. Reports were compared quantitatively by richness of report (number of items), gender and year of study. Results: Fifteen taxonomy items were identified. Social support and patients medical conditions were the most prevalent issues followed by personal/emotional related issues; community-related tems were the least prevalent. Richer reports were more balanced and contained significantly more critical thinking. Women and mixed couples provided richer reports. Content analysis demonstrated students understanding of the relation between SDH and patient health and well-being, the challenges and barriers patients face in the community after discharge from hospital and a thome enhanced awareness of SDH. Students teamed to view the patients. Conclusions- Meeting patients below a thome shared awareness of SDH. Students teamed to view the patient comprehensively, and to understand the various factors affecting their health. Students, who essentially had sole responsibility for the home-visit, successfully integrated their skills to take a difference to patient care. The ETGAR experience provided a means for effective learning about the sort of social determinants.

	Structure-function studies of Glycoprotein N (GN) from Tomato spotted will orthotospovirus (TSWV)
	Yoav Bahat and Moshe Dessau The Azrieli Faculty of Medicine, Bar-Ilan University, Safed, Israel.
	Am & Background: The Tospoviridae family is a member of the Bunyavirales order, which is the largest known enveloped RNA virus order with incredible diversity in structure, host range, vectors and tissue tropism. Tomato spotted wilt orthotospovirus (TSWV) from the Tospoviridae family is a thinjs transmitted virus that infects large number of crops causing global heavy economic burden. Tospoviruses have a lipid-bilayer membrane envelope that protects their tri-partie RNA (-) single-stranded genome. In contrace to mammalian pathogens from the Bunyavirales order, Tospoviruses volved lacking the race-of-arms against an adaptive immune system therefore they might adapt different evolutionary path to perfect their entry into their host-cell. The two envelope glycostraties, termed GN and GC, form the envelope system threefore they might adapt different heterodimers, however no experimental evidence exist for neither tospovirus glycoproteins not for their craganization, eligomeric state and biochemical function of TSWV GN.
bahat	Methods: We expressed TSWV GN, purified it to homogeneity using chromatographic methods and subsequently crystallized it. Using X-ray crystallography, we determined the atomic resolution structure of TSWV GN. With GN structure in hand, we will use structural bioinformatics with structure-based mutagenesis in various biochemical assays to reveal the biological function and relevance of our crystal structure.
	Results & Conclusion: We successfully purified, crystallized and determined the structure of the TSWV GN. We obtained either diamond or plate shape crystals which diffract to ~3.4 Å and ~2.8 Å respectively. GN crystal structure reveals a novel protein fold that was not previously reported. The crystal structures reveal two potential dimerization interfaces for TSWV GN; A di-sulfide dependent interface, and a non-covalent interface that is responsible for the fold stability of GN.
	מס' נייד: 6178966 - 2020 2072-264964 - 2020 געד אקדמי של החוקר המציג: סטודנט מחקר מעמד אקדמי של החוקר המציג: סטודנט מחקר
	CRISPR TO GET THERE: A NUCLEAR FACTORS RECRUITMENT TEST BY THE KAPOSI'S SARCOMA ASSOCIATED HERPESVIRUS ENCODED LANA Ido Lavi, Ola Orgil, Nir Avital, Michael Talalai and Meir Shamay Faculty of Medicine in the Galilee, Bar-Ilan University, Safed, Israel
Lavi	Kaposi's sarcoma associated herpesvirus (KSHV, HHV-8) is the etiological agent of Kaposi's sarcoma (KS), and is tightly associated with primary effusion lymphoma (PEL) and multicentric Castleman's disease (MCD). KSHV is a member of the gamma-herpesvirus family and can establish life-long latert infection in human B lymphocytes and endothelial cells. The latency-associated nuclear antigen (LANA) is among the few KSHV encoded genes during latert infection in human B lymphocytes and endothelial cells. The latency-associated nuclear antigen (LANA) is among the few KSHV encoded genes during latert. Infection is trotleris, among the few KSHV morehade 0 host proteins, among the few KSHV encoded genes during later. Infection is trutlerist and carbot certains as used to a sociated with more than 60 host proteins among them transcription activators and co-activators, as well as transcription activators and co-activators, as well as transcription activators and co-activators, as used as transcription activations, and co-activators, as used as transcription activations and co-activators, as used as transcription activations and co-activativations and co-activators, as used as transcription activations and co-activativations and co-activativations and co-activativativativativativativativativativa
Bouz	Structural and Evolutional investigation of Phenuiviridae Membrane Fusion Proteins. Hossin Bouzt, Joel Atterf, Moshe A. Dessau1 The Azreili Faculty of Medicine, Bar-lian University, Safed, Israel The evolution of viruses is mainly influenced by environmental pressures resulting from growing niches of vector transmission, climate, vector and/or host availability, and their immune response. Little is known about the structural basis of the evolutionary processes that cause virus strains restricted to insects or animals to change its host range and infect humans. The entry of the enveloped viruses into their host cells involves receptor binding, followed by internalization and the unceating of the virus from its lipid envelope, known as membrane fusion. Subsequently, the viral genome is delivered to the cyclopism of the host cells involves receptor binding, followed by internalization and the unceating of the virus from its lipid envelope, known as membrane fusion. Subsequently, the viral genome is delivered to the cyclopism of the host cell binding exploration and assembly of new virins. The mechanistic differences in these steps between human-infecting viruses to insect-restricted viruses will unravel new aspects of the machanisms of the virus host-range selection. BADU Virus (BADUV) is a neglitive serse, single-stranded RNA virus, divided into three segments. The genome and the proteins surrounding it are contained in a lipid envelope in which the two envelope dyccorretins. Gen and Gc, are anchored the virus head the DAUV is an legative serse, single-stranded RNA virus, divided into the process of the virus oell entry. In contrast to amay closely related viruses from the Phenuivityda genoty virus. Moreover, recent work shows that BADUV is unable to reglicate in cultured ammanian and avia cells. We will investigate the structural differences between the BADUV envelope proteins and those of the pathogenic viruses of the same family, in order to understand the mechanistic differences of their entry to the host cel
	BADU Virus, Envelope Glycoproteins, X-ray crystallography. Contact Information Hossin Bouz M.S.C Student, The laboratory of Structural Biology of Infected Deseases Moshe Dessau PhD. Azriel faculty of Medicine in the Galilee, Bar-Ilan University, 8 Henrietta Szold St. Safed, 1311502, Israel. Tei-te7254-3985441 E-mait: hossin.bouz@live.biu.ac.il Office: B104
Michelis	Persistent complement activation is provoked by IgG-aggregates in a sub-population of Chronic Lymphocytic Leukemia patients Regina Michelis1, Tamar Tadmor2,3, Masad Barhoum4,5, Mona Shehadeh6, The Israeli CLL Study Group and Andrei Braester4,5
	Institute of Medical Assessment, Salares Assessment Sazaria Facility of Medicine, Barlina Lindon Medical Center, Nataria, Israel, Sazaria Facility and Center, Nataria, Israel, Sazaria Facility and Lindon Medical Center, Nataria, Israel, Sazaria Facility and Lindon Network Center, Nataria, Israel, Sazaria Facility and Lindon Network Center, Nataria, Israel, Sazaria Facility and Lindon Network Center, Nataria, Israel, Sazaria Center, Nataria, Israel, Sazaria Facility and Lindon Network Center, Nataria, Israel, Sazaria Facility and Lindon Network Center, Nataria, Israel, Sazaria Center, Nataria, Israel, Sazaria Facility and Lindon Network Center, Nataria, Israel, Sazaria Facility and Lindon Network Center, Nataria, Israel, Sazaria Facility and Lindon Network Center, Nataria, Israel, Sazaria Facility, Recent Lindon Network Network Center, Nataria, Israel, Sazaria Facility and Lindon Network Network Center, Nataria, Israel, Sazaria Facility and Lindon Network Center, Nataria, Israel, Sazaria Facility and Lindon Network Network Center, Nataria, Israel, Sazaria Facility and Lindon Network Netw
	pathway activity. C activation by HMW fraction from patients with abnormal CS was significantly higher compared to all other fractions. The data indicated that IgC-aggregates, and not IgM, are the HMW C activating factor. In some CLL patients' serum, IgC-aggregates constantly trigger CP activation, resulting in release of activation products, such as CSa, and formation of Ig-CSa complex. Another result is CP evaluation and the intality to exert activity that is comparable to normal subjects. The data provides a potential prognostic tool that may help in identifying a sub-group of CLL patients with impaired CP activity, and are likely to be less responsive to immunotherapy. Description and the IgB comparable to normal subjects. The data provides a potential prognostic tool that may help in identifying a sub-group of CLL patients with impaired CP activity, and are likely to be less responsive to immunotherapy.
