



## 16th International Workshop on Resistance to Thyroid Hormone and Thyroid Hormone Action

*Ponta Delgada Public Library and Regional Archive  
Azores-Portugal  
September 1-4, 2026*

### Scientific Program

**Tuesday, Sept 1<sup>st</sup>**

**9:00 - 10:30 Session 1: NEURONAL ACTIONS**

(Moderator: Sylvie Remaud)

9:00 – 9:15 **Robert Opitz** (PI)

*Epigenomic effects of TH action in human cortical organoids*

9:15 – 9:30 **Sergio Escamilla** (PI: Federico Salas-Lucia)

*Role of DIO3 and dependent T3 action in neuronal differentiation, maturation, and identity selection*

9:30 – 9:45 **Juliana Santos Romeo** (PI: Ricardo Sousa)

*Understanding How thyroid hormone signals via the TRs to Hypothalamic PVN Neurons*

9:45 – 10:30 Discussion: Opitz, Salas-Lucia, Sousa

**10:30 – 11:00 Posters, coffee & tea**

**11:00 - 13:00 Session 2: INJURY AND REPAIR**

(Moderator: Graham Williams)

11:00 – 11:15 **Randy Stout** (PI)

*TH-related genes in astrocytes and neurons in the context of TBI, illustrating the model of intercellular gene regulation.*

11:15 – 11:30 **Makoto Nakamura** (PI: Huang Guo)

*Thyroid hormone regulation of vascular regeneration*

11:30 – 11:45 **Caterina Miro** (PI: Monica Dentice)

*The role of thyroid hormone in muscle physiology*

11:45 – 12:00 **Sheue-Yann Cheng** (PI)

*Novel Functions of TR $\alpha$ 1 in Cancer*

12:00 – 13:00 Discussion: Stout, Guo, Dentice, Cheng

**13:00 – 14:00 Lunch**

**14:00 – 14:45 PLENARY LECTURE**

(Moderator: Robert Opitz to introduce)

**Hans Clevers – Organoids**

**14:45 – 15:45 Session 3: TRANSPORTER in the BRAIN**

(Moderator: Heike Heuer)

14:45 – 15:00 **Aliza Avitan** (PI: Gad Vatine)

*MCT8 regulates functional and molecular maturation of human spinal motor neurons.*

15:00 – 15:15 **Andrea Alcaide Martin** (PI: Steffen Mayerl)

*Impact of thyroid hormone transporters Mct8/Oatp1c1 on hippocampal neurotransmission and seizure susceptibility*

15:15 – 15:45 Discussion: Vatine, Mayerl

**15:45 – 16:15 Posters, coffee & tea**

**16:15 - 18:15 Session 4: MECHANISM**

(Moderator: Krishna Chatterjee)

16:15 – 16:30 **Greg Brent** (PI)

*Desumoylated TR $\alpha$  protects against hepatic liver fat deposition in mice on a high fat diet*

16:30 – 16:45 **Susmita Dutta** (PI: Samuel Refetoff)

*Transgenerational transmission of RSTH in humans is mediated through DIO3 methylation*

16:45 – 17:00 **Jasmin Schmidt** (PI: Sebastian Hones and Duncan Bassett)

*G-quadruplexes and their role in THRA splicing*

17:00 – 17:15 **Megan Ritter** (PI)

*Determining How TR CoRepressors Determine Chromatin Accessibility to Mediate Target Gene Regulation.*

17:15 – 18:15 Discussion: Brent, Refetoff, Bassett, Ritter

**19:00 Opening Reception**



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### Wednesday, Sept 2<sup>nd</sup>

#### 8:30 - 10:30 **Session 5: THRB defects**

(Moderator: Peter Kopp)

8:30 – 8:45 **Maura Agostini** (PI: Krishna Chatterjee)  
*Basic/Molecular aspect of RTH.*

8:45 – 9:00 **Lars Moeller** (PI)  
*THRB ADMD*

9:00 – 9:15 **Douglas Forrest** (PI)  
*Recessive photoreceptor defects in a family with a novel THRB mutation*

9:15 – 9:30 **Carla Moran** (PI: Krishna Chatterjee)  
*Skeletal phenotype of RTHbeta.*

