# FRONTIERS IN CARDIOVASCULAR BIOLOGY

FIFTH CONGRESS OF THE ESC COUNCIL ON BASIC CARDIOVASCULAR SCIENCE



# CARDIAC • DISCOVERY • TRANSLATION • VASCULAR

ESC Working Groups on: Atheroscierosis and Vascular Biology - Cardiac Cellular Electrophysiology - Cellular Biology of the Heart Coronary Pathophysiology and Microcirculation - Development, Anatomy and Pathology - Myocardial and Pericardial Diseases Myocardial Function - Thrombosis

Sister Societies: European Vascular Biology Organisation - International Society for Heart Research European Section European Council for Cardiovascular Research - European Society for Microcirculation













# **POST CONGRESS REPORT**

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### 1. General Information

### 1.1 Quick facts & figures

The FCVB 2018 congress took place in Vienna, Austria from 20-22 April 2018.

### √ 618 Total participation

604 Delegates 12 Exhibitors 2 Press

- √ 41 countries represented
- ✓ **110 Faculty** members for **186 roles** in the programme
- √ 41 Scientific Programme sessions

32 Scientific Sessions incl. 4 special sessions 9 Abstract-based Sessions

- √ 3 Lecture rooms
- √ 485 abstracts submitted & 452 abstracts accepted
- √ 0 Industry sponsored sessions

O Satellite Symposia

O Sessions supported with an unrestricted educational grant

### 1.2 Introduction

**Frontiers in CardioVascular Biology 2018** is the fifth Meeting of the Council on Basic Cardiovascular Science (CBCS) of the European Society of Cardiology (ESC).

### 1.3 History

### **FCVB 2010**

16 - 19 July 2010 Berlin, Charité University Campus

### **FCVB 2012**

30 March - 1 April 2012 London, Imperial College

### **FCVB 2014**

4 - 6 July 2014

Barcelona, Palau de Congresos de Catalunya

#### **FCVB2016**

8 - 10 July 2016

Florence, Firenze Fiera

### 1.4 Committees

### Core Scientific Programme Committee

Prof. Johannes Wojta (AT) - Chairperson

Lina Badimon (ES)

Peter Ferdinandy (HU)

Kurt Huber (AT)

Akos Koller (HU)

Jeremy Pearson (UK)

Tomasz Guzik (PL)

Johannes Waltenberger (DE)

### Programme Committee - WG and Sister Societies Coordinators

ISHR, European Section

European Council for Cardiovascular Research (ECCR)

European Vascular Biology Organisation (EVBO)

WG Myocardial and Pericardial Diseases

WG Atherosclerosis and Vascular Biology

WG Cardiac Cellular Electrophysiology

WG Cellular Biology of the Heart

WG Coronary Pathophysiology and Microcirculation

WG Development, Anatomy and Pathology

European Society for Microcirculation (ESM)

**WG Myocardial Function** 

**WG** Thrombosis

Derek Hausenloy Gianpaolo Rossi

Josef Dulak

Pablo Garcia Pavia

Imo Hoefer

**Godfrey Smith** 

Peter Ferdinandy

Dirk Duncker

**Robert Kelly** 

**Axel Pries** 

Jean-Luc Balligand

Johann Wojta

#### **Programme Committee**

Lina Badimon (ES)

Christoph Binder (AT)

Barbara Casadei (UK)

Elisabetta Cerbai (IT)

Jozef Dulak (PL)

Peter Ferdinandy (HU)

Margarethe Geiger (AT)

Irene Lang (AT)

Alexander Niessner (AT)

Ingrid Pabinger (AT)

Jeremy Pearson (UK)

Bruno Podesser (AT)

Klaus Preissner (DE)

Ingebjorg Seljeflot (NO)

Karen Sipido (BE)

Gemma Vilahur (ES)

Johannes Waltenberger (DE)

Christian Weber (DE)

# 1.5 Congress dates and location

20 - 22 April 2018 Vienna, Austria

### 1.6 Venue & building overview

### **Austria Centre access:**

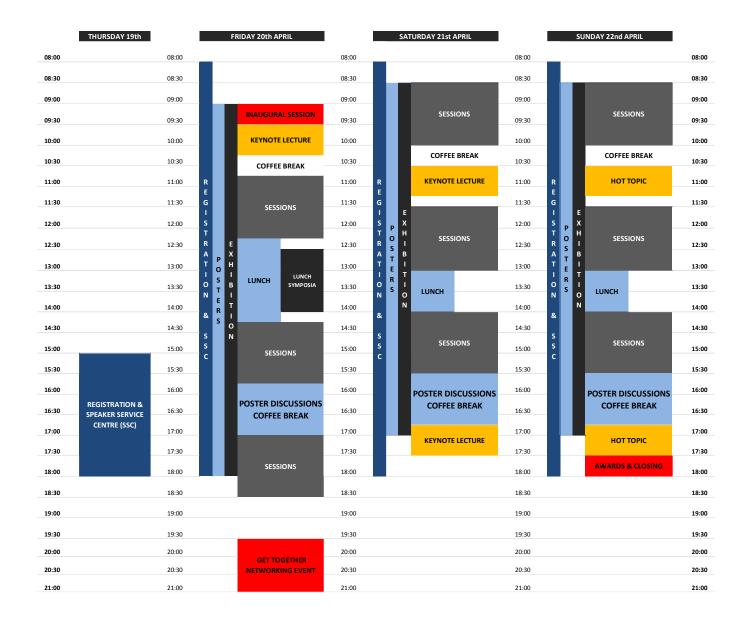
- Reasonably close to the city centre
- The building is not visible from the metro station
- Need some signage to help delegates coming with metro
- There was another big event on the same building

### **Congress layout:**

- Level -2
- Layout of the level less convenient than Level 0 (where we held a congress in 2017)
- The 3 lectures rooms were far from Hall D (Exhibition, Posters, Catering)
- Deserted areas: long corridors, empty Registration, empty foyers
- Nice building, well maintained
- Very nice hall with wooden floor. Furniture provided by the venue



### 1.7 Schedule



# 2. Scientific programme

# 2.1 General information

3 Lecture rooms - 1 Poster area - 41 sessions

### 28 Pre-arranged sessions

- 18 Featured Symposia
- 5 Main Sessions
- Workshop
- Symposium

### 9 Abstract-based sessions

- Abstract Sessions (2 Young investigator awards + 1 Late Breaking science)
- 6 Poster Sessions (3 Poster sessions and 3 LBS Poster sessions)