Brant	Dual uncon of Poycomo group proteins in 1-hepert (II) cells Boris Brant, Yithki Barshsenk, Moran Titebaum, and Oriy Avni. The Azrilé Faculty of Medicine, Bar-lian University, Safed. Am & Background: The immune system distinguishes between self and non-self but also between different types of non-self, such as bacteria, viruses and worms. Th cells have a fundamental role in that challenge. Following antigen recognition, naive Th cells can differentiate toward one of the several effector lineage, each expressing a distinctive transcriptional profile of cytokines and other lineage specific genes, which eventually instruct the strategy of the immune recognition, naive Th cells can differentiate toward one of the several effector lineage, each expressing a distinctive transcriptional profile of cytokines and other lineage specific genes, which eventually instruct the strategy of the immune resognes. In our line bus, we are interestical in understanding the mechanisms underlying differentiation and stimulation of these cells. Wy work is especially focused on exploring in a genome wide manner the binding activity of - and the epigenetic regulation by the polycomb group (PcC) proteins such as the Eh2'n differentiated Th To cells. More specifically, linvestigate the involvement of RNA and transcription factors in the differential recultiment and function PcC proteins. Methods: We performed ChIP-Seq, RNA-Seq and RIP-Seq in in vitro differentiated Th 1 and Th2 cells derived from normal and Ezh2-conditionally deficient mice. Results & Conclusion: We demonstrated that Ezh2 possesses a differentiation- and simulation-dependent binding activity in Th cells, and its binding is correlated with Th and Th2 specific transcriptional programs of differentiated Th 1 and Th2 cells. We further revealed that Ezh2 possesses a differentiation- and simulation-dependent binding activity in Th cells, and its binding is correlated with Th and Th2 specific transcription factor motifs. We found that Ezh2 is associated also with nascent RNA, and
	Detection of lymphoma based on a novel herpes virus methylation assay Epstein-Barr virus (EBV) is the causative agent of infectious mononucleosis and has been associated with several human malignancies. Over 90% of adults are latently infected with EBV worldwide. In the majority of infected
Journo	Individuals, EBV infection is asymptomatic, but in certain cases it can lead to the development of several malignancies. EBV is associated with 30-50% of Hodgkin lymphoma (HL) cases, and over 90% of nasopharynged carchoma (NPC) cases. Viral copy number in the blood as a diagnostic tool for the detection and monitoring of EBV-associated NPC is already in practice. The major challenge of viral copy number in the blood is to draw the threshold line to distinguish between healthy EBV-carriers and patients with EBV-associated malignancies, since I varies significantly between individuals. In tatently infected cells, including tumor cells, the viral episomal genomes are CPG methylated, as opposed to the un-methylated virion associated viral DNA. We hypothesized that CPG methylated EBV genomes will be present preternalialy in the blood of patients with EBV-associated malignancies. Eave I varies binding domain (MBD) protein allowed separation d virion from cell-derived EBV DNA. We followed CPG methylated as though lower levels of EBV DNA was the plasma of patients with EBV-positive HL and NPC. Methylated CPG DNA was the predominant form d EBV DNA. We followed CPG methylated EBV DNA was detected in the plasma of patients with EBU-angaive HL, EBV-positive only un-methylated EBV DNA could be detected in plasma from patients with HL and NPC. Although lower levels of EBV DNA was detected in the plasma of patients with EBU-negative HL, strikingly only un-methylated EBV DNA could be detected in plasma from these patients. This study suggests that in addition to measuring EBV copy number in the plasma, CPG methylation analysis is a potential biomarker for EBV
	associated malignancies.
Ahuja	(Kaposi's sarcoma associated herpexirus (KSHV, HHV-8) is a gamma herpexirus associated with several human malignancies such as Kaposi's sarcoma (KS), primary effusion lymphoma (PEL) and multicentric casteman's disease (MCD). Human endogenous viral elements (EVE) or transposable elements (TEs) are mobile genomic sequences of viral origin that are able to change their position with the genome. Tes have been linked with a variety of disorders and malignancies, though the precise nature of their contribution to many of them has yet to be elucidated. The effect of KSHV on celular gene expression was extensively studied, but our knowledge regarding the effect of KSHV on relative precises on viral elements (EVE) and multicentric casteman's disorders and malignancies, though the precise nature of their contribution to many of them has yet to be elucidated. The effect of KSHV on celular gene expression was extensively studied, but our knowledge regarding the effect of KSHV on relative sequencing (RNA-sasociated primary effusion lymphoma (PEL) calls (BCBL1 and BCG), and following de-novo infected cells which includes LTR transposons, Long Intersporsed Nuclear Elements (SINEs), DNA transposons and DNA repeat elements. A was number of TEs we have dependent full herspersed Nuclear Elements (SINEs), DNA transposons and DNA repeat elements. A was number of TEs were greated than down-regulated in the denova infected cells hus elimes, BCBL1 and BC3, shared –45% upregulated and –76% downregulated TEs. In de-nova infected BLAB cells, we also detected differentially expressed TEs are differentially expressi
	bahat Lavi Bouz Bouz Brant Journo Ahuja

		The involvement of Ezh2 in chromatin organization in differentiating T helper Cells
Moran		Moran Titelbaum, Boris Brant, Yiftah Barsheshet and Orly Avni. Faculty of Medicine Bar-Ilan University
	Titelbaum	Aims & Background: Following their first interaction with the antigen, naive T-helper (Th; CD4+) cells can differentiate into distinct lineages of effector or regulatory cells characterized by specific profile of cytokines. These cytokines instruct eventually the strategy of the immune response. Previous studies in our lab showed that the polycomb group (PcG) proteins function in differentiated Th cells as both negative and positive transcriptional activators. The mechanisms underlying this dual function have not yet fully understands of the known involvement of the PcG proteins in the regulatory cells characterized by specific profile of cytokines. The mechanisms underlying this dual function have not yet fully understands. Considering the known involvement of the PcG proteins in the regulation of chromatin structure and transcription on one hand and cytoplasmic actin polymerization on the other, we hypothesized that these epigenetic regulators harness the actin machinery for their nuclear functions. Methods: We used Chip assay, biochemical methods and confocal microscopy to assess the function of Ezh2 in differentiating Th1 and Th2 cells. Results & Conclusions: Here we demonstrate a peak in the presence of nuclear Facin 24 hours following stimulation of nuclear actin and for the F-actin-dependent nuclear chromatin reorganization in differentiating Th cells. All together our study suggests a model in which Ezh2 regulates chromatin structure by modulating actin polymerization.
		Moran Titelbaum Mobile phone: 050-4411154 Laboratory phone: 072-264-4921 Ernal: Monitible@gmail.com M.Sc. student Presented as a Lecture
		Social stress-responsive microbiota jeopardizes self-tolerance
		Mor Zigdon1, Michal Werbner 1, Yfitah Barsheshet 1,Rachel Haupt1, Iva Lukic1,Evan Elliot1, Omy Koren1, Orly Avni1 Bar-Ilan University Faculty of Medicine1
mor	zigdon	Am & Background: Autoimmune diseases combine genetic predisposition and environmental cues. Stressful life events are considered a risk factor for autoimmune diseases, though the mechanisms are unclear. Stress-triggered neuroendocrine hormonose lised to immune dysregulation, but considering the recently appreciated gut-brain-microbiome axis, and the well-known microbiome-immune interactions, we asked whether and how the brain-microbiome-immune titrage is involved in stress-promoting autoimmunity. More specifically, how the microbiome is affected in response to stress, the way it is affected, and why these changes cause susceptibility to autoimmune diseases and other diseases such as depression. Methods: To answer these questions we used the chronic social defeat (SD) model in wild type C57BL/6 mice and Myelin Oligodendrocyte Glycoprotein (MOG)-specific T cell receptor transgenic (2D2) mice. To profile the microbial composition we performed 155 rRNA gene sequencing of feces, to assess depression we performed behavioral tests, and to investigate immune response we purfied the mesenteric lymph nodes and exam the differentiation and function of T heper (CD4+) cells. Results & Conclusion: Together our results delineate a model in which the immune reaction to stress-responsive bacteria compromises tolerance to self, and therefore may increase the risk for autoimmune diseases and depression especially in susceptible individuals.
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		מעמד אקדמי של החוקר המציג סטודנט מחקר
Yara	Hamshawi	Stabilizing the pancreatic α to β-cell transdifferentiation by inhibiting neogenic δ-cell formation and somatostatin secretion. Yara Hamshawi, Ron Piran. Bar-Ilan University Faculty of Medicine.
		Am 6 abarground: bon type 1 (10) and type 2 (120) classess are characterized by having an inadequate supply of functional p-cells over time, therefore p-cell report and indicates are characterized by having an inadequate supply of functional p-cells over time, therefore p-cell report and indicates are characterized by a consisting of careful p-basel and which led to islet cell transdifferentiation, but the result was a large amount of 5-cells formation and somatostatin accerdion. In this study, we aim to use these findings to explore ways to stabilize the β-cell intermediate during the α- to β- to δ-cell transdifferentiation. Dut the result morecase by inhibiting neogenic 5-cells formation and somatostatin accerdion. In this study, we aim to use these findings to explore ways to stabilize the β-cell intermediate during the α- to β- to δ-cell transdifferentiation. The result morecase by inhibiting neogenic 5-cells formation and somatostatin accerdion. Thus, by eliminating the δ-cell fate or preventing 5-cell maturation we hope to generate stable β-cells. Results & Conclusion: Alwan-mediated ablation of β-cells in mice led to severe hyperglycemia in all groups. Surprisingly, female StKO mice highlighted and advantageous phenotype compared to StKO males, in which the females were practically cured from diabetes, providing evidence that there is an unexpected effect of the combination of sematostatin and sex hormones on glycenic levels. Somatostatin-secretion inhibitor drugs are already available. These results highlight the possibility to cure diabetes if somatostatin secretions in hibitied in diabetes.
		Hyperbanc oxygen therapy For attenuation of neuropathic vulvodynial pain in a rat model
Shilo	Dadon	Shib Dadon1 3, Eliam Palzurt J. Jacob Bornstein 1,2,3 The Gynecology research laboratory, institute for medical research, Western Galilee Hospital, Nahariya1, Department of Obstetrics and Gynecology, Western Galilee Hospital, Nahariya2, The Azrieli Faculty of Medicine, Bar-Ilan University, Israel3 Background: Vulvodynia, defined as: "vulvar pain of at least 3 months' duration, without clear identifiable cause, which may have potential associated factors" is still an engma, since the etiology and pathophysiology are still discussed. University, Israel3 university, Israel3 used for potential cany other body pain, vulvodynia has a special significance, because it involves the intimate parts and as a result of the vulva being a sexually function organ. Recent works have described proliferation of intrademal and intraepithelial nerves, in women with vulvodynia. To further study the pathogenesis of the neuropolferation, and possible treatments, a search for an animal model seemed warranted. Recent studies suggested the use of hyperbaric oxygen therapy (HBOT) as a treatment for Fibromyalgia which share common features with vulvodynia, use to evidence have bee proposed for its mechanism. Arms: Establishing a novel rat model of vulvodynia presenting behavioral (pain) and neuroproliferative alterations in order to study the effect of HBOT as a turbus, in initially, baseline pain threshold will be measured, each rat will examine compared to her initial values. In order to induce vulvodynia, Vulvar pain measurements with bulvodynia, vulvar pain measurements of his mochanie to sensory O theory any sum be and saline hijected-sharm group. After there preditions of this process, rats devidop a chronic vulvar pain - Vulvodynia. Vulvar pain measurements will be obtained by "Electronic von Frey" device. Rats will be closed for a trut of 11 weeks. Neuroproliferation will be measured by the density of unnyelinated sensory C theres, payteduse in there and saline hijected-sharm group. After three repetitions of this process, rats dev
		Results & Conclusions: After repeated exposures to Zymosan, rats developed persistent vulvar pain.
