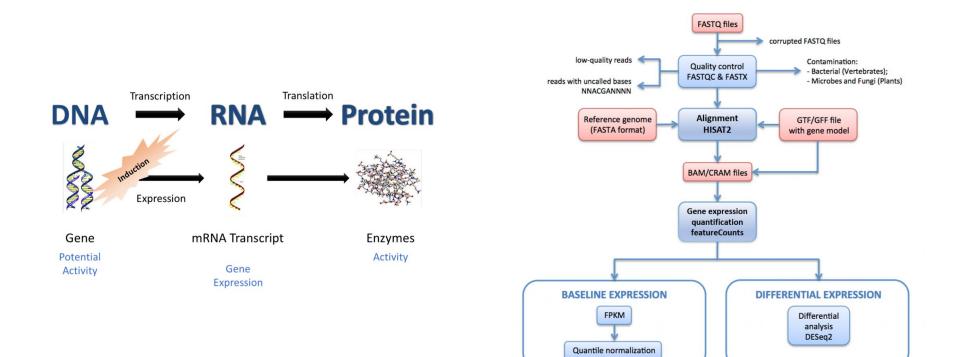
Bora Öden Past Works and Abroad Experience

Mersin University - Faculty of Medicine

Summer 2022: SciLifeLab - Mardinoğlu Group / Stockholm

SciLifeLab



July 2022 - Proteomics Literature Review and Analysis

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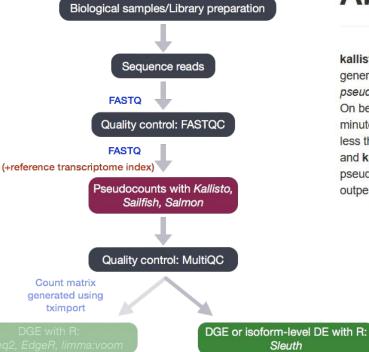
Proteomics Reporting 🕁 🙆 🗠

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	Α	В	С	D	E	F	G	Н	1	_
			Protein name	Related Disease	Brief Explanation	Up/Down Regula		Sample Type		_
_			Insulin-like growth factor-binding protein 5		IGF8P5 was overexpressed in High grade tumors.	Upregulated	16729015			
_				Breast cancers	IGFBP5 was found to be significantly up-regulated in lymph node metas		17651454	mRNA		
				Lung Cancer	Low serum levels of IGFBP5 also predicted poor recurrence-free surviva		21945224	Serum		
				Malignant Lung Cancer	This manuscript, similarly, demonstrated highly significant (p < 0.001) lo		35198099	Plasma		
				Crohn's disease	Our results indicate that serum IGFBP-5 concentrations were lower in C		24379630	Serum		
				Diabetes Mellitus	IGFBP-5 levels were markedly lower in both diabetic groups (Type 1, 22		9795371	Serum		
	PEDF	P36955	Pigment epithelium-derived factor	Acanothosis Nigricans	Subjects with acanthosis nigricans (n = 10) showed greater plasma leve		22288782	Plasma		
				Age-related Macular degeneration (Dry form)	A significant decrease in the PEDF plasma level in patients with the dry		23346798	Plasma		
				Age-related Macular degeneration (Wet form)	In the wet AMD group, a strong positive correlation between VEGF and		23346798	Plasma		
				Chronic Kidney Disease	PEDF levels were closely associated with CKD and were significantly hig		21819721	Plasma		
				Kidney Fibrosis	After multivariable adjustment, higher levels of plasma CDH11, SMOC2		34051265	Plasma		
				Cardiometabolic Disorders	PEDF have been shown to increase in patients with visceral obesity, inst		23844817	Serum		
				Hepatocellular carcinoma	Serum PEDF and MMP-9 were higher in the study group than that in th		27748324	Serum		
				Preeclampsia	In the discovery phase (200 women), we found that antiangiogenic PEI		30527117	Blood		
				Diabetic Nephropathy	Over 2-years, higher serum PEDF levels predicted advanced nephropath		31434620	Serum		
				Metabolic Syndrome	Caucasian individuals with components of metabolic syndrome had sign		20087951	Serum		
				Metabolic Syndrome	Both CTRP-3 and PEDF concentrations were increased in subjects with r		22837306	Plasma		
				Melanocytic Tumors	We found the significantly frequent and intense expression of PEDF in h	Upregulated	16422173	IHC		
				Coronary Artery Disease	CONCLUSIONS Our study showed that plasma PEDF levels were significa-	a Downregulated	29574467	Plasma		
				Diabetes Mellitus Type 2	Serum PEDF in Type 2 diabetic men was cross-sectionally associated with	t Upregulated	24560422	Serum		
				Endometriosis	We detected lower levels of serum PEDF in women with endometriosis	Downregulated	22051848	Serum		
				Osteogenesis imperfecta Type 4	Circulating PEDF was undetectable in all 12 patients with OI type VI but	Downregulated	22669302	Serum		
				Heart Failure	The risk of a clinical event increased with concentrations of the antiang	i Upregulated	20435653	Plasma		
				Gastric Cancer	The serum PEDF level in the GC group was significantly higher than that	t Upregulated	31089953	Serum		
					Lower PEDF expression was related to higher tumor grade but not stage	e Downregulated	21292512			
	8			Alzheimer's Disease	From our data it appeared that two proteins, serpin F1 (pigment epithe	l Downregulated	21136851	Plasma		
				Coronary Plaque	While a higher level of PEDF may be more useful for predicting a higher	Upregulated	21921365	Plasma		
				Non-Small Cell lung cancer	PEDF in lung tumor tissues was associated with a significantly shorter s	u Downregulated	16596284			