### **4 Special Sessions / Special Events**

- Scientists of Tomorrow early career session
- Journal Session
- Opening session
- Awards and Closing session

### **Faculty Members**

- 186 Roles
- 57 roles of Chairperson
- 92 roles of Speaker
- 37 "Other" roles (Judge + discussant)

### 2.2 Faculty

### FCVB 2018 Session

Number of Roles held in the FCVB Programme

186 roles distributed as shown below

### **Number of Faculty invited for FCVB Programme**

110 Faculty members involved in the FCVB 2018 Programme

### **Activities**

Faculty roles distributed for FCVB programme	2014	2016	2018
Chairperson	51	67	57
Discussant	41	114	29
Judge Abstract	10	7	8
Speaker	87	96	92
Grand Total	196	284	186

### **Role distribution**

Total	2014	2016	2018
1 role	77	53	66
2 roles	25	31	24
3 roles	8	16	11
4 roles	6	14	6
5 roles	-	5	3
6 roles	6	4	-
8 roles	-	1	-
Total faculty	119	125	110

# **Faculty Gender Overview**

Faculty Gender	Total
Female	38 (35%)
Male	72 (65%)
Total	110

# By country

Host Country\*

Country	Total
Australia	1
Austria	13*
Belgium	2
Denmark	1
France	7
Germany	18
Hungary	4
Italy	8
Netherlands	14
Norway	2
Poland	2
South Africa	1
Spain	3
Sweden	2
Switzerland	3
United Kingdom	20
United States of America	9

# **Top Country Representation**

\*Host country

Country	FCVB 2014	FCVB 2016	FCVB 2018
United Kingdom	24	23	20
Germany	17	15	18
Netherlands	12	12	14
Austria	5	2	13*
United States of America	13	6	9
Italy	9	30*	8
France	6	10	7
Hungary	2	2	4
Spain	20*	6	3
Switzerland	2	6	3
Belgium	3	5	2
Norway	2	1	2
Poland	1	1	2
Sweden	1	4	2
Australia			1
Denmark			1
South Africa			1
Canada		1	
Israel	1	1	
Luxembourg	1		
Grand Total	119	125	110

# 2.3 Sessions

All sessions

Abstract	Abstract Session	1
	Poster Session	6
	Young Investigator Awards Abstracts	2
	Total Abstract sessions	9
<b>Pre-arranged</b>	Featured Symposium	18
	Main Session	5
	Special Event	2
	Special Session	2
	Symposium	2
	Workshop	3
	Total Pre-arranged sessions	32
	Grand Total	41

# **Session by Topic**

	Main topic	Total
36	Basic Science	4
36.1	Basic Science - Cardiovascular Development and Anatomy	1
36.2	Basic Science - Cardiac Biology and Physiology	6
36.3	Basic Science - Cardiac Diseases	8
36.4	Basic Science - Vascular Biology and Physiology	3
36.5	Basic Science - Vascular Diseases	6
36.5.10	Basic Science - Vascular Diseases: Biomarkers	1
36.99	Basic Science - Other	12

# Sessions by lecture room by day

<b>Room Location</b>	Room	Friday 20 April	Saturday 21	Sunday 22	Grand
	Capacity		April	April	Total
Hall G	440	6	5	6	17
Hall K1	220	3	3	3	9
Hall K2	220	3	3	3	9
Poster Area		2	2	2	6
<b>Grand Total</b>		14	13	14	41

### Session comparison FCVB 2014 - 2016 - 2018

### Number of sessions by type - ALL sessions

Process Type	Туре	2014	2016	2018
Abstract	Abstract Session (Late Breaking science)	0	1	1
	Moderated Posters	0	3	0
	Poster Session	3	4	6
	Young Investigators Awards Abstracts	1	2	1 0
<b>Abstract Total</b>		4	10	9
Pre-arranged	Featured Symposium	21	21	18
	Main Session	5	5	5
	Special Event	2	2	2
	Special Session	2	1	2
	Symposium	3	4	2
	Workshop	0	0	3
Pre-arranged Total		33	33	32
Industry	Satellite Symposium	1	0	0
<b>Grand Total</b>		38	43	41

# **Number of Sessions by type**

The charts below do not include poster, Moderated posters, special events and industry sessions

Process Type	Туре	2014	2016	2018
	Abstract Session (Late-Breaking science)	0	1	1
Abstract	Young Investigator Award abstracts	1	2	2
	Total abstract sessions	1	3	3
<b>Pre-arranged</b>	Featured Symposium	21	21	18
	Main Session	5	5	5
	Special Session	2	1	2
	Symposium	3	4	2
	Total Pre-arranged sessions	31	31	27
	Workshop			3
Total		32	34	33

# **Number of Sessions per day**

Day	2014	2016	2018
Friday	10	11	11
Saturday	11	12	11
Sunday	11	11	11
<b>Grand Total</b>	32	34	33

# 2.4 Session occupancy report

# Occupancy FCVB scientific sessions only Attendance per time slot per day

DATE	Start time	Hall G - capacity 440 pax	Hall K1 - capacity 220 pax	Hall K2 - capacity 220 pax	Grand Total ALL rooms
Friday 20 April	9:00	440			440
	9:30	440			440
	10:45	130	120	160	410
	12:30	110			110
	14:15	70	220	105	395
	17:00	120	120	80	320
TOTAL		1310	460	345	2115
Saturday 21 April	8:30	93	75	65	233
	10:30	220			220
	11:30	65	100	131	296
	14:00	95	115	75	285
	16:45	130			130
TOTAL		603	290	271	1164
Sunday 22 April	8:30	80	60	65	205
	10:30	250			250
	11:30	65	130	65	260
	14:00	55	75	55	185
	16:45	300			300
	17:30	300			300
TOTAL		1050	265	185	1500
GRAND TOTAL		2963	1015	801	4779

# Session by occupancy brackets

Occupancy Bracket	Total
50-100	16
100-200	12
200-300	5
More 300	2

# List of sessions - Attendance by day

Session Title	Туре	Topic	Session quality	Occupancy @ Start	Occupancy MAX	Occupancy max %	Bracket	Session Capacity	Session Date	Session Start Time
Understand the genome to cure cardiac diseases	Featured Symposium	36.2 - Basic Science - Cardiac Biology and Physiology	4	70	130	30%	100- 200	440	20/04/ 2018	10:45
Crosstalk between adipocytes, the heart and coronary vessels	Featured Symposium	36.2 - Basic Science - Cardiac Biology and Physiology	4	70	105	48%	100- 200	220	20/04/ 2018	14:15