		מס' טלפון בעבודה: 2013 (4-90) 100 @@gmcg.gov.il מנגד אקדמי טורנט מהקר
		Structural and Functional Investigation of the Nucleocapsid (N) protein of the Fig Mosaic Virus (FMV). Itai G. Yechezkel1, Joel Atter1, Moshe A. Dessau1 The Azrieli Faculty of Medicine, Bar-Ilan University, Safed, Israel
Itai	Yechezkel	The Fig Mosaic Virus (FMV) infects a mass of agricultural produce, from figs to mulberries, and is the known cause of Fig Mosaic Disease (FMD). FMD not only affects the foliage of these plants, it also causes the production of smaller and motiled finals. Coupled with the fact that global hunger is on the rise – this year being an estimated 124 million people facing crisis food insecurity (Global Report on Food Crises 2018) it is becoming increasingly important to produce all food sources. FMV is part of the Fimoviride family and shares multiple similar proteins, including the Nucleocapsid (N) protein. N proteins of a variety of viruses are known to encapsulate the viral RNA and have a handful of functions for viral viability. Whils N protein structures have been solved for various other viruses, there are numerous differences between these N proteins and therefore uncovering the tertiary structure of FMV N will contribute towards an understanding of its specific function in FMV. We hypothesise that the N protein binds to RNA in an oligomeric fashion. We expressed and purified multiple constructs of FMV N in a E. coil bacterial vector system and set up a broad range of crystal screens, that resulted in mumorous hits delpaking various microcrystals morphologies. We use Mass Spectroscopy and N-terminal sequencing to gain further understanding to the constructures wated and we hope to optimise the confiltions for crystal growth to allow us to use X-ray crystallographic techniques to solve a three-dimensional structure helping to unravel the mechanisms by which FMV N protein encapsulates the RNA genome of FMV, and by that will reveal new structural, evolutionary and functional insights on this new and unique plant with.
		Keywords; Fig Mosaic Virus; Fig Mosaic Disease; Viral viability; Nucleocapsid; X-ray Crystallography
		Contact information Ital G. Yechezkel, M.S.: Student, The laboratory of Structural Biology of Infectious Diseases, Moshe Dessau PhD. Azrieli Faculty of Medicine in the Galilee, Bar-Ilan University, 8 Henrietta Szold St. Safed, 1311502, Israel. Tel: +972-50-266-3383 E-mail: talgershon.yechezkel@live.biu.ac.il Office: B104

		P8 of High Plains Wheat Mosaic Virus Structure and Function Sagi Hamo, Joel Alter and Moshe Dessau The Azrieli Faculty of Medicine, Bar Ilau University Front security is a norwing concern in the western world as well as in developing countries. High Plains wheat mosaic virus (HPWMoV) is a member of the newly discovered Emaravirus penus, transmitted by the wheat curl mite
sagi	hamo	Proceeding is a global water as the event of the High Plana disease in where an indexecting of a minimum of the assess of the event of the High Plana disease in where an event of the High Plana disease in where an and post-transcriptional gene silencing. To bypass this mechanism, viruses have developed viral suppressors of RNA silencing that reduce or inhibit his defense partway. These virus and suppressor proteins PL-98 (specific the disease) where an intervent of the High Plana disease in where an and post-transcriptional gene silencing. To bypass this mechanism, viruses have developed viral suppressors of RNA silencing that reduce or inhibit his defense partway. These virus any in terms of structure and effect, and their diversity suggests that they may function by different unknown mechanism. HPWMoV is a negative sense single stranded RNA virus with an octa-partie genome comprising segments S1 – S8, that encode proteins PL-98 respectively. The P8 protein was found to be a suppressor of RNA silencing that suppressor proteins is scarce, particularly on those encoded by Emaraviruses. In this study, we aim to determine the crystal structure of HPWMoV encoded RNA silencing suppressor the rechanism of action. In our preliminary results, we show the expression and purification of P8 to high degree of homogeneity. We discovered that P8 oligomerizes in solution. We verified our findings using both cross-linking methods and Mass spectroscopy. Finally, were also be to crystalized P8 and obtain diffracting crystals studies. Once the structure of P8 will be in hand, we will bichemically investigate the underlying mechanism of siRNA suppression during HPWMoV infection.
		Phone number- 0528666366 Email – sagi hamo@gmail.com Academic Status: graduate research student
Zohar	Hamo	Arm & Background: This research focuses on characterization of the host immune response to Clostridium difficile infection (CDI) in order to identify potential immunological biomarkers for determining CDI severity. It is important to recognize patients with severe disease due to high risk of complications and death. Methods: Fity-four patients diagnosed with C. difficile infection were enclaided in the study. Serum samples were obtained within a median time of 24-48 hours after the laboratory confirmation for presence of C. difficile. Cytokine and chemokine concentrations were measured using the ILLIPLEXMAP kit, based on fluorescent-coded magnetic beads. Demographic, clinical, and prognostic data concening the patients were retraspectively collected from medical records. The illness severity score was determined according to "Score indices for Clostridium difficile indecion severity". Results& Conclusion: Thirty-eight (70%) of the patients had a mild disease and 16 (20.8%) of the patients have retraspectively acceleration was found between a moderate disease and the following seven cytokines-GM-CSF (p = 0.01), LI-18 (p = 0.004), LL=8 (p = 0.009), LI-12p70(LI = 0.012, LI-16 (p = 0.003), Additionally, the ratio of LI-12p70(LI-10, and LI-12p70LI-110, and LI-12p70LI-10, and LI-12p70LI-10, and LI-12p70LI-10, and LI-12p70LI-10, and LI-12p70LI-10, and LI-12p70LI-10, and LI-12p70LI = 0.003), Additionally, the ratio of LI-12p70LI-10, and LI-12p70LI-10, and LI-12p70LI = 0.001, The cytokines that we have the disease of Thr response in more severe cases of CDI. The cytokines that dense with disease and the following seven cytokines that we have the disease of desage group, indicating increased Thr tesponse in more severe cases of CDI. The cytokines that we have the disease group indication of correlated that concerning the patients were an indicating increased Thr tesponse in more severe cases of CDI. The cytokines that we have the disease parentity and tisced the advisor to recognize patients with severe disease and tesp
		Examining the use of Debates in Medical Ethics Teaching of Medical Students Nehora Amar, Dr. Miriam (Miri) Bentwich Bar-Ilan University Faculty of Medicine
Nehora	Amar	ABSTRACT AM & BACKGROUND: Medical ethics concerns the moral dilemmas faced by physicians. It is recommended that medical ethics would be taught in small groups since they supposedly increase the students' critical thinking. Tabebate's a pedgagoical tool that is taken to enhance critical thinking, while bodstering enthusiasm among its participants regarding the discussed subjects. This study examines whether the use of the debate tool, within small groups learning of medical ethics among medical atticents, strengthenes their engagement with this subject and enhances their critical thinking. METHODS: An intervention study using a mixed-methods research approach. Videotaped small-groups learning essions in medical ethics were used, along with questionnaires administered at the beginning and end of the year regarding students' attitudes toward small-groups learning of medical ethics. 86 (90%) Instry-year students completed the questionnaires, out of which, 44 students also participated in the qualitative videotaped sesions. Four groups of students were compared: no intervention at all, no intervention at videotaped, partial intervention (use of the debate tool). Statistical analysis along with microanalysis based on Kamin's critical thinking model were used to analyze the data. RESULTS & CONCLUSION: In the quantitative part the 'full intervention' group showed the highest number of attitudes changed for the better (5/9) and lowest number of attitudes changed of the worse (2/9). In comparison, the partial intervention' and videotaped without intervention' groups showed the highest number of attitudes changed for the better (5/9) and lowest number of attitudes changed for the worse (2/9). In comparison, the partial intervention' and videotaped without intervention' groups showed the highest number of attitudes changed of the better (5/9) and lowest number of attitudes changed for the worse (2/9). In comparison, the subjective perceptions should be trusted in evaluating the success of medical ethics toaching in small
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		Using inhibitors to revert the epigenetic and oncogenic signature induced by Hepatitis C virus infection in liver cells after virus eradication. Tom Domovitz1, Shira Perez1, 2, Ateret Davidovitz1, Tomer Meirson3, Assy Nimer4, Salomon M Stemmer5, Izhak Haviv2 and Mettal Gal Tanamy1. Midercular Viruny Lah Azrieli Earuitu of Medicine in the Gallace Ratulan Linevirus Safet I scale 2/Cancer Personalized Medicine and Diagnostic Genomics Lah, Azrieli Earuitu of Medicine in the Gallace Barulan Linevirus
		Add Listed Floating Law, reach South
Tom	Domovitz	Background: Hepatitis C virus (HCV) is a major public health problem. It infects about 3% of the work? spoulation and it is estimated that 30% of patients eventually develop liver diseases such as Hepatocellular carcinoma (HCC). HCC is the fifth most common concer in men and the sevent in women worklived with poor propositios mainly because high rate of turom recurrence or metastasis. The therapy against HCV infection was for many years Interferon (IPN), with side effects and low sustained virological response (SVR), about 50%. The current therapy is direct acting antiviral (DAAs) that results in high SVR rates (>90%), shorter treatment duration (8 or 12 weeks) compared to IFN and high safety. However, evidences show that DAAs treatment reduces but not eliminate HCC development. Am: to exeluate the epigenetic signature induces by HCV infection and remain following DAAs treatment and to explore whether following IFN or specific inhibitors treatment the signature is treaters. Results: We have demonstrated in our lab that HCV induces epigenetic alteration in histone modifications following HCV infection has for many ears Interferon following IFN treatment, there is a reversion of the epigenetic signature. Importantly, we found that treatment with specific inhibitors (HAT, HDAC, EGFR inhibitors) following DAAs reduce the invasive and metastasis features by reverting epigenetic alterations in these results were also observed in mice model. Significance: This study has important implications for understanding the oncogeneis inplanture facilities (HAT, HDAC, EGFR inhibitors) following treatment that not only curre HCV but also revers its oncogonic effects.
		Tom Domovitz 050-0206833 1omdo17@gmail.com PDD student
		Wael Nasser, Avi On, Ehsan Na, Said Abozed, Boshra N, Haitham M, Mhernad S, Haia Nasser. BARUCH PADEH Medical Center, Department of Pediatric Nephrology, Poriya, Israel Affiliated to the Faculty of Medicine in the Gailiee - Bar Ilan University
Wael	Nasser	Introduction: Hencoh-Schonlein-purpura is a systemic vascullis, of amal vessels, resulting in skin, and performational and renail informent. The pathogenesis of HSP1 is postulated that an unknown chronic sanigaries is good, as HSP children the prognesis is good, as HSP children the prognesis is good, as HSP postularization. Helicobacter pylori is of the most common bacterial infections may cause some ettra intestinal manifestations some of which are demanded and and the state of the constructions of the program in purpura.