9:30 – 10:30 Discussion: Chatterjee, Moeller, Forrest

#### 10:30 – 11:00 Posters, coffee & tea

#### 11:00 - 13:00 **Session 6: TRANSPORTERS**

(Moderator: Steffen Mayerl)

11:00 – 11:15 **Boyka Markova** (PI: Heike Heuer)  
*Novel insights from studying tissue-specific thyroid hormone transporter deficient mice*

11:15 – 11:30 **Matthijs Freund** (PI: Marcel Meima)  
*Functional testing of potential novel thyroid hormone transporters informed by a large-scale thyroid function genome-wide association study*

11:30 – 11:45 **Beatriz Muñoz Fálder** (PI: Ana Guadaño Ferraz)  
*Updates on MCT8 deficiency preclinical therapies*

11:45 – 12:00 **Roy Weiss** (PI)  
*Prenatal treatment of MCT8*

12:00 – 13:00 Discussion: Heuer, Meima, Guadaño Ferraz, Weiss

#### 13:00 – 14:00 Lunch

#### Wednesday Afternoon      Furnas tour and dinner



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Thursday, Sept 3<sup>rd</sup>

### 8:30 - 10:30 Session 7: DEIODINASES and SELENOPROTEINS

(Moderator: Arturo Hernandez)

8:30 – 8:45 **Ulgu Arslan Van Bergen** (PI: Edward Visser)

*Molecular mechanisms underlying neurological phenotype in SBP2 deficiency.*

8:45 – 9:00 **Victor Vacarel** (PI: Sylvie Remaud)

*DIO2/neural stem cell*

9:00 – 9:15 **Jesus Moreno** (PI: Alex Dumitrescu)

*Cell specific characterization of low bone mass phenotype in SECISBP2 deficiency*

9:15 – 9:30 **Tommaso Porceli** (PI: Domenico Salvatore)

*Deiodinases in Thyroid Tumorigenesis*

9:30 – 10:30 Discussion: Visser, Remaud, Dumitrescu, Salvatore

**10:30 – 11:00 Posters, coffee & tea**

### 11:00 - 13:00 Session 8: LIVER and METABOLISM

(Moderator: Becky Taub)

11:00 – 11:15 **Alcantara Lopez** (PI: Jens Mittag)

*Liver Metabolism*

11:15 – 11:30 **Xinru Zhang** (PI: Eveline Bruinstroop)

*The role and regulation of Type 1 deiodinase by HNF4A in liver*

11:30 – 11:45 **Yingfu Chen** (PI: Eva Wirth)

*Deiodinases in hepatic energy metabolism*

11:45 – 12:00 **Maria Ponte** (PI: João Anselmo)

*Liver-derived proteins CD5L, Ferritin and Ceruloplasmin in individuals with Resistance to Thyroid Hormone Beta and unaffected family members*

12:00 – 13:00 Discussion: Mittag, Bruinstroop, Wirth, Anselmo

**13:00 – 14:00 Lunch**

### 14:00 – 15:30 Session 9: TH in DEVELOPMENT

(Moderator: Hans Clevers)

14:00 – 14:15 **Yun-Bo Shi** (PI)

*Complementary and additive functions of TR $\alpha$  and TR $\beta$  in regulating larval cell death and adult stem cell development during Xenopus intestinal metamorphosis*

14:15 – 14:30 **Duncan Bassett** (PI)

*TR $\alpha$  alternative splicing regulates a “mammalian metamorphosis”*

14:30 – 14:45 **Graham Williams** (PI)

*Developmental consequences of targeted disruption of TR $\alpha$  alternative splicing in vivo*

14:45 – 15:30 Discussion: Shi, Bassett, Williams

**15:30 – 16:00 Posters, coffee & tea**

### 16:00 - 17:00 Session 10: BEHAVIOUR

(Moderator: Jens Mittag)

16:00 – 16:15 **Logan Douglas** (PI: Arturo Hernandez)

*Effects of type 3 deiodinase deficiency on reward systems and associated behaviors.*

16:15 – 16:30 **Soledad Báñez López** (PI)