Controversies in cell therapies for myocardial infarction and heart failure	Symposium	36.3 - Basic Science - Cardiac Diseases		70	120	27%	100-200	440	20/04/ 2018	17:00
The inflammatory road to heart failure	Featured Symposium	36.3 - Basic Science - Cardiac Diseases	4	100	220	100%	200- 300	220	20/04/ 2018	14:15
New strategies for cardioprotection to prevent heart failure	Featured Symposium	36.3 - Basic Science - Cardiac Diseases	5	35	80	36%	50-100	220	20/04/ 2018	17:00
Mechanical forces in plaque progression	Featured Symposium	36.4 - Basic Science - Vascular Biology and Physiology	5	60	120	55%	100- 200	220	20/04/ 2018	17:00
Novel insights in signaling pathways in endothelial dysfunction	Featured Symposium	36.5 - Basic Science - Vascular Diseases	5	90	160	73%	100- 200	220	20/04/ 2018	10:45
Smooth muscle cell plasticity in atherosclerosis: an update	Featured Symposium	36.5 - Basic Science - Vascular Diseases		30	120	55%	100- 200	220	20/04/ 2018	10:45
Keynote lecture - CRISPR-Cas: biology, mechanisms and relevance	Main Session	36.99 - Basic Science - Other		440	440	100%	more 300	440	20/04/ 2018	9:30
CRISPR-Cas9 Genome Editing Bootcamp	Workshop	36 - Basic Science		75	110	25%	100- 200	440	20/04/ 2018	12:30
Young Investigator Award session - Vascular	Young Investigator Awards Abstracts	36.99 - Basic Science - Other	5	50	70	16%	50-100	440	20/04/ 2018	14:15
Inaugural session	Special Event	36.99 - Basic Science - Other		440	440	100%	more 300	440	20/04/ 2018	9:00
Novel fluorescent sensors to detect intracellular signalling	Workshop	36.2 - Basic Science - Cardiac Biology and Physiology	5	25	75	34%	50-100	220	21/04/ 2018	8:30
Extracellular matrix and cardiac remodelling	Featured Symposium	36.3 - Basic Science - Cardiac Diseases	5	80	115	52%	100- 200	220	21/04/ 2018	14:00
The dynamic epigenome - Programming the cardiac myocyte in development, health and disease.	Featured Symposium	36.3 - Basic Science - Cardiac Diseases	5	30	65	30%	50-100	220	21/04/ 2018	8:30
Developmental origins of adult cardiovascular disease	Featured Symposium	36.1 - Basic Science - Cardiovascular Development and Anatomy	5	50	75	34%	50-100	220	21/04/ 2018	14:00

Extracellular vesicles for cardiovascular repair	Featured Symposium	36.4 - Basic Science - Vascular Biology and Physiology	5	45	93	21%	50-100	440	21/04/ 2018	8:30
Translational aspects in metabolic disorders and micro- and macrovascular pathology	Symposium	36.5 - Basic Science - Vascular Diseases	5	78	131	60%	100- 200	220	21/04/ 2018	11:30
The challenge of genomics: how to filter your data	Featured Symposium	36.5 - Basic Science - Vascular Diseases		30	100	45%	100- 200	220	21/04/ 2018	11:30
Scientists of Tomorrow early career session	Special Session	36.99 - Basic Science - Other	4	60	65	15%	50-100	440	21/04/ 2018	11:30
Keynote lecture - Cardiac reprogramming and regeneration	Main Session	36.2 - Basic Science - Cardiac Biology and Physiology	5	185	220	50%	200- 300	440	21/04/ 2018	10:30
Hot topic - Translating the promise of GWAS to clinical benefit	Main Session	36.99 - Basic Science - Other	5	115	130	30%	100- 200	440	21/04/ 2018	16:45
Young Investigator Award session - Cardiac	Young Investigator Awards Abstracts	36.99 - Basic Science - Other	5	70	95	22%	50-100	440	21/04/ 2018	14:00
Molecular basis for arrhythmias and beyond	Featured Symposium	36.2 - Basic Science - Cardiac Biology and Physiology	5	40	75	34%	50-100	220	22/04/ 2018	14:00
Uncoordinated signalling within the diseased cardiomyocyte: potential role of beta 3 adrenergic receptors	Featured Symposium	36.2 - Basic Science - Cardiac Biology and Physiology	4	55	65	30%	50-100	220	22/04/ 2018	11:30
Extracellular vesicles in cardiovascular disease: hope and pitfalls	Workshop	36.3 - Basic Science - Cardiac Diseases	4	50	80	18%	50-100	440	22/04/ 2018	8:30
Cardiotoxicity of drugs - New concepts	Featured Symposium	36.3 - Basic Science - Cardiac Diseases		40	65	30%	50-100	220	22/04/ 2018	8:30
Exercise and the coronary circulation in health and disease	Featured Symposium	36.4 - Basic Science - Vascular Biology and Physiology	5	30	55	25%	50-100	220	22/04/ 2018	14:00
Extracardiac adipocytes - Their impact on cardiovascular disease	Featured Symposium	36.5 - Basic Science - Vascular Diseases	5	25	60	27%	50-100	220	22/04/ 2018	8:30

The role of the innate and the adaptive immune system in cardiovascular pathologies	Featured Symposium	36.5 - Basic Science - Vascular Diseases	5	75	130	59%	100- 200	220	22/04/ 2018	11:30
How to publish your Cardiovascular Research?	Special Session	36.99 - Basic Science - Other	5	50	65	15%	50-100	440	22/04/ 2018	11:30
Hot topic - Biomarkers and cardiovascular risk prediction	Main Session	36.5.10 - Basic Science - Vascular Diseases: Biomarkers	5	140	250	57%	200- 300	440	22/04/ 2018	10:30
Keynote lecture - Linking microbiota to human disease	Main Session	36.3 - Basic Science - Cardiac Diseases	4	50	300	68%	200- 300	440	22/04/ 2018	16:45
Late Breaking Trial session	Abstract Session	36.99 - Basic Science - Other	4	40	55	13%	50-100	440	22/04/ 2018	14:00
Awards and closing session	Special Event	36.99 - Basic Science - Other		250	300	68%	200- 300	440	22/04/ 2018	17:30