		Case Report: A previously healthy 10year-child was admitted to our department, because of-week history of abdominal pain, and purpura on his lower extensor extrementies. Physical examination revealed purpuric papulaes, on the legs, thighes, buttocks, On admission, his temperature was 37.5°C, and blood pressure 11060 mmHg. showed a white blood cell count of 18200/mm3
		I he hemoglobin concentration was 11.8g/dL, the platelet count was 400000, while normal results for serving reactinic level of Urnalysis revealed microscopic hematuria and proteinuria

rachel	haupt	A role for the gut microbiome in polycystic ovary syndrome? Rachel Haupt1, Metial Nuriel-Ohayon1, Lahz Ben-Shomo MD 2, Oren Ziv1, Omy Koren1 The Azreile Tacatuly of Modicine, Barl Iau Nureesity, Sated, Israel. 2Department of Obstetrics and Gynecology, Baruch Padeh Hospital, Poriya Background: Polycystic ovary syndrome (PCOS) is the leading cause of intertility and affects up to 10% of reproductive age women. While PCOS has been extensively studied in the last two decades, the precise mechanisms leading to the clinical complex of PCOS have meninde onjmatic to a large extent. It has been shown that dief and physical activity improve the state of women with PCOS and reduce the metabolic syndrome like characteristics and this is often the treatment. Studies in the new field of microbione research focus on the composition of oreall microoganisms in our body and their impacts on our health. Changes in the composition of the gut microbione shown that dief and physical activity improve the state of women with PCOS and reduce the metabolic syndrome like characteristics and this is often the treatment. Studies in the new field of microbiom research focus on the composition of oreall microoganisms in our body and their impacts on our health. Changes in the composition of the gut microbiome composition, det, and PCOS. Methods: Our methods include detary intervention, collection of fecal samples, DNA extraction and PCR amplification, sequencing and identification of 16S rRNA sequences, statistical analyses, clinical measures, microbiota transfer experiments into germ-free mice, and metabolomics. Results: We have tested and analyzed the microbiota of a samples provo of lean PCOS subjects vs. controls, and found distinct differences between groups. Metabolomic analysis did not result in significant differences and more samples should be tested. Ordelsions: Women with PCOS have differences in composition of gut microbiota. Understanding the meaning of these changes helps us gain insights into the mechanism of
Dana	Binyamin	Aim & Background: Pregnancy may affect the disease course of inflammatory bowel disease (BD), Both pregnancy and IBD are associated with altered immunology and intestinal microbiology. However, to what extent immunological and microbial profiles are affected by pregnancy in IBD patients remains unclear. Methods: Fecal samples were collected from 46 IBD patients [31 Crohn's disease (CD), 15 Ulcerative colitis (UC)] and 224 healthy controls during 14.2, 2nd and 3rd timester of pregnancy, and pre-pregnancy and pospartum for IBD patients. Bacteria DNA was extracted and the V4 region of 165 rRNA genes was amplified and sequenced using the Illumina MiSeq patform. Microbiome analysis was performed using OIIME2. Results & Conclusion: Pro-inflammatory serum cytokine levels in IBD patients descense significantly upon conception. Beta diversity analysis and inchress measurement di not reveal any significant differences relating to the different pregnancy time points. Microbiome reflects disease type, we could differentiate between CD and UC soldy based on the microbiomes with an AUC of 0.75. The microbiola diversity in pregnant UD patients was reduce compared to that in healthy women in the 1st trimester. Pregnancy reduces immunological parameters of inflammation in IBD patients. It seems that the immunological state of IBD patients improves upon pregnancy, while the overall pre-existing altered microbial composition does not appear to be worsened. Intestinal microbiome diversity of IBD patients.
Hagay	Ladany	Now variants in the NARS2 gene causing combined oxidative phosphorylation deficiency 24. Hagey Ladary1,2, Limor Kalfon, Ph02, Ben Harouch S, MD12, Mandel H, MD2 and Tzipora Falik-Zaccai, MD1,2. The Azrieli Faculty of Medicine, Bar Ian University, Safedt. Institute of human genetics, Gallee Medical Center, Nahariya. Am & Background, NARS2 is a member of a class of enzymes that charge rRNAs with their cognate amino acid called aminoacyl rRNA synthetase. NARS2 encodes the mitochondrial asparaginyl rRNA synthetase. To date, 15 patients with combined oxidative phosphorylation deficiency 24 (OMIM #612803) carrying eight different bi-allelic variants in NARS2 were reported. These patients with variants in NARS2 display wide range of pathologies including mycpatry, intellectual disability, hearing impairment, epilepsy, cerebral atrophy, renal disease, and basal ganglia lacions. We have identified a novel homocygous missense variant (c.1437-5) in the NARS2 gene in two sbillings who sabare a similar phonotype. Another homocygous missense variant (c.500A-5) in NARS2 was touch an another patient. In bho cases the variants were predicted as "disease casing" in-silico. C500A-5) in NARS2 was touch an another patient. In bho cases the variants were predicted as "disease casing" in-silico. C500A-5) in NARS2 was touch an another patient. The hor cases the variants were predicted as "disease casing" in-silico. C500A-5) in NARS2 was touch an another patient. The hor cases the variants were predicted as "disease casing" in-silico. The patient short hor lice 100400 controls. Biolite the variants in the expression and function of NARS2 and to correlate the variants in this gene with the patients phenotype. Another levels in bho target of thesis by real-time PCR and Western blot respectively. Protein collazion was attained by Immun0uroscence estaining. Methods: Skin derived fire/balast were used for evaluating the mRNA and protein levels by treal-time perferse inboton execters and the patients' line/balast. NARS2 in both the
Zaher	Armaly	Changes in glucose 6-phosphate dehydrogenase in diabetic nephropathy and hemodialysis: Correlation with Haptoglobin Genotype. Zaher Armaly, Safa Kinaneh, Add Jabbour, and Nayel Habasshi. Department of Nephrology, Nazareth Hospital=RMMS, Nazareth and the Azrieli Faculty of Medicine-Bar Ilan University, Zafed, Israel. Background: Clucose 6-phosphate dehydrogenase (G6PD), the rate-limiting enzyme of the pentose phosphate pathway, is the main source of the essential cellular reductant, NADPH. The latter, is of great importance for tissues actively engaged in biosynthesis of fatty acids. In the kidney, G6PD is important for normal renal physiology, where it regulates tubular sait handling, blood flow, and protects the cells against oxidative damage. Although experimental studies have demonstrated changes in G6PD in experimental disticuce nephropathy (DN), clinical studies are needed to determine whether similar changes occur in dabetic patients and subjects. Nather that the Athity councils 211 BD in an antionation of the patients of the patients and subjects. Single blood sample was drawn from the healthy subjects, patients with DN and Handeth healthy controls; 121 HD patients and 31 matched healthy controls. Single blood sample was drawn from the healthy subjects, patients with DN and HD. G6PD activity, hemoglobin, Haptoglobin phenotype, advanced oxidative protein products (AOPP), and Thiokarbitriri acid reactive substances (TBARS) were determined. Results: Entytrocyto (E6PD attivity) of diabetic patients was 9,045. Uly Ha So compared with the in anytar outrols 3.23.05 Uly (Hb D. 201, PD). The activity in healthy controls (180,642.4), MJN, Incontrast, AOPP was not different between DN (100,642.4), MJN and Her healthy controls (187.642.9), MJN, Similarly, THARS levels were elignicated in HD (7:1.045.2 MJ, He, 0:4.9). No antized reactive substances in G6PD activity. TBARS were found between DN and healthy controls, 12.5% of patients with DN were Hp 1-1, 43.9% Hp 2-2, In Har A3.7% Hp 2-1, In Hair changes occur
Hadar	Mor	Helminth-Based Product and the Microbiome of Mice with Lupus The hygiene hypothesis claims that the lack of exposure to microorganisms in developed countries correlates with a rise in the incidence of autoimmune diseases. It was also found that helminths are able to modulate the immune response in hosts in order to survive. Consequently, several successful trials using helminths as a treatment for autoimmune patients have been resported. The helminth derivative, phosphorylcholine (PC), was discovered as an immunomodulatery molecule. We examined the effect of TPC in lupus-prone mice when starting the administration after disease orset. TPC treatment altered the gut composition in the lupus, followed by an increased level of anti-inflarmatory intellowing blevels of pro-inflarmatory mediators, and expansion of the Tegulatory cell population. The major effects of TPC treatment on the gut microbiome included decreased abundances of Akkermansia and increased abundance of several genera, including Bifdobacterium, runchastified Mogbacteriacee, unclassified Mogbacteriacees in protein hevels in the ories of the regulatory of a population. The major effects of TPC treatment on the gut microbiome composition, as the increase of Biddobacterium, northastified Mogbacteriacee in protein weeks in the ories and improved disease parameters. Bifdobacterium is a widely used probletic with proven positive effects in numerous disease states. These effects are attributed to short-chain fatty acid (SCFA) production, especially lacate production, which is further metabolicad to butyrate. This fits our finding that the butyrate metabolism patients, its more stated mice. Butyrated mice. Butyrated probletic butyrate. The sits is an important and novel factor that may mediate TPC treatment, immune existed mice. Butyrate plays protective relies in maintaining the muce state the increase of by complex the interest. Bifto administer in the site of the interest the site of the interest the microbiome compositive affects the microbiome by
Munai	Abu_Rahme	An innovative ultrasound technique for early detecting of renal fibrosis: Superb Micro-Vascular imaging as a reference standard Munai Abu-Rahme, Suheil Artoul, Safa Kinaneh, Nayef Habasshi and Zaher Armaiy. Department of Nephrology and Radiology, Nazareth Hospital-EMMS, Nazareth and the Azriel Faculty of Medicine-Bar Ilan University, Zafed, Israel. Background: Superb microvascular imaging (SMI) (Toshiba Medical Systems, Tokyo, Japan), is an innovative ultrasound image processing technique that shows greater detail and better visualization of small branching vessels by using a unique algorithm that offer high frame rates, less clutter, and fewer fissue motion artifact that were not previously possible without the use of contrast agent. We assume that SMI will provide sufficient information regarding the serverity of chronic kidney disease (CKD) and reflecting the fitnetic changes. Ams: To assess the early detecting of renal fibrosis capabilities of SMI imaging in comparison to the reference standard renal biopsy, in order to determine the usefulness of this approach in the early diagnosis of kidney fibrosis ene without major changes in SGr. Methods: The SMI was performed in patients with CKD stage 2-4 where some of them underwent biopsy proven chronic renal dysfunction and fibrosis as part of the diagnosis and therapoutic judgment as needed. In addition, biochemical tests werely and heatity controls (in re1), haddition, all patients underwent SMI US imaging, where vascularity is performed in patients with CKD patients as compared with heatity control (272, 134, 243, 54, Pe0.001). Interestingly, stong correlation between the SMI linkex and eGFR was found among the CKD patients (re1.055, P.0.001). Similarity, a keen inverse correlation between the SCI and SMI linkex of the diseased subjects. Anong these who underwent trends boys, SMI index roles the histological attentions as and the dispersed. Gondusions: This study demonstrates that in patients with CKD of various stages, SMI imaging may be utilized a

Wisal	Sawaed	Combination Drug Therapy for Type-1 Diabetes in MICE Wisal Sawade, Assaf Malka and Ron Piran Bar lan University faculty of Medicine Am § Background: Type 1 diabetes (11D) is an autoimmune disease characterized by insulitis, a leukocytes infiltration of the pancreatic islets, and β-cell loss. Thus, an effective therapy may require β-cell restoration and immune suppression. Currently, there is no treatment that can achieve both goals efficiently. Previously, it has been shown that each of v-Aminobutyric acid (CABA), dispetitivity peptidase N inhibitors (DPP-4) such as Sitagliptin, or proton pump inhibitor (PPI) drugs like Omeprazole has beneficial effects in various diabetic mouse models. Therefore, we propose that their combined administration can bring forth an additive therapeutic effect. Methods: We tested this hypothesis in non-obse diabetic (NOD) mice. Diabetic male and female mice were paired and randomly assigned into two groups: non-treatment diabetic control or GABA, Sitagliptin, and Omeprazole, triple treatment. The drugs administered by cral gavage daly. Results& Conclusion: Combined use of GABA, Stagliptin and Omeprazole administration decreased blood glucose levels and improved the glucose excursion rate as compared to control group. Immunohistochemical analyses revealed that combined therapy managed to maintain β-cell mass. We also noticed that GABA, Sitagliptin, and Omeprazole administration have a survival advantage over matched controls at the beginning of the treatment.