*How thyroid hormones regulate oxytocin pathways and mood-related brain function*

16:30 – 17:00 Discussion: Hernandez, Báñez López

### 17:00 – 17:45 PLENARY LECTURE

(Moderator: Leonidas Duntas)

**Rebecca Taub – Resmetirom**

**19:00 Farewell Dinner**



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**Friday, Sept 4<sup>th</sup>**

### **8:30 - 10:30 Session 11: INFAMMATION and AGING**

(Moderator: Monica Dentice)

8:30 – 8:45 **Matt Zupan** (PI: Meredith Hartley)

*Thyroid hormone action plays a neuroprotective role during demyelination*

8:45 – 9:00 **Esmee Hoen** (PI: Anita Boelen)

*The role of T3 on macrophage function*

9:00 – 9:15 **Flavia Fonseca Bloise** (PI: Tania Ortiga Carvalho)

*Thyroid Hormones action on muscle is age dependent*

9:15 – 10:00 Discussion: Hartley, Boelen, Ortiga Carvalho

**10:00 – 10:30 Posters, coffee & tea**

### **10:30 - 12:30 Session 12: PHARMACOLOGY**

(Moderator: Edward Visser)

10:30 – 10:45 **Irene Campi** (PI: Luca Persani)

*Management with and without TRIAC of pediatric RTHbeta cases*

10:45 – 11:00 **Tom Scanlan** (PI)

*Mechanism of action of elunetirom (ABX-002), a brain-penetrating thyroid hormone agonist*

11:00 – 11:15 **Rajas Sane** (PI: Joseph Koehrle)

*High-throughput screening for selective inhibitors of five targets involved in local provision of thyroid hormones – DIOs 1,2,3, DEHAL1 & MCT8*

11:15 – 11:30 **Richárd Sinkó** (PI: Petra Mohácsik)

*Interferences of tissue thyroid hormone action and amiodarone treatment in vivo*

11:30 – 12:30 Discussion: Persani, Scanlan, Koehrle, Mohácsik

**12:30 – 13:30 Lunch vs boxes**

**14:00 Departure / ETA meeting**



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### Posters:

- Giudita Rurale / Luca Persani** - Cardiomyocytes from RTHbeta iPSCs: functional studies and effects of treatment
- Korcan Demir / Krishna Chatterjee** - RTHalpha on a large cohort of cases in Turkey
- Benai Paponette / Carla Moran** - Detailed cardiac phenotyping in a small group of patients with RTH beta.
- Anne van der Spek / Tony Hollenberg** - Thyroid Hormone Acts Independently of The Thyroid Hormone Receptor Beta in Hepatocytes to Improve Systemic Insulin Sensitivity
- Edda Wilberg / Robert Opitz** - Thyroxine action and metabolism in early human corticogenesis
- Zehra Sevindik / Lars Moeller** - THRA mutation, its biology and physiological consequences
- Frederica Marelli / Luca Persani** - Behavioral and neuromuscular studies in zebrafish SBP2 mutant
- Amanda Charest / Randy Stout** - Rescue of nanoscale defects in hypothyroid cardiomyocytes with T3 treatment and the role of TH in cardiomyocyte remodeling
- Floor van der Most / Edward Visser** - MCT8 deficiency & Triac
- Ali Javeed / Edward Visser** - Thyroid hormone metabolism
- Maarten Bukman / Edward Visser** - Resistance to Thyroid Hormone
- Karine Gauthier** - Consequence of early and transient postnatal hypothyroidism on metabolism in the adults
- Nimisha Krishnan / Federico Salas-Lucia** - Thyroid hormone regulation of microglial function during developmental neurogenesis
- Ana Lopez Marti / Edward Visser** - Effects of T3 in human iPSC-based neurons
- Nabaa Ali / Alexandra Dumitrescu** – RTH beta mosaicism
- Edina Varga / Csaba Fekete** - Regulation of TRH neurons of the PVN by TRH. Does ultrashort feedback loop exist in the regulation of hypophysiotropic TRH neurons?
- Maria Angela de Stefano / Domenico Salvatore** – D2 mediates epithelial-stromal crosstalk in thyroid cancer.