# List of top attended sessions

Session Title	Туре	Topic	Session quality	Occupancy @ Start	Occupancy	Occupancy max %	Bracket	Session Capacity	Session Date	Session Start Time
Keynote lecture - CRISPR-Cas: biology, mechanisms and relevance	Main Session	36.99 - Basic Science - Other		440	440	100%	more 300	440	20/04/ 2018	9:30
Inaugural session	Special Event	36.99 - Basic Science - Other		440	440	100%	more 300	440	20/04/ 2018	9:00
Keynote lecture - Linking microbiota to human disease	Main Session	36.3 - Basic Science - Cardiac Diseases	4	50	300	68%	200- 300	440	22/04/ 2018	16:45
Awards and closing session	Special Event	36.99 - Basic Science - Other		250	300	68%	200- 300	440	22/04/ 2018	17:30
Hot topic - Biomarkers and cardiovascular risk prediction	Main Session	36.5.10 - Basic Science - Vascular Diseases: Biomarker s	5	140	250	57%	200- 300	440	22/04/ 2018	10:30
The inflammatory road to heart failure	Featured Symposiu m	36.3 - Basic Science - Cardiac	4	100	220	100%	200- 300	220	20/04/ 2018	14:15

		Diseases								
Keynote lecture - Cardiac reprogrammin g and regeneration	Main Session	36.2 - Basic Science - Cardiac Biology and Physiology	5	185	220	50%	200- 300	440	21/04/ 2018	10:30
Novel insights in signaling pathways in endothelial dysfunction	Featured Symposiu m	36.5 - Basic Science - Vascular Diseases	5	90	160	73%	100- 200	220	20/04/ 2018	10:45
Translational aspects in metabolic disorders and micro- and macrovascular pathology	Symposiu m	36.5 - Basic Science - Vascular Diseases	5	78	131	60%	100- 200	220	21/04/ 2018	11:30

Top attended sessions - special sessions (inaugural & closing) and the Keynote lectures.

# List of least attended sessions

Session Title	Туре	Topic	Session quality	Occupancy @ Start	Occupancy	Occupancy max %	Bracket	Session Capacity	Session Date	Session Start Time
Exercise and the coronary circulation in health and disease	Featured Symposiu m	36.4 - Basic Science - Vascular Biology and Physiolog	5	30	55	25%	50-100	220	22/04/2 018	14:00
Late Breaking Trial session	Abstract Session	36.99 - Basic Science - Other	4	40	55	13%	50-100	440	22/04/2 018	14:00
Extracardiac adipocytes - Their impact on cardiovascular disease	Featured Symposiu m	36.5 - Basic Science - Vascular Diseases	5	25	60	27%	50-100	220	22/04/2 018	8:30
The dynamic epigenome - Programming the cardiac myocyte in development, health and disease.	Featured Symposiu m	36.3 - Basic Science - Cardiac Diseases	5	30	65	30%	50-100	220	21/04/2 018	8:30
Uncoordinate d signalling within the diseased cardiomyocyt e: potential role of beta 3 adrenergic receptors	Featured Symposiu m	36.2 - Basic Science - Cardiac Biology and Physiolog Y	4	55	65	30%	50-100	220	22/04/2 018	11:30

Cardiotoxicity of drugs - New concepts	Featured Symposiu m	36.3 - Basic Science - Cardiac Diseases		40	65	30%	50-100	220	22/04/2 018	8:30
Scientists of Tomorrow early career session	Special Session	36.99 - Basic Science - Other	4	60	65	15%	50-100	440	21/04/2 018	11:30
How to publish your Cardiovascular Research?	Special Session	36.99 - Basic Science - Other	5	50	65	15%	50-100	440	22/04/2 018	11:30

### 2.5 Abstracts

### Overview by all status - comparison with previous years

This chart does not include Late-breaking science abstracts as they have been submitted after

	2014	2016	2018
Submitted	698	522	485
Not validated & Withdrawn	13	9	10
Accepted	657	446	452
Rejected	28	28	23
Withdrawn after acceptance	56	23	29
Acceptance rate	94%	85%	93%
No show	79	35	36

### **Composition of the sessions**

Sessions assignment: number of abstract for each session type

Session Type	2014	2016	2018
YIA Abstract presentation	6	12	12
Oral abstract presentation (Late Breaking science)	N/A	6	6
Featured Presentation	63	63	51
Poster Presentation	588	359	389
Moderated posters	N/A	22	N/A
Grand Total	657	462	458

### By Topic

Main topic	Abstracts
36.1 - Basic Science - Cardiovascular Development and	23
Anatomy	
36.2 - Basic Science - Cardiac Biology and Physiology	89
36.3 - Basic Science - Cardiac Diseases	176
36.4 - Basic Science - Vascular Biology and Physiology	73
36.5 - Basic Science - Vascular Diseases	85
36.99 - Basic Science - Other	6
Grand Total	452

### **Abstracts by country**

Country	Accepted	Accepted	Presented	No show	<b>Grand Total</b>

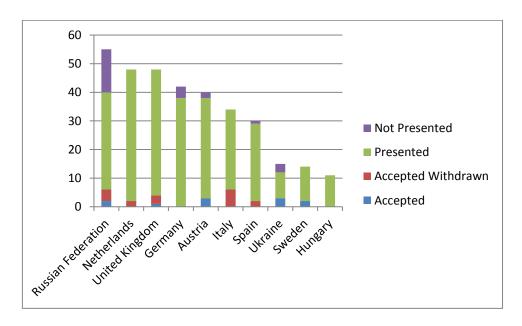
		Withdrawn			
Algeria			1		1
Australia		1	1		2
Austria	3		35	2	40
Belarus		2			2
Belgium			7	1	8
Brazil			1		1
Bulgaria				1	1
Canada			1		1
Chile			1		1
China People's Republic of	3			2	5
Czech Republic			4		4
Egypt	1		1	3	5
Estonia			1		1
Fiji				1	1
Finland			7		7
France		2	8		10
Germany			38	4	42
Greece			1		1
Hungary			11		11
India		1			1
Indonesia	1	_			1
Ireland	-		2		2
Israel		1	_		1
Italy		6	28		34
Japan			3		3
Korea Republic of			3		3
Lebanon		1			1
Lithuania		_	1		1
Moldova Republic of		1	_		1
Myanmar		1			1
Netherlands		2	46		48
New Zealand		-	5		5
Norway			2		2
Poland			9		9
Portugal		1	3		4
Qatar		-	1		1
Romania			2	1	3
Russian Federation	2	4	34	15	55
Singapore	1	7	1	15	2
Slovak Republic			4		4
South Africa		1	2		3
Spain		2	27	1	30
Sweden	2	-	12	<u> </u>	14
Switzerland			7		7
Taiwan ROC			1		1
Turkey			2		2
Ukraine	3		9	3	15
United Arab Emirates	3		1		1
United Kingdom	1	3	44		48
United States of America		3	3	2	5
Omiteu States of Afficia			<u> </u>		<u> </u>