Sarina	Shabso	The role of the Dermal Papilla (DP) in regulating the hair cycle clock Biological clocks are required to coordinate and synchronize multiple events within complex biological processes. The hair follicle possesses such biological clock that dictates the periodicity of the hair cycle. Hair follicles undergo cycles of growth (rangen), destruction (catagen), duescence (telogen) and regeneration. Depending on the strain, anagen in mice lasts for around 16 days and the transition from anagen through catagen to telogen requires approximately 2 days to complete. While these time scales persist in every cycle, the length of telogen varies from 2 days to few months, depending on the cycle and gender. Numerous models and theories have been proposed during the last five decades to explain the cyclic nature of the hair follicle. Yet, the components and the molecular mechanisms that underlie the hair cycle clock remain completely unknown. Previous studies have shown that Fg signating many play an important for in regulating the hair cycle clock. FgS knockout mice display abnormally long hairs as a result of prolonged anagen, while FgS administration during mid anagen results in premature induction of catagen. In addition to Fg signating, canonical Wnt signating pathway may also play a role in regulating the hair cycle clock. Ablation of b-caternin in the matrix or DP during mid anagen results in premature induction of catagen. We propose that some key components of the hair cycle clock reside in the DP, and both Fgf and canonical Wnt signaling pathways in the DP regulate the expression and activity of these components. 066304679 rr vo on sarinashabso@gmail.com PhD student
Nitzan	Biran	The cytoplasmic side of the nuclear pore complex (NPC) is characterized by distinct architectural features, such as the cytoplasmic ring and filaments, and by a subset of asymmetrically localized nucleopoins. Nup214, localized to the base of the cytoplasmic filaments, plays a key role in nuclear protein export and interacts with the essential DEAD box protein Dbp5, which is critical for mRNA export. Here we report bialletic missense and frameshift pathogenic variants in the gene encoding human nucleopoin NU10214 causing acute febrile encephalopathy. Clinical symptoms include neurodevelopmental regression, seizures, single cell level. NUP214 and NUP88 protein levels were reduced in patient-derived primary skin fibroblasts to determine a set of disinct phenotypic changes at the single cell level. NUP214 and NUP88 protein levels were reduced in patient-derived primary skin fibroblasts under the total number and density of nuclear pore complexes remained normal. Nuclear transport assays exhibited defects in the classical protein import and mRNA export pathways in patient cells. Direct surface imaging of flatoblast nuclei by scanning electron microscopy revealed a large increase in the presence of central particles (nown as "plugs") in the nuclear prore channels. Selective barrier function. Exposure of patient-defined fibroblasts, while the total number and density of nuclear pore cannels. Selective barrier function. Exposure of patient-defined fibroblasts unclear prore channels of patient cells. This observation suggests that large many be delayed in passage through the nuclear prore channels. Selective barrier function. Exposure of patient-defined fibroblasts to heat shock resulted in a marked delay in their stress response, followed by a surge in apoptotic cell death. This suggests a mechanistic link between decreased cell survival in cell culture and severe fever-induced brain damage in patients. Our study provides the first report of a change observed by direct imaging at the single nuclear pore level b
Fadia	Zagairy	Nuclear envelopathies comprise a heterogeneous group of diseases caused by mutations in genes encoding nuclear envelope proteins. Lamina-associated polypeptide1 (LAP1) is a ubiquitously expressed protein located in the inner nuclear membrane. Mutations in LAP1 have been reported to result in two discrete phenotypes of muscular dystrophy and progressive dystonia with cerebeliar atrophy. Here we report? Tradients of similar ethnic background who are homosygous for a nonsense mutation in the TOR1AP1 genes, resulting in the loss of both proteins is softmat atrophy. Here we report primary skin fibroblasts exhibit changes in nuclear envelope morphology including reduced anti-lamin A/C nuclear rim staining intensity in addition to the emergence of large channels containing trapped cytoplasmic organelies and traversing the nucleus. The patient fibroblasts akib displayed functional cellular impairment demonstrated by decreased and inefficient directional as well as random cell motility. Transduction with LAP1-coding constructs succeeded in rescuing multiple cellular phonotypes and inhierd at adfirential effect of the worp rotein is dorms. Our study describes the complete absence of both major human LAP1 isoforms, underscoring their crucial rote in envy development and organogenesis. LAP1-associated defects may thus comprise a bread clinical spectrum, varion in seven and envents and complete absence of both major human LAP1 isoforms, underscoring their crucial rote in envy development and organogenesis. LAP1-associated defects may thus comprise a bread clinical spectrum, varion in seven and envents and envents and envents the nuclear evelope throwhould life.
Inbal	Mazal-Yeger	The effect of PAI-1 inhibitor treatment on apoptosis pathway in kidney of rat model of preeclampsia Inbal Mazai-Yeger 13, Eliam Paizur1, Marwan Odeh 12,3, Jacob Bornstein 1,23 The Gynecology research laboratory of the institute for medical research1, Department of Obstetrics and Gynecology, Galilee Medical Center, Nahariya2, The Azrieli Faculty of Medicine, Bar-Ilan University, Israel3 Alm & Background: Preeclampsia is a specific syndrome that occurs in pregnancy and characterized by development of hypertension and proteinuria. It may damage the kidney, Invertent that occurs in pregnancy and characterized by development of hypertension and proteinuria. It may damage the kidney, Invertent that occurs in pregnancy and characterized by development of hypertension and proteinuria. It may damage the kidney, Inversity transmant alcohelium is most clearly visualized to morbidity and mortality of the mother and fetus. Kidney involvement is very inguent. Injury to maternal adobtelium is most clearly visualized to morbidity and mortality of the mother and fetus. Kidney involvement is very inguent. Injury to maternal adobtelium is most clearly visualized to the kidney, with reveals the characteristic cause to morbidity and mortality of the endothelial cells, with modes damage to the podocyte loop processes. PAI-1 inhibitor (PAI-1-DP) is a new peptide that binds to the regulatory region of IPA, but does not affected on the fitting/sis activity. The aim of this study is to examine the effect of PAI-1-DP on apoptosis pathway in ginemula cells in kindeys of preeclampsia. Biodo preesure and protein in urine were measured. At day 20 of pregnancy, the rast were treated with L-NAME causing hypertension and proteinumunchistochemistry staining with specific antibody to HIF1-alpha, Endoglin(CD105), Cleavage Caspase 3. In addition, MAPK protein family, was examined in a kidney lyszet, using multiplex array. Results& Conclusion: Treatment with PAI-1-DP reduced the levels of protein in urine, HIF1-alpha, Cleavage Caspase
Chen	Shochat	Zebrafish Crispants as a screening tool for bone GWAS candidate genes Chen Shochat Carvalho, and David Karasik Azriel Faculty Of Medicine, BRI tell Inliversity, Safed, Israel Objective: In recent years, genome-wide association studies (GWAS) have revolutionized the understanding of the genetic architecture of common, complex diseases such as osteoporosis. This approach reveals hundreds of candidate genes which may be involved in the mechanisms of disease. What is needed for post-GWAS exploration is a fast and reliable screen of candidate genes. One of the genes that came up in GWAS for bone mineral density (BMD) was LRP5, a co-receptor in the Wn-signaling pathway, which controls differentiation and proliferation of osteoblasts. In humans, various LRP5 mutations were shown to affect bone mass. Our lab established a Zebrafish osteoprovis model by lpfs fixochout (KO) and showed it had reduced notochord ossification at 7 days post fertilization (dp) and lower BMD at Juditudo. Here we aimd to eviduate a contribution to candidate genes screening strategy, based on zebrafish "orispants" (CRISPR-derived FD mutants) of Ip5, a well-established bone effecting gene. Methods: CRISPR-Cas9 was used to create lpt6 rispants: one callsage zebrafish cas9 post fertilization (dp) and lower BMD at Juditudo. Here we aimd to eviduate a contribution to candidate genes screening strategy, based on zebrafish "orispants" (CRISPR-derived FD mutants) of Ip5, a well-established bone effecting gene. Methods: CRISPR-Cas9 was used to create lpt6 rispants: were injected with Cas9 protein and Ip5 gRNA. At 7 dpt crispants and the same notochord ossification in each crispant was analyzed using Fij isdfware, and the correlation between ossified area of the notochord and genotype (the latter is expected to be mosic) was established. Results: We found that Ip5 crispants had the same notochord ossification leve als injected control and VT Ifs (p-value0.05) at 7dpf. Summary and Conclusions: In this study, we show that, unlike stable KO li
Yasmin Ghantous	Ghantous	Data pre-processing, Analyzed datasets were retrieved from Gene Expression Omnibus (GEO) and The Cancer Genome Atlas (TGGA) databases. Phenotypic information was manually reviewed and only samples from oral cavity, stage T1 or T2, HPV negative, primary human crai squamous cell carcinoma were considered. Normalized gene expression were processad using the Combine algorithm for removing batch effects [PMID:16632515]. Classifier development. Our final goal was to develop a classifier to predict node status in clinical settings using RT-PCR. Hence, we normalized our training data accordingly, using the GAPDH housekeeping gene as reference. For classification purposes, we used the "k Top Scoring Pairs" (KTPS) algorithm, which allows sample classification based on the dargergation of voker resulting formed regiment within a defined set of gene pairs (PMID:25282153). In order to avoid overfitting, we restricted statistical learning to pairs combining genes promoting metastasis with genes preventing it. We further required our final classifier to be parsimonious (i.e., no more than 6 dajorit pairs), biologically consistent (i.e., higher expression of pro-metastatic genes in node positive patients), and robust across platforms (i.e., based on the intersection of the top scoring paries identified by RNA-seq and microarray). Before independent validation vaRT-PCR, we locked the decision rule, maximizing specificity and sensitivity, a sample was classified as node negative if three or more pairs voited for node negative status. Classifier validation. We validated our classifier using an independent set of 38 patient samples using RT-PCR and 32 Patient Derived Xanografts (PDXs) using RNA sequencing.
