

The 11<sup>th</sup> Royan International E-Summer School on



# Interdisciplinary Approaches in Diabetes Research

**POSTPONED**

Date: 16-18 December 2020



## Subjects:

- Novel cell-based therapies for diabetes
- Bioengineering of pancreatic organoids
- Islet transplantation
- Genomics in diabetes
- Genetic models for diabetes
- Stem cells-derived beta cells
- Diabetes and COVID19





### 1<sup>st</sup> day of E-Summer school (December 16, 2020)

Time	Title	Lecturer
8:00-8:05	Holy Quran and Iranian National Anthem	
8:05-8:10	Research Deputy of Iran Ministry of Health and Medical Education	Farid Najafi
8:10-8:15	Research Deputy of Academic Center for Education, Culture and Research (ACECR)	Mohammad Reza Pour Abedi
8:15-8:30	An introduction to 11 <sup>th</sup> Royan summer school	Yaser Tahamtani (Iran)
08:30-08:50	Generating human stem cell-derived insulin-producing cells: a pathway to maturation	Francis C. Lynn (Canada)
08:50-09:00	Q&A	
09:00-09:20	The potential of big data in diabetes management	Mohammad Yahya Vahidi (Iran)
09:20-09:30	Q&A	
09:30-10:00	Break	
10:00-11:00	<b>Workshop</b> Isolation and purification of rat pancreatic islets	Ensiyeh Hajizadeh (Iran)
11:00-11:15	Q&A	
14-16	School student session (in persian)*	

### 2<sup>nd</sup> day of E-Summer school (December 17, 2020)

Time	Title	Lecturer
10:30-10:50	Regenerative medicine products for diabetes: regulatory framework for commercialization	Hamidreza Aghayan (Iran)
10:50-11:00	Q&A	
11:00-11:20	Pancreas organoids a window into human development	Anne Grapin Botton (Germany)
11:20-11:30	Q&A	
11:30-11:50	Diabetes remission through insulin-secretion by islet non-beta cells	Pedro L. Herrera (Switzerland)
11:50-12:00	Q&A	
12:00-12:30	Break	
12:30-13:30	<b>Workshop</b> Cell Encapsulation Engineering Methods for Diabetes	Mohammad Kazemi Ashtiani (Iran)
13:30-13:45	Q&A	
14-15:30	School student session (in persian)*	

### 3<sup>rd</sup> day of E-Summer school (December 18, 2020)

Time	Title	Lecturer
10:30-10:50	Metabolic syndrome and COVID19	Massoud Vosough (Iran)
10:50-11:00	Q&A	
11:00-11:20	Zebrafish pancreas as a model for development and disease	Dirk Meyer (Austria)
11:20-11:30	Q&A	
11:30-11:50	Engineering immune response against transplanted biomaterials in diabetes cell therapy	Mohammad Kazemi Ashtiani (Iran)
11:50-12:00	Q&A	
12:00-12:30	Break	
12:30-13:30	<b>Workshop</b> Generation of a transgenic zebrafish model for T1D drug screening	Mohammad Rezaei (Iran)
13:30-13:45	Q&A	



14-15:30

**School student session (in persian)\***

\*This event is specially designed for school students in Persian language. Registration could be done through <https://www.royan-edu.ir/the-11th-royan-international-e-summer-school/>