<b>Grand Total</b>	17	29	370	36	452

Highest rate of No Show - Russia, China, Egypt

# Top ten countries

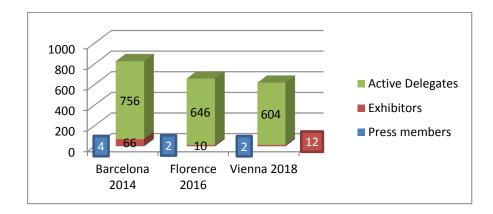
Country	Accepted	Accepted Withdrawn	Presented	Not Presented	Grand Total
Russian Federation	2	4	34	15	55
Netherlands		2	46		48
United Kingdom	1	3	44		48
Germany			38	4	42
Austria	3		35	2	40
Italy		6	28		34
Spain		2	27	1	30
Ukraine	3		9	3	15
Sweden	2		12		14
Hungary			11		11



# 3. Registration & attendance

# 3.1 Overview & Comparison with previous years

	2014	2016	2018	+/-
	Barcelona	Florence	Vienna	2016/2018
Active delegates	756	646	604	-42
Press members	4	2	2	0
Exhibitors	66	10	12	+2
TOTAL	826	658	618	-40



# 3.2 Breakdown of attendance by country of origin

Top 10 in 2018:

Rank	Country	2014 Barcelona	2016 Florence	2018 Vienna
1	United Kingdom	106	92	84
2	Germany	81	58	72
3	Netherlands	55	57	69
4	Austria	11	14	61
5	Italy	61	145	50
6	<b>Russian Federation</b>	20	22	37
7	Spain	90	44	31
8	France	43	36	24
9	Sweden	11	8	23
10	Hungary	36	9	20

# 3.3 Breakdown of attendance by region of origin

Region	2014	2016	2018
	Barcelona	Florence	Vienna
Africa (non ESC)	7	5	3
Asia Pacific	28	31	26
ESC	678	593	561
North America	39	18	13
South & Central America	8	1	2
TOTAL	760	648	606

# 4. Industry

# 4.1 Exhibition

The Exhibition at FCVB 2018 was centrally located and well positioned in between the poster and the catering area. This year a new type of package was proposed to the exhibitors to facilitate their preparation







Company	2010	2012	2014	2016	2018
AD Instruments GmbH	9				
Athera Biotechnologies AB		9			
Aurora Scientific Inc		9	9		
Biomedica Medizinprodukte					4
BioVendor					4
Cairn Research Ltd		9			
Daiichi Sankyo Europe					4
Data Sciences International		9			
European Society of Cardiology	9	9	9	9	9
European Society of Microcirculation				5	
European Vascular Biology Organisation				5	
IonOptix Europe	9	9	9	5	4
Moor Instruments		9			
Multi Channel Systems	9				
Miltenyi Biotec			9	6	
Nanion Technologies		9			
Olink Bioscience			9		
Oxford University Press	9	9	9	9	9
PeproTech					4
Philips Austria					4
PromoCell GmbH		9			
Radnoti Ltd		9	9		
Scientifica		2			
Scintica					4
Scientists of Tomorrow				5	
Seahorse Bioscience		9			
Thermo Fisher Scientific		9			
Transonic			9	5	4
Wisepress Medical Bookshop		6			
World Precision Instruments		9			
TOTAL sqm	45	134	72	49	50

# 4.2 Sponsored Sessions

No sponsored sessions @ FCVB 2018

# 4.3 Sponsorship

Company/Association	Item sponsored
Amacord	Unrestricted Educational Grants
Beckman Coulter	Unrestricted Educational Grants
Daiichi Sankyo Europe	Mobile App
Daiichi Sankyo Europe	eBlast - Pre-Congress
Medizinische Ausstellungs	Unrestricted Educational Grants
Orion Pharma	Unrestricted Educational Grants
Promega GmbH	Unrestricted Educational Grants
Technoclone Herstellung von Diagnostika	Unrestricted Educational Grants
University of Glasgow	CVR online Abstract supplement

# 5. Communication

### 5.1 *Online promotion*

- Total of 11 dedicated e-campaigns
- Campaigns with highest click-rate were related to the late fee deadline (15 March)
- Both the attendance guide and post congress survey campaigns achieved good click rates (39.12% and 36.53% respectively)

Date	Key messages	Total recipients	Unique clicks / % open
06/09/17	Discover the 5th edition: 20-22 April 2018 in Vienna-Austria	55,885	635 or 1.14%
06/10/17	Submit your abstract - reminder	39,894	481 or 1.21%
27/10/17	Abstract submission deadline extended	56,305	684 or 1.23%
14/12/17	Plan your congress and save 100 Euros	65,002	511 or 0.8%
29/01/18	Benefit from the best fee and register now	57,778	601 or 1.04%
22/02/18	<u>Late fee: deadline 15 March</u>	50,899	1,145 or 2.26%
08/03/18	Late fee registration deadline 15  March	39,508	1,018 or 2.58%
13/04/18	Your attendance check list	387	151 or 39.12%
13/04/18	Pre congress eblast	227	44 or 19.38%
20/04/18	Congress newsletter	387	61 or 15.8%
24/04/18	Post congress survey	387	141 or 36.53%

### Visibility across ESC e-newsletters and bulletins

- 10/01/18 My ESC News. Promotion of the congress grants. Deadline 10 January.
- 11/01/18 Basic Science Bulletin. Focus on early registration fee
- 31/01/18 My ESC News. Early registration deadline
- 07/02/18: My ESC News: Early registration fee deadline 8 February
- 28/02/18: My ESC News <u>Last minute registration fee deadline</u>
- 07/03/18: My ESC News <u>Late registration fee deadline 15 March</u>
- 09/04/18 CBCS Bulletin: <u>Bulletin of Events, Science and Education on Basic Science</u>
- My ESC News 18 April 2018 Access it

# **Congress Grants & Funding Opportunities**



### Frontier in CardioVascular Biology (FCVB) 2018

€600 Travel Grants to attend the congress.