Hanan	Rohana	Classification of Clostridium difficile STs and examination of correlations between the different strains, disease severity, and the gut microbiome Aim & Background: In recent years, the global incidence of C. difficile infection has increased dramatically with the emergence of hyper-virulent strains. Limited data is available with respect to C. difficile strains that cause a severe disease compared to those which cause a mild diarrhea. Our aim was to understand the different strains characteristics and the role of such differences in the severity of CDI. Methods: A severity score was calculated for each patient. All stool samples were tested for toxins' presence. Bacteriatives are located from the stool samples, identified by MALD-ITOF and antibicic susceptibility tests were performed for Metroindazeik, vancomycin, Tigecycline, and Modiforacin. Strains were classified by Multi-locus sequence typing (MLST), and the changes they inflict on the gut microbiome were tested. Results & Conclusion: Using MLST analysis, the different Sequence types (STs) were determined. The most frequent strains were: STo4, 37, 104, 42, and 02. The different STs were divided to different (cades, i.e. phylogenetic lineages, with clade 1 forming the majority of cases (81.4%, 577.00). We found a significant correlation between ST and susceptibility to Modifloxain (pe-0.04); the lowest mean was of patients with ST37 (n=9), 73.67.310, 49, 73.67.310, 49, 73.67.310, 49, 73.67.310, 49, 73.67.310, 49, 73.67.310, 49, 73.67.310, 49, 73.67.310, 49, 73.67.310, 49, 73.67.310, 49, 73.67.310, 40, 40, 40, 40, 40, 40, 40, 40, 40, 4

Elena		Novel variant in COQ4 causes developmental delay, regression, epilepsy and cardiomyopathy associated with CoQ10 deficiency.
		Elena Kirtadze, B.Sc1.2, Limor Kalfon, PhD1, Ayalla Fedida, PhD1.2, Ann Saada -Reisch, PhD3, Maha Ajami-Yousef, MD4, Antonia Ribes, PhD5,7, Daniel J. Moreno Fernandez-Ayala, PhD6,7, Ana Sánchez Cuesta6,7, Gloria Brea-Calvo, PhD6,7, Placido Navas Lloret PhD6,7, Hanna Mandel, MD1, Tzipora Falik-Zaccai, MD1,2
		1Institute of Human Genetics, Galilee Medical Center, Nahariya. 2Azrieli Faculty of Medicine, Bar Ilan University, Safed. 3Department of genetic and metabolic diseases, Hadassah medical center, the faculty of medicine, Hebrew University, Jerusalem, 4Clalit Heath organization, Haifa and Western Galilee district, 5Department of Biochemistry and Molecular Genetics, Hospital Clinic de Barcelona, Barcelona. 6Centro Andaluz de Biologia del Desarrollo, Universidad Pablo de Olavide-CISC, Sevilla, 7Centro de Investigación Biomédica en Red de Enfermedades (CIBERER) Raras Instituto de Salud Carlos III, Madrid, Spain.
	Kirtadze	Am and Background: CoQ10 is a lipid soluble component of all cellular membranes. It is one of two mobile electron carriers in the mitochondrial respiratory chain (MRC), carrying electrons from complex I and II to complex III. COQ1 is one of ten genes involved in CoQ10 biosynthesis. Its exact function is unknown. Primary CoQ10 delicions, due to the genes involved in CoQ10 biosynthesis. Its exact function is unknown. Primary CoQ10 delicions, due to the unitations in COQ4 were reported. We report the clinical, biochemical and genetic defect of twin females with primary CoQ10 delicions, due to mutations in COQ4 were reported. We report the clinical, biochemical and genetic defect of twin females who presented with early onset of severe hypotonia, developmental delay and regression, seizures and hypertrophic cardiomyopathy. Plasma and CGF factate were normal and did not rise the suspicion of a mitochondrial deorder.
		Methods: Trio WES was performed followed by bioinformatics analyses, Sanger sequencing and segregation analyses of candidate variants. Biochemical studies aiming to confirm the pathogenicity of a genetic variant in COQ4 were performed in patients' fibroblasts (PF) including spectrophotometric study of MRC activities and biosvinthesis rate by radicactive precursor incorporation measurements by HPLC.
		Results & Conclusions: Both sisters are homozygous for a novel missense variant in COQ4, c.437T>G, segregating in an autosomal recessive manner. Western blot and RT PCR analyses revealed no significant reduction of the protein signal nor a decrease in the transcript level of COQ4 respectively. PF showed around 40 prnol CoQ10/mg protein (normal range: 57-121) and reduced activity of complex II-III in the PF. In vivo incorporation of CoQ10 radioactive precursor p-H8 showed 80% reduction in COQ10 biosynthesis in PF. These data confirm the pathogenicity of c.437T>G in COQ4 leading to Primary CoQ10 deficiency. Determining the underlying molecular defect would enable accurate genetic counseling, prenatal or preinphantation genetic dagnosis and screening of high risk populations.
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		Explaining post traumatic symptoms after emergency and elective cesarean section: A structural equation model
		Yeela Tomsis, Ph.D1, Salam Hadid, Ph.D.1,2 Nursing school, Zefat academic college1, Galilee Medical Center2
Yeela	Tomsis	Abstract Am & Background: Cesarean section (CS) in a lifesaving procedure. Nonetheless, it may involve feelings of helplessness and severe distress. In addition, CS recovery is usually more painful and challenging compared to vaginal birth. Combined with normal post-partum maternal stress, the harsh experience sometimes evolves into greater levels of distress, leading to postrraumatic stress symptoms (PTS) up to full spectrum post-traumatic stress disorder (PTSD). The aim of the study was to compare PTS levels of women who had emergency CS and women who had elective CS, and to build an integrative model which explains the relations between various factors related to post- partum PTS after CS. Methods: As a part of a prospective cohort study, 161 eligible women filled as et of questionnaires four days and six weeks after emergency or elective CS. The questionnaires included demographics, Self-efficacy, perceived difficulty of the labor, perceived control and PTSD questionnaires. PTSD was defined as per DSM-V criteria. Results: Filteen women (0,3%) had full spectrum PTSD A significant difference was found between women who had emergency and elective CS in PTS levels, perceived control and perceived difficulty of the labor, benceived and perceived difficulty of the labor does not and perceived difficulty of the labor and perceived control explaned 45% of the variance in PTS using a structural equation model. Conclusions: Reducing the levels of personal distress by increasing perceived control during CS (a factor that may be externally controlled and manipulated during SC), may reduce the incidence and severity of full spectrum postpartum PTS and PTS, particularly and may ment with we set efficacy or CS.
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		Identifying novel silent patterns in coding regions of Hepatitiis C virus for viral attenuation
		Roba Dabour1, Ateret Davidovitz1, Tamir Tuler2 and Meital Ga-Tanamy1
		Inductular viology Lau, Azine racuny of weducine in the Samee, Barniar Onversity, Same, Steparine in Group Laurence and Samee, Background & Aims: Hepatitis C virus (HCV) is a leading cause of liver disease. No vaccine is currently available. Live attenuated vaccines contain viruses that have been weakened so that they do not cause serious disease in
Roba	Dabour	people with healthy immune systems, but still induce efficient anti-viral immune system. Understanding how viruses co-evolve with their hosts and adapt various genomic strategies to reduce their fitness have essential implications in developing new vaccines. In this study ve provide evidence of evolutionary selection for 'silent' patterns of information hidden in the HCV genetic code based on mRNA folding, using a novel genomic analysis. Synonymous Methods: We used novel bioinformatics toots to analyze HCV genomes from databases to identify synonymous information which are related to mRNA folding. We first constructed various HCV mutants that differ in number and positions of inserted synonymousmutations. To evaluate the effect of the synonymous mutations on viral fitness, we measured the level of HCV replication of these wiruses by infecting pheatema cells and performing qPCR for HCV. RNA. We also evaluated the ability of these viruses to spread to adjacent cells by infecting the cells and counting infected els comprising auch focus, using internuclifuses encode that devel with correlation to the level and performing qPCR for HCV RNA. We also evaluated the ability of these viruses to spread to adjacent cells by inficing the cells and counting infected elso comprising auch focus, using introduce the evaluated the ability of these viruses to spread to adjacent cells by inficing the cells and counting infected elso comprising auch closes, using introduce the evaluated the ability of these viruses to spread to adjacent cells by inficing the cells and counting infected elso comprising auch closes using an other provide provide the comprising auch closes. Using a constraint of the level of HCV replication of the close of the WT. The levels of replication of the different mutants varied with correlation to the level and positions of attenuating mutations. We also observed reduction in HCV spread, also correlating a tother by display the potential disproximons to additions. Conclusions: The induced to the varie d
		מספר טלפון בעבוד מספר טלפון בעבוד נסגובת דוא ^ל ל 2011 נסגובת דוא ^ל ל 2011 נסגובת דוא ^ל ל 2011 נסטר פוסטר פוסטר
		The role of HIF1A in modulating the epigenetic and oncogenic signatures induced hy Henatitis C virus infertion.
	avraham	Erez avraham1, Ateret Davidovich1 and Meital Gal-Tanamy1
		1Molecular Virology Lab, Azrieli Faculty of Medicine in the Galilee, Bar-Ilan University, Safed, Israel.