August 2022: RStudio, DeSeq2, Kallisto Analysis



About

kallisto is a program for quantifying abundances of transcripts from bulk and single-cell RNA-Seq data, or more generally of target sequences using high-throughput sequencing reads. It is based on the novel idea of pseudoalignment for rapidly determining the compatibility of reads with targets, without the need for alignment. On benchmarks with standard RNA-Seg data, kallisto can quantify 30 million human reads in less than 3 minutes on a Mac desktop computer using only the read sequences and a transcriptome index that itself takes less than 10 minutes to build. Pseudoalignment of reads preserves the key information needed for quantification, and kallisto is therefore not only fast, but also as accurate as existing quantification tools. In fact, because the pseudoalignment procedure is robust to errors in the reads, in many benchmarks kallisto significantly outperforms existing tools. kallisto is described in detail in:

R Studio

Spring 2023 / Erasmus at University of Pisa Faculty of Medicine

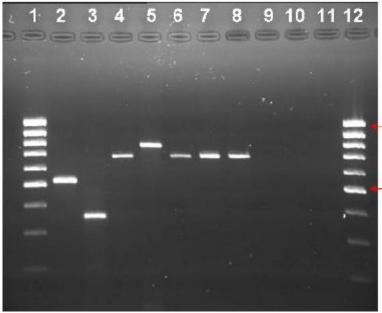


Summer 2023: Universitätsklinikum Ulm

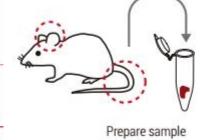


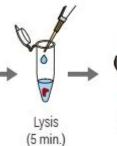
UNIVERSITATS KLINIKUM ulm

Regenotyping with PCR



Simple Protocol









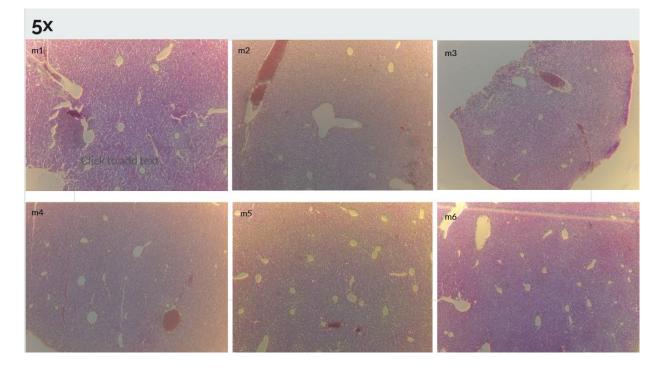
Prepare PCR mix

Run PCR

Cell culture of mice macrophages



Mice Livers Histological Examination and Presentation



link to my presentation

Summer 2024: Universitätsklinikum Carl Gustav Carus Dresden

Universitätsklinikum Carl Gustav Carus DIE DRESDNER.



Attended outpatient clinical sessions and inpatient ward visits



the end.

thank you for your attention.