Application deadline: TODAY Wednesday 10 January.

Apply now



### **NEW - Acute Cardiovascular Care 2018**

Each grant includes free congress registration and a travel allowance.

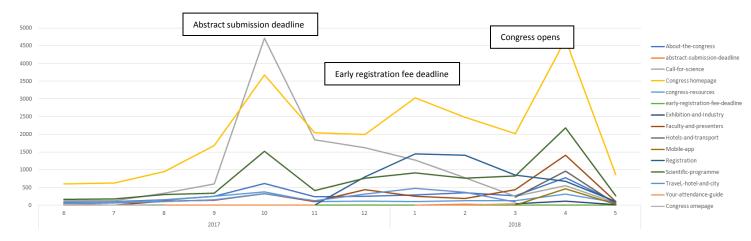
### Web adverts

- Left ads for the SP&P access on FCVB and CBSC pages
- left ads on Late breaking science submission until 16 February
- 20-22 April 2018: Home banner on escardio.org





### Web report



Row Labels	▼ Sum of Page Views
Congress homepage	24670
Call-for-science	12309
Scientific-programme	8653
Registration	5301
Faculty-and-presenters	3565
About-the-congress	3474
Travel,-hotel-and-city	2060
congress-resources	1911
Hotels-and-transport	1227
Mobile-app	486
Exhibition-and-Industry	162
Your-attendance-guide	60
abstract-submission-deadlin	e 59
early-registration-fee-deadli	ine 45
Congress omepage	40
Grand Total	64022

### 5.2 Social media

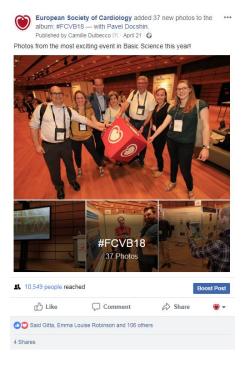
#### **Facebook**

Post Total Reach: 10,549 Post Total Impressions: 15,540

Engaged Users: 359

### **Twitter**

Use of both the main ESC Twitter account and the ESC Journals witter account  $\,$ 



# 6. Mobile App

### **Key figures**

The app was launched on 22 March. It was promoted on the main ESC Congresses app webpage.

Key figures on FCVB 2018 Mobile App

- **395 times** (-50% compared to 2016) **618 participants** (-4% compared to 2016)
- Major actions undertaken by users
  - o Access the Daily Schedule (90%)
  - o Access the Latest Messages section (77%)
  - Access the Topics/Types & Tracks list (54%)

### User behaviour regarding home menu buttons:

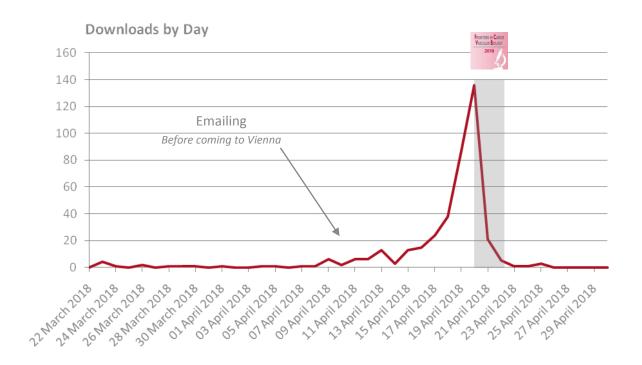
Rank	Name	Views↓	No. of users	Views per user	% of users
1	Daily Schedule	26 668	2 242	11,9	88
2	My Programme	13 554	1 207	11,2	47
3	My Congress	12 408	1 373	9,0	54
4	Latest Messages	8 048	1 765	4,6	69
5	Map - overview	6 427	1 417	4,5	56
6	Interact now	4 596	782	5,9	31
7	By Topics	3 470	1 330	2,6	52
8	By Types & Tracks	3 470	1 330	2.6	52
9	General info	2 222	1 037	2,1	41
10	Exhibition & Industry	1 372	762	1,8	30

### Most read messages

Top ten most read messages.

Rank	Message	Date sent	Views	No. of	Views	% of
				users	per user	users
1	Find out the YIA winners	22 Apr - 13:30	180	123	1,5	30
2	Wifi access codes	20 Apr - 08:30	171	147	1,2	36
3	Do you want free registration to FCVB 2020?	19 Apr - 18:00	148	116	1,3	28
4	Join the Get Together Networking Event	19 Apr - 12:00	125	93	1,3	23
	tomorrow					
5	Find out more about the Scientists of Tomorrow	12 Apr - 09:30	105	88	1,2	21
6	Don't waste time queuing on the first day!	18 Apr - 13:00	105	87	1,2	21
7	Thank you for attending!	22 Apr - 18:00	100	66	1,5	16
8	Welcome to FCVB 2018!	20 Apr - 07:30	99	83	1,2	20
9	Let others know what you thought on Twitter	20 Apr - 15:00	95	77	1,2	19
10	Last day already!	22 Apr - 08:00	92	82	1,1	20

### Downloads per day



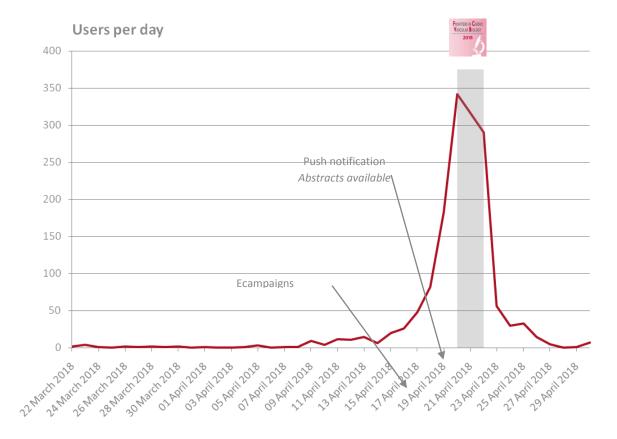
### Downloads per period

Dariad	201	.8	2016	3
Period	No. of downloads	Distribution	No. of downloads	Distribution
Pre-Congress	228	58%	536	68%
Congress Day 1	136	34%	164	21%
Congress Day 2	21	5%	42	5%
Congress Day 3	5	1%	23	3%
Post-Congress	5	1%	28	4%
TOTAL	395	100	793	-

**More than 58%** of downloads were completed before the congress has started, mostly within the pre-congress week. One can note that the downloads were quite high on congress day 1 compared to 2016.