		Introduction: Hepatitis C virus (HCV) is a major public health issue and it is estimated that 30% of patients will eventually develop liver diseases such as Hepatocellular carcinoma (HCC). It is known that HCV causes hypoxic and increase in reactive oxygen spacies (ROS) levels due to mitochondrial dysfunction caused by the viral proteins. This mailfunction promotes metabolic switch to glycotysis pathway. High levels of ROS contribute to stabilization of hypoxia-induced factor 1 alpha (HIF1A). HIF1A is a master regulator of cellular survival genes. We explore the role of viral proteins in HIF1A stabilization, its role in HCV replication, and expression of HIF1A-induced genes, which facilitates in cellular survival under hypoxia.
erez		Methods: To evaluate the ability of HCV to cause hypoxia, we measured ROS production in HCV infected cells following HIF1A inhibitor/activator treatment. To evaluate the effect of HIF1A on the infectivity of HCV, we treated uninfected cells with HIF1A inhibitors/ activators and infected the cells. To evaluate the effect on HCV replication, we first infected the cells and then treated with inhibitors. To evaluate the ability of virus proteins (NS3 and Core) to regulate candidate genes in HIF1A pathway, we generated stable transfection cell lines. Evaluation of gene expression and replication levels for HCV RNA were performed by RT-PCR.
		Results: HCV infected cells showed higher levels of cellular ROS production after HIF1A activator treatment compared with reduced levels of ROS production after HIF1A inhibitor treatment. Treatment of HCV infected cells with HIF1A inhibitor results in decreased HCV replication and infection, whereas treatment with HIF1A activator resulted in increased HCV replication and infection, whereas treatment with HIF1A activator resulted in increased HCV replication and infection, whereas treatment with HIF1A activator resulted in increased HCV replication and infection, whereas treatment with HIF1A activator resulted in increased HCV replication and infection. Whereas that were increased following HCV infected cells with high the served significant up also in cells expressing Core protein.
		Conclusion: These results show that the host master regulator HIF1A has a significant role in HCV life cycle.
		מספר טלפון נייד. 255586132. מספר טלפון נייד. erezbya@wala.com סטודני מחקר הואר שיני פוסטר.
		Analyzing Chromatin Condensation in Yeast by Second Harmonic Generation Microscopy Katreena Yamin1, Michael Assa1, Avi Matityahu1 and Itay Onn1
katreena	yamin	1 the Azneti +acutty of Medicine, Bar-Ilan University1
		Chromosomes reach maximum level of condensation in pro-metaphase. In mammalian cells, condensed mixtot chromosomes are visualized as individual bodies. However, the small size of the nucleus in budding yeast (Saccharomyces cervisia) and the low level of condensation makes the assessment of condensation in these cells a challenging task. Several methods have been developed to study condensation in yeast. However, all of them suffer from major weaknesses. We developed a new method to study chromatin condensation in lives vess cells achallenging task. Several methods have been developed to study condensation in yeast. However, all of them is which the energy of consecutive photons is reflected from isotropic molecules, such as chromatin, One challenge that we encountered in generating second harmonic generating executive photons is reflected from isotropic molecules, such as chromatin, One challenge that we encountered in generating second harmonic materia. We utilized this method to analyze changes in chromatin density throughout the cell cycle in yeast. Furthermore, we showed that SMCs play a central role in chromatin organization and mediates condensation. This method provides a new tool to study chromatin acritication of the yeast cells. The tool to study chromatin structure in live yeast cells.
		אסט דער ו- אבאראדיאריט אס' טרפון בעודר אילים (בעודר דאילי 2004) בעמד אקדמי: סטורנטית מחקר.

Anjali	Pathania	Cohesin loading onto the chromosomes is regulated by the interaction of the core Scc3 subunit with the loader. Anjail Pathania1, Wenjie Liu2,3, Avi Matityahu1, Joseph Irudayaraj2,3 and Itay Onn1* Cohesin is essential for sister chromatid cohesion, which ensures equal segregation of the chromatids to daughter cells. However, the molecular mechanism by which cohesin mediates this function is elusive. Scc3, one of the four core subunts of cohesin, is essential for cohesin activity. Scc3 contains two armadilio repeats and a 90 annio-acid inphy conserved domain. The mechanisms by which cohesin mediates this function is elusive. Scc3, one of the four functional domains is elusive. Here, we describe an in-frame five armadilio repeats and a 90 annio-acid inphy conserved domain. The mechanisms by which Scc3 contributes to the activity and the identity of its functional domains is elusive. Here, we describe an in-frame five armadilio repeats and a 90 annio-acid information acid 1704 (scc3-78) in yeast Scc3 that is located in the second armadiling the peat. Chesien-scc3-R2 and peat cohesion. Co-immunoprecipitation analysis for cohesin subuits showed (fferential binding to Scc2 and upon overexpression the growth phenotype of cells carrying the scc3-R2 was partially suppressed. These results imply that Scc3-Sc2 that induces no seconfic Cohesin. Davis interactions. Apparently, we identified two adjacent aspartic acid residues that imitate scc3-R2 allele in viability and loss of cohesion. The results of this study provide new insight into the mechanism by which cohesin is loaded onto chromatin. Furthermore, it uncovers the interplay between Scc3 and the cohesin loader. Distance sculptices are bundle.
Maria	Elias	Dissecting cohesin mechanism of action by peptide-based inhibition of head domain engagement Maria Elias1, Avi Matilyahu1, Samar Gani2, Yana Lemer2 Nir Ovit2 and Itay Onn1 1.0.hnomosome instability and Dynamics Lab, The Azrieli Faculty of Medicine, Bar-lan University 2.cohemistry and Biology of Proteiner Tortein Interactions Lab, The Azrieli Faculty of Medicine, Bar-lan University Cohesin is a chromosome-associated multi-subunit protein complex that tethers the sister chromatids in a process known as sister chromatid cohesion. This process ensures the fidelity of chromosome segregation in dividing cells regulates gene expression and involved in DNA repair. Mutations in cohesin encoding genes are associated with developmental disorders and cancer. The core of cohesin is composed of two SMC proteins called Smc1 and Smc3. SMC proteins are elinophysic tes their disengagement. However, wrigh title is known about the molecular details of this interaction, its dynamic called a an ABC-type ATPase domain. ATP binding induces the differing genes. However, wrigh title is known about the discular domains thus halves of an ABC-type ATPase domain. ATP binding induces the dimenzation of the Bmc1 and Smc3 had some at the peptides are inhibitory peptide approach. We designed a series of short peptides to inhibit head domain in depti. In addition, we interaction, its dynamic cuels and tests their inhibitory office. This approach, We designed a series of short peptides to cohesin in edids in in addition, we interaction. We apress these peptides in cells and tasses their effect on colesin actions. This process and the induces and test induces and the induced action is down in addition, we interaction is down and the peptides are inhibitory peptide approach. We designed a series of short peptides to cohesin enclones actively. Our results so far indicate the some of the peptides are inhibitory cohesin actively. The design are uncomesed the full addition, we interaction is down and the peptides in the bitoty effect. This approx nom
Nomy	Dickman	Namp Dikman1, Basem Hijazi1, Abraham O. Samson1, & Lea Even1,2 Azrel Faculty of Medicine, Bar-Ilan University1, Western Galiee Hospital, Nahariya2 Ain & Background: Medical students complete clinical rotations during their clinical years. In each department, a junior resident plays the role of a "tuto" that covers medical, logistical and personal aspects. This role has yet to be investigate in depth in the medical education literature. Our experience taught us that good departments typically get good remarks on their tutors. Accordingly, we assessed the contribution of students' satisfaction from their itutors to students' overall astisfaction from the clinical rotations. Ari: to improve the teaching of the medical doctors who teach in the clinical rotations in hospitals. The research's question: is there a correlation between the students' satisfaction of the tutors and their satisfaction of the clinical rotation? Methods: Methods: Question: during their clinical rotation was assessed using a Like tifty a rank scale. Qualitative written assessment of the tutors was convected into one to three numerical scale. Spearman correlations tested the relationship between these variables has been reported. To students in two hospitals counciliand in tutors and their satisfaction of the clinical rotations. To the best of our knowledge, this is the first time in the literature that the relationship between these variables has been reported. The tutors are not the only teachers in the clinical rotation. Interestingly, when only the tutor in a department was changed, the departmental satisfaction score rose with the tutor's score. Conclusions: It is essential to study in-depth the characteristics of "excellent" tutors and to invest substantial resources in training tutors. Or all talk descellent to restrict the state assessment of the clinical rotation score rose with the tutor's score.
