14th International Workshop on Resistance to Thyroid Hormone

Scientific Program

Wednesday, March 25, 2020

1.30pm - 2.00pm	Welcome Coffee/Tea			
2.00pm – 2.30pm	Plenary Lectu Moderator:	re 1 Douglas Forrest		
	Speaker:	Val Galton "Thyroid Hormone Action: an Historical Perspective		
2.30pm – 4.30pm	TRANSPORTERS			
	Moderator:	Samuel Refetoff		
	Speakers:	Ana Montero-Pedrazuela (Guadano-Ferraz lab)		
		"New insights on the neuropathology of MCT8 deficiency"		
		Steffen Mayerl (Heuer lab)		
		"Impact of TH transporter deficiency on hippocampal function in mice"		
		Lior Appelbaum		
		"Modeling disorders of thyroid hormone transporters in zebrafish"		
		Gad Vatine		
		"From BBB-Chip to BBB-targeted gene therapy"		
4.30pm – 6.00pm	THYROID HORMONE SIGNALLING AND REGULATION			
	Moderator:	Yoshiharu Murata		
	Speakers:	Nilhan Gunhanlar (Visser lab)		
		"iPSC derived neural cells as a model to understand thyroid hormone		
		signaling in human brain"		
		Marco Medici		
		"Genetic determinants of thyroid function: novel insights and new approaches"		
		Csaba Fekete "Novel mechanisms in the regulation of the HPT axis"		

6.00pm – 7.00pm Dinner

Thursday, March 26, 2	2020			
7.00am - 8:00am	Breakfast			
8.00-10.00	HUMAN RTH ALPHA & BETA			
	Moderator:	Paolo Beck-Peccoz		
	Speakers:	Maura Agostini (Chatterjee lab)		
		"RTHalpha: Studies in anonymised and recallable genome datasets" Karn Wejaphikul (Peeters lab)		
		"Divergent gene regulation by truncating TRa1 mutants correlates with		
		the severity of the cognitive phenotype in patients"		
		Manassawee Korwutthikulrangsri		
		"Mosaicism as an important cause for missing THRB gene mutations in nonTR-RTH"		
		Carolina Marques Chaves (Anselmo lab)		
		"Resistance to thyroid hormone beta is associated with an increase in		
		hepatic fat measured by transient elastography (FibroScan [®]) with controlled attenuation parameter (CAP)"		
10.00am – 12.00pm	T3 TARGET TISSUES			
	Moderator:	Sheue-yann Cheng		
	Speakers:	Vanessa De Oliveira (Wondisford lab)		
		"TR tagged mice"		
		Tatiana Fonseca (Bianco lab)		
		"Regulation of liver chromatin accessibility by Dio2"		
		Douglas Forrest		
		"Transcriptional regulation by TRb in endocrine and sensory systems"		
		Anne van der Spek (Boelen lab)		
		"Thyroid hormone action in innate immune cells"		
12.00pm – 1.00pm	Lunch			
1.00pm – 2.30pm	NEW MOLECULAR MECHANISMS OF T3 ACTION			
	Moderator:	Gregory Brent		
	Speakers:	Beatriz Romartinez-Alonso (Schwabe lab)		
		"Structural and functional insights into the molecular behavior of		
		dominant negative mutant TRalpha receptors"		
		Cho Rong Han (Cheng lab) "Novel genetic models to dissect RTHa in		
		zebrafish"		
		Megan Ritter (Hollenberg lab)		
		"New insights into corepressor function in vivo"		
2.30pm – 4.00pm	NEW T3 SIGN	ALING PATHWAYS		
	Moderator:	Frederic Flamant		
	Speakers:	Daniela Geist (Moeller lab)		
		"Canonical versus non-canonical TR action"		
		Laurent Sachs		
		"Network analysis and epigenetic analysis of T3 action"		

Guo Huang

"Molecular Control of Heart Regeneration"

4.00pm – 6.00pm	TISSUE REPAIR	
	Moderator:	Tony Hollenberg
	Speakers:	Cristina Luongo (Salvatore lab)
		"Role of type 2 deiodinase in muscle stem cells"
		Davide Komla-Ebri & Andrea Pollard (Williams lab)
		"TH regulation of tissue maintenance and repair in the skeleton"
		Meredith Hartley (Scanlan lab)
		"CNS-Penetrating thyromimetics for myelin repair"
		Hongwei Ma (Ding lab)
		"Thyroid hormone and retinal degeneration"

6.00pm – 7.00pm Dinner

Friday, March 27, 2020		
7.00am - 8:00am	Breakfast	
8.00-10.00	DEIODINASES Moderator: Speakers:	Balasz Gereben Ulrich Schweizer "Towards structure and mechanism of Dio1 and Dio2" Monica Franca (Refetoff lab) "Identification of DIO1 gene mutations in humans" Federica Marelli (Persani lab) "Phenotypes of secisbp2 mutations in Zebrafish" Alexandra Dumitrescu "Long term effects SBP2 deficiency"
10.00am – 12.00pm	METABOLISM Moderator: Speakers:	Peter Kopp Eveline Bruinstroop (Yen lab) "Hepatic deiodinase expression and activity modulate NASH progression" Annunziata Gaetana Cicatiello (Dentice lab) "Type III deiodinase over-expression in muscle induces metabolic switches thereby influencing systemic energy metabolism" Yan-Yun Liu (Brent lab) "THRA sumoylation modifies fat cell differentiation and proliferation" Karine Gauthier (Flamant lab) "TR function in brown adipose tissue"
12.00pm – 1.00pm	Lunch and free afternoon	
2.00pm	Bus departs to the town of Carmel Bus departs to vineyards in the Carmel valley	
6.00pm	Trip ends at Asilomar	
7.30pm – 9.00pm	Dinner	
	7.00am - 8:00am 8.00-10.00 10.00am - 12.00pm 12.00pm - 1.00pm 2.00pm 6.00pm	8.00-10.00 DEIODINASES Moderator: Speakers: 10.00am - 12.00pm METABOLISM Moderator: Speakers: 12.00pm - 1.00pm Lunch and free 2.00pm Bus departs to Bus departs to Bus departs to Bus departs to

Saturday, March 28, 2	020	
7.00am - 8:00am	Breakfast	
8.00am - 10.00am	DEVELOPMENT Moderator: Speakers:	Juan Bernal Duncan Bassett "Alternate splicing of Thra and mammalian development" Arturo Hernandez "Congenital abnormalities resulting from fetal thyrotoxicosis" Yuki Shibata (Shi lab) "TR knockout leads to premature adult tissue development while liganded TR is required for larval tissue degeneration" Pieter Vancamp (Demeneix lab) "TH action during developmental neurogenesis"
10.00am – 12.00pm	NEW INVESTIG Moderator: Speakers:	ATORS Krishna Chatterjee Helge Muller-Fielitz "Tanycytes and HPT axis" Rebecca Ölkrug (Mittag lab) "Role of Maternal T3/TRb Signaling in Fetal Programming" Jose Avila-Mendoza (Denver lab) "Kruppel-like factors are effectors of thyroid hormone signaling" Mara Laslo (Hanken lab) "Expression patterns of T3-response genes in direct- and indirect- developing frog limbs" David Sharlin "Thyroid hormone and Igf1 in the developing brain" Jeff ChenChe Huang "The sexually dimorphic action of thyroid hormone on the adrenal cortex"
12.00pm	Lunch Dack	

12.00pm Lunch Pack

12:30pm - 4:00pm Bus to San Francisco