### Users per day

This graph shows the number of active devices connected to FCVB 2018 Mobile App. One user = one device: if you use the app on your iPad and your iPhone on the same day, you will be counted twice. A user is only counted if he/she undertakes an action within the app (app launch, click of a button, access a map...)



On the most intensive day - congress day 1 - the app was used on 342 devices, representing 87% of downloads (60% in 2016). User engagement is much higher in 2018.

# 7. Delegate survey

#### Introduction

This survey was sent to 386 participants. 89 responses were collected during the 17 days the survey was open, which represents a 23.1% response rate. This response rate is considerably higher than the previous congress surveys (FCVB 2014 (18%) with 580 participants; FCVB 2016 (11%) 648 participants).

The main objective of the survey was to understand the various factors which would drive the attendees for future participations.

### **Executive Summary**

This year for the first time we asked respondents for a general overall satisfaction regarding the congress where they were given the options of 'Great', 'OK' and 'Poor'. 60.6% of respondents rated the congress as 'Great', with just 1.9% rating it as 'Poor'. All post-congress surveys in the future will include this question which will give us a common baseline to assess the future satisfaction of this and all other congresses.

The aspect of the congress with the highest satisfaction rating was the congress location itself (Vienna) with 96% of respondents rating it 'Excellent' or 'Good'. This is the highest satisfaction level we've seen for the congress location.

For the second congress running, the 'Council activities' and 'Exhibition quality' had the lowest satisfaction rating with 60% and 51% respectively of respondents rating these 'Excellent' or 'Good' which highlights that these are areas for improvement in future editions.

Respondents were most interested in 'Circulation and vascular biology'. This is commonly the topic with the greatest interest, highlighting the importance of this topic for future congresses.

Over 80% of respondents were happy using the congress app instead of a full printed final programme.

Over half of respondents have stated that they will attend the next FCVB congress with just 8% saying that they wouldn't. The remaining 40% stated 'I don't know'. This figure may be so high because the congresses are every 2 years, making it more difficult to commit so far in advance.

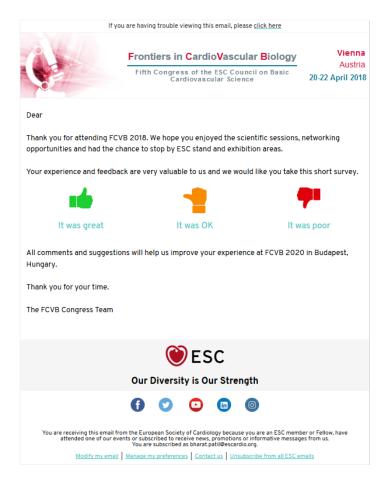
Other than word of mouth from colleagues / manager (24%), most sources of awareness (61%) were through ESC communication channels, which points to effective marketing and communication. 84% of respondents would recommend the FCVB congress to a colleague.

#### General rating from initial survey email

After analysing the sends from previous surveys, we decided to put in place a new marketing approach on the initial email calling for delegate feedback. We have also decided to send the post congress survey right at the end of the congress and have included the first question of the survey inside the email itself, to encourage readers to act.

Hence, the email had a very straightforward approach within the subject line, the style and the content, including 3 easily identifiable 'thumb' buttons for respondents to engage and share their feedback.

Once clicked they were sent to the survey directly with a thank you message encouraging them to take a few more minutes to respond few additional questions.



This new approach has given us an impressive open and click rate, with an open rate of 54.4% and a click rate of 37.1%.

This initial question gives us the general feeling of respondents concerning the EuroPrevent Congress.

It was great	It was OK	It was poor		
60.6%	22.5%	1.9%		
97	36	3		

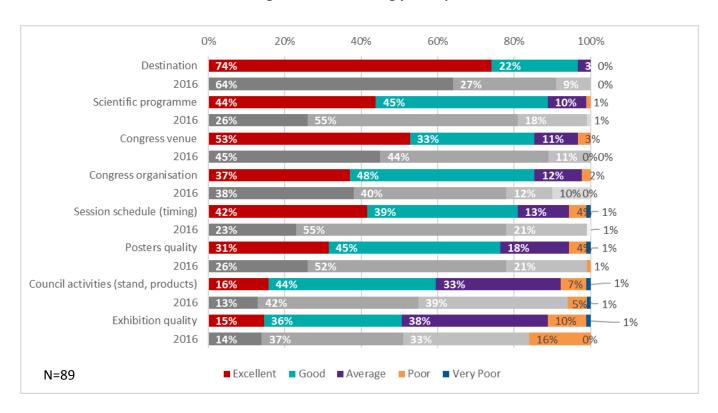
\*the remaining 15% of clicks clicked on other links within the email such as social media links etc.

Most respondents (60.6%) clicked on 'It was great' and 22.5% on 'It was OK'. Only a very small percentage of the respondents (1.9%) representing 3 people responded, 'It was poor'.

### **Delegate Interest and Satisfaction**

We asked respondents to rate different aspects of the congress. Overall, on average 78% of respondents answered 'excellent' or 'good' compared to 75% in 2016 which shows a slightly increased satisfaction rate this year.

### Please rate the following in terms of fulfilling your expectations at FCVB 2018:



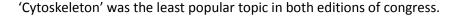
The congress destination is the aspect with the highest satisfaction rating in 2018 (96% 'excellent' or 'good'). In 2016, the congress location was also the aspect with the highest satisfaction rating.