Yakir	Lidani	A method of leaching students in the clinical clerkship combining two existing methods, TBL and VAKE Peritiz Y.1, Ben Shlomo I.1, Even L.2, Lidani y., Dikman N.3 1Dept. of Ob/Gyn, Padeh Med. Ctr., Poria, 2Dept, of Pediatrics, the Galilee Med. Ctr., 3The Unit for Evaluation & Advancement of Teaching Introduction: Traditionally, the teaching of values has been held secondary to transfer of knowledge to medical student, and was expected to emerge as a byproduct. Currently, many teachers express the desire to deal with moral and ethical dilemmas as central tools for shaping the future practitioners. Values and knowledge education (VAKE) uses dilemmas as a pivot for the active acquisition of knowledge by students. Students split into groups by initial stiding as Tor [*] and [*] against ^{**} in a given dilemma, which calls them to find together evidence, supporting their siding. This active search serves to provide the opportunity for active learning. We combined elements from the now widespread TBL. Interfold (team Dased learning) and VAKE to form teaching units in the clinical dilerkship comparison to generic TBL. Am: To compare the usefulness and acceptance by medical students of these combination teaching units in the clinical dilerkship cares there is any piloted and avantage to the combination method sand were asked to fil in knowledge tests as well as opinion questionnaires regarding the method of teaching. The tests and the opinion charts were compared by statistical tests as applicable. Results: Knowledge tests inclared an advantage to the combination teaching unit dially dilemmas. Conclusion: Our new method, combining VAKE with TBL should be implemented, as appropriate, during clinical clerkships. Yakir Lidani Medical student Phone: 052230847 Email: Yakiridani@gmail.com
Tatyana	Levinas	Long-term outcomes of staged non-oulprit lesions percutaneous coronary intervention for multivessel disease in patients presenting with ST-segment elevation myocardial infarction
worood	sirhan	Towards molecular characterization of pancreatic exocrine and endocrine cells. Worod Sirhan and Ron Piran, Bar Ilan University, Faculty of Medicine Arm & Backgrounci: Recently researchers showed that by ectopic administration of two morphogens, pancreatic acinar cells (that normally exist in large quantities), transdifferentiate into functional, glucose-responsive, insulin-secreting β-like cells. While these findings shock the Islet-cell community, the initial acinar to β-cell conversion was low and except of a few rare reports, most animals remained diabetic. In order to increase the acinar to β-cell conversion process, one needs to understand what makes an cainar cell. Despite of their importance, acinar cells fish have been poorly studies mainly because of the prevailing characterization methodology. We intend to study what differentiate acinar from β-cells, and use these findings in the future to explore ways to stabilize β-cells in diabetes patients . Methods: To find the differences between acinar and, β-pancreatic endocrine cells we propose to characterize these cell populations, isolate and collect the both different pancreatic cell-type populations from murine samples by using laser capture microdissection technology (leica LMD7), and characterize their proteomic and transcriptomic properties. Results: More than 5,000 cells from each population were gathered in different vials. Cell population were delivered to our collaborators at the Weizmann Institute for proteomic and transcriptomic analysis. 972-264-4899 (microid sithan @ine, biu ac.il wind with with sith ang live, biu ac.il wind with with with sith ag live, biu ac.il wind with with with with ag live, biu ac.il
worood	sirhan	capture microdissection technology (leica LMD7), and characterize their proteomic and transcriptomic properties. Results: More than 5,000 cells from each population were gathered in different vials. Cell population were delivered to our collaborators at the Weizmann Institute for proteomic and transcriptomic analysis. 054-6073601 :

Adi	Eshel	Fecal Microbiota Transplantation Using Orally Administered Capsules for the Treatment of Steroid Resistant and Steroid Dependent Intestinal Acute Graft vs. Host Disease. A. Eshelt, I. Youngster2, M. Gevä, I. Sharon, A. Nagler3, R. Shouval3, O. Koren1 1 Azrieli Faculty of Medicine, Barlian University, Stefd, Israel. 2 Assaf Hardefn Medical Center, Israel. 3 The Division of Hematology and Bone Marrow Transplantation, Chaim Sheba Medical Center, Ramet Gan, Israel 4 MIGAL Galilee Research. Institute, Kinyat Shmona, Israel. Background: Steroid-resistant (SR) Intestinal acute graft versus host disease (aGVHD) is a devastating complication of allogeneic hematopoietic stem cell transplantation. Preliminary reports suggest that fecal microbiota transplantation (FMT) administered through a nasogastric tube or colonoscopy may be an effective treatment. We report the results of a pilot study using FMT in capsules to treat SR or steroid dependent (SD) intestinal aGVHD. Participants received a course of 30 frazen capsules produced from healthy urrelated donors over two consecutive days. FMT course was repeated from the same or a different donor if needed. Fecal samples were collected at different time points and DNA was purified for 16S rRNA and metagenomic sequencing. Results: 16S rRNA sequencing of stool samples revealed bacterial domination (i.e. occupation of al least 40% of the microbiota by a single taxor) of Escherichia col in 4 out of 7 patients prior to FMT, with a major reduction following therapy. FMT was associated with the introduction of new bacterial species and increased bacterial diversity in the patient's stool. Metagenomic and 16S rRNA sequencing of blood culture samples ruled out FMT as the source of bloodstream influctions (Patient 17). Conclusion: We are the first to demonstrate the use of orally administered FMT for treatment of aGVHD. The capsules were well telerated and no treatment related severe adverse events were observed. Two out of seven patients attained complete response foll
zeinab	usman	Protein kinase A (PKA) plays critical roles in neuronal function that are mediated by different regulatory (R) subunits. Deficiency in either the RIß or the RIß subunit results in distinct neuronal phenotypes. Although RIß contributes to synaptic plasticity, it is the least studied isoform. Using isoform-specific antibodies, we generated high-resolution large-scale immunchistochemical mosaic images of mouse brain that provided global views of several brain regions, including the hippocampus and cerebelum. The isoforms concentrate in discrete brain regions, and we were able to zon-in to show distinct patterns of subcellular localization. RIß is enriched in dendrites and co-localizes with MAP2, whereas RIß is concentrated in ason. Using correlated light and electron microscopy, we confirmed the mitochondrial and nuclear localization of RIß in cuttured neurons. To show the functional significance of nuclear localization, we demonstrated that downregulation of RIß, but not of RIß, decreased CREB phosphorylation. Our study reveals how PKA isoform specificity is defined by precise localization.
nicole	palant	Protein kinase A (PKA) plays critical roles in neuronal function that are mediated by different regulatory (R) subunits. Deficiency in either the RIβ or the RIIβ subunit results in distinct neuronal phenotypes. Although RIβ contributes to synaptic plasticity, it is the least studied isoform. Using isoform-specific antibodies, we generated high-resolution large-scale immunohistochemical mosaic images of mouse brain that provided global views of several brain regions, including the hippocampus and cerebelum. The isoforms concentrate in discrete brain regions, and we were able to zoom-in to show distinct platterns of subcellular localization, RI¢ is enriched in dentrifies and co-localizes with MAP2, whereas RII¢ is concentrated in advected light and electron microscopy, we confirmed the mitochondrial and nuclear localization of RI¢ is not rol RI0, but created CREB phosphorylation. Our study reveals how PKA isoform specificity is defined by precise localization.
Atara	Uzan-Yulzari	Neonatal antibiotic exposure: the influence on the gut microbiota The establishment and development of the bacterial population during early life have been found to be strongly affected by several factors such as delivery mode, diet and antibiotic exposure. Early life antibiotic exposure causes afferations in the gut microbiota and has also been reported to be associated with the risk of chronic disease including inflammatory bowel disease (IBD), overweight, and asthma. During recent years antibiotics administration has increased dramatically, and it has become the most commonly used drugs in pediatrics in western countries. The long-term impact of neonatal antibiotic exposure remains poorly understood. The current study aim was to examine the impact of neonatal antibiotic daministration on gut microbiota up to 24 months from the exposure time compared to control infants. Bacterial populations from fecal samples of antibiotic treated and control infants has been analyzed using 16S rRNA and whole genome shotgun sequencing. In addition, we performed fecal microbiota transplantation (FMT) to germ- free mice from all docruter infants in order to further test the microbiotic charges and their impact on growth.
ariela	rosenblum	Abstract: Post-Traumatic Stress Disorder (PTSD) is an anxiety disorder that typically develops following exposure to traumatic events. Following the traumatic event some individuals develop Symptoms that cause significant distress or impairment in social, occupational, or other functioning, negatively affecting quality of life. Participation in satisfying daily activities has a direct positive influence on health perception, personal welfare and quality of life. However, there is not enough research on the relationship between PTSD, participation and quality of life. Dijectives: 1. To investigate whether there are differences in levels of participation in daily activities and quality of life among individuals with PTSD and health perception, personal welfare and quality of life. Dijectives: 1. To investigate the correlation between PTSD symptoms, participation in evely file among individuals with PTSD and health perception in daily activities and quality of life. Mosever, there is not enough research on the relationship between PTSD symptoms, participation in evely and participation in daily activities and quality of life. Dijectives: 1. To investigate the correlation between PTSD symptoms, participation in evely diffe. Dijective power of PTSD symptoms and participation in daily activities on the perception of quality of life. Measurements: (1) sociodemographic questionnaire; (2) Post Traumatic Stress Disorder Symptom Scale (PSS-SR); (3) The Peritraumatic Dissociative Experiences Questionnaire. Belf Report (PDEO-SR); (4) Activity card sort (ASS); (5) The word health organization quality of life (WHOOQL-BREF) questionnaire. Results: A significant difference was found between the two research or groups regardments. The isome individual activities of ally line; and 2. Jow PTSD symptoms.
Ari	Meerson	microRNAs as a functional link between obesity and cancer Obesity is a risk factor for several cancer types, suggesting shared molecular mechanisms. To test the hypothesis that microRNAs play and important role in this molecular cross-talk, we used microarrays, RNA-seq and qRT-PCR to identify cancer-relevant microRNAs that respond to metabolic hormone signaling in cultured cells and/or to metabolic changes in human subjects, and studied the upstream regulation and downstream effects of these candidate microRNAs. Thus, we previously reported that miR-221 was elevated in the fat lissue of obese subjects, but downregulated by leptin and TNFc in cultured adipcoytes. MiR-221 directly downregulated the angiogenesis-promoting transcription factor ETS1. In cultured colon cancer cells, we found that miR-4443 was upregulated by leptin and insulin in a MEK1/2-dependent manner. MiR-4443 overapression decreased invasion and proliferation, and directly downregulated by cell in cancers. We also reported that the serum levels of miR-122 (a turnor-suppressive pathway and increase cancer risk. Supporting this notion, the miR-4443 locus is frequently deleted in cancers. We also reported that the serum levels of miR-122 (a turnor-suppressive pathway and increase cancer risk. Supporting this notion, the miR-4443 locus is frequently deleted in cancers. We also reported that the serum levels of miR-122 (a turnor-suppressive but there also invessive) address down regulated of metAbolicus is frequently deleted in cancers. We also reported that the serum levels of miR-122 (a turnor-suppressive pathers, which many contribute to bower cancer risk. Recently, we showed a stronger down-regulation of miR-10b in the turnors of the obes breast cancer patients, as opposed to the lean. In ductal but not lobular turnors, significant inverse correlations were observed between the turnor levels of miR-10b and the mRNA levels of cancer-relevant target genes SRSF1, PIEZO1, MAPER1, COXN2A, PTS-3 and TRA2B, as well as turnor grade. Suppression of miR-10