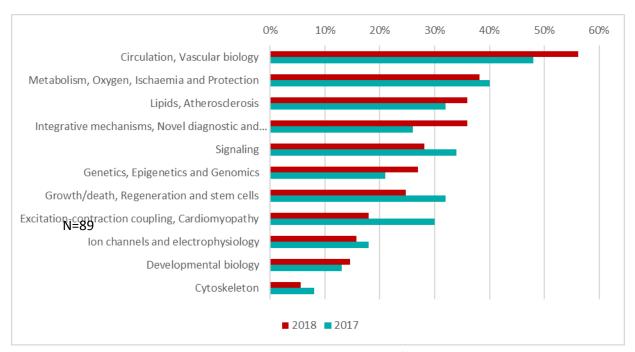
For the second congress running, the 'Council activities' and 'Exhibition quality' had the lowest satisfaction rating with 60% and 51% respectively of respondents rating these 'Excellent' or 'Good' which highlights that these are areas for improvement in future editions.

The next question asked respondents their top 3 topics of interest, which will help us plan for following congresses. It should be noted that in 2016, only 7 respondents answered this question so the statistics for that congress need to be considered in this light.

### What are your top 3 topics of interest?

We can see that 'Circulation, Vascular biology' is the most popular topic in both 2018 and 2016, and its popularity has in fact increased by 8%.



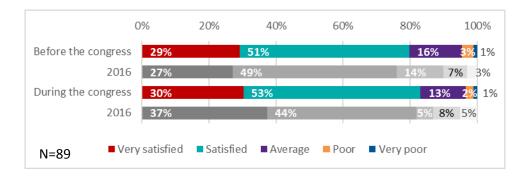


The subject with the greatest increase in popularity since 2016 is 'Integrative mechanisms, novel diagnostic and therapeutic approaches' which was chosen by 36% of respondents (compared to 26% in 2016).

The subject with the greatest decrease in popularity since 2016 is 'Excitation-contraction coupling, cardiomyopathy' which was chosen by 18% of respondents in 2018 (compared to 30% in 2016).

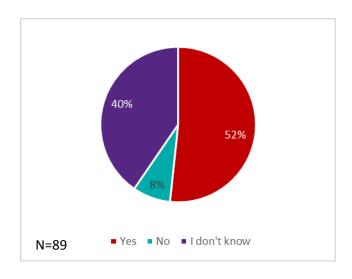
To know about the attendee's source of information through the mobile app the following question was asked, as a full final programme was not made available at FCVB 2018.

### Please rate your satisfaction level of the FCVB mobile app in preparing for the congress



As observed in the above chart, the respondents were quite happy with using mobile app as the primary source of information before and during the congress. 80% of respondents were 'very satisfied' or 'satisfied' before the congress and 83% during the congress. Both ratings are a slight improvement on 2016 ratings (76% and 81% respectively).

### Are you planning to visit the next FCVB congress in Budapest in 2020?

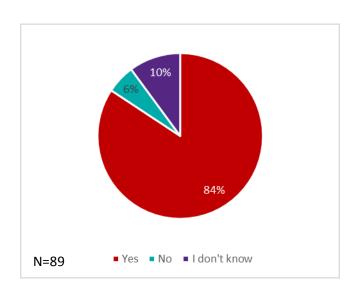


The split of responses this year is very similar with the split in 2016, with both years having 52% of respondents who said 'Yes' they would be attending the next congress.

8% of respondents said 'No' they would not be attending the next congress, compared to 10% in 2016.

The high percentage of 'I don't know' answers could be because FCVB congress only takes place every 2 years.

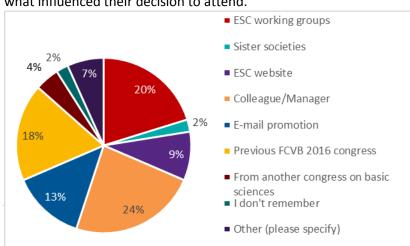
### Would you recommend FCVB to a colleague.



At 84%, there was a 9% increase in the number of respondents who would recommend FCVB congress to a colleague compared to 2016, and only a 2% increase (3 people) in the number of delegates who said that they wouldn't recommend it.

#### **Delegate Attendance Motivation**

We asked delegates the following questions to know about how delegates became aware of the congress, and what influenced their decision to attend.



# Where did you first hear about FCVB 2018?

The most common reason given was 'Colleague/Manager' (24%), which was also the given reason with the greatest growth (9%) compared to 2016 (15%)

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The least common reason given was 'Sister Societies (2%), which was also the least given reason in 2016 (2%).

40% of respondents first heard about the congress as a direct result of the ESC promotion (Previous congress, email promotion, or the ESC website).

This is a drop from 65% in 2014 but shows that we are being more successful in spreading awareness of the congress through other channels.

We then asked an open-ended question to gauge why respondents attended FCVB 2018. The responses given can be split into 3 broad categories

### Why did you decide to attend FCVB 2018?

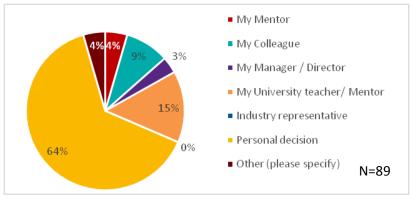
Category	Responses	%	
Science	49	62.0%	
Networking	17	21.5%	
Presenter	22	27.8%	

N = 79

The most common answer given was for the quality and diversity of the scientific programme, with 62% of respondents specifically citing this reason.

Here is a selection of the responses given:

### Who influenced your decision to attend the congress?



The most common answer was 'Personal Decision' which is the same as in 2016, despite a 5% drop compared to 2016 (69%).

The answer with the greatest growth was 'University teacher/lecturer' (15% in 2018 compared to 8% in 2016) which shows that FCVB is becoming more known and respected within educational institutions.

Conversely, the choice with the greatest decrease in responses was 'My manager/director' which could point to a lack of resources in the work sector meaning managers cannot afford the money or time for staff to attend the FCVB congress.

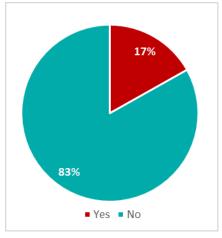
<sup>&</sup>quot;Both cardiac and vascular fields combined in one meeting"

<sup>&</sup>quot;Best congress for Basic Scientists in Cardiovascular Field. Focus on Extracellular vesicles was great."

<sup>&</sup>quot;Good overview of all hot topics in cardiovascular biology, all on one site"

<sup>&</sup>quot;Had attended previous meetings and found them useful for networking and science"

### Did you have to get approval to attend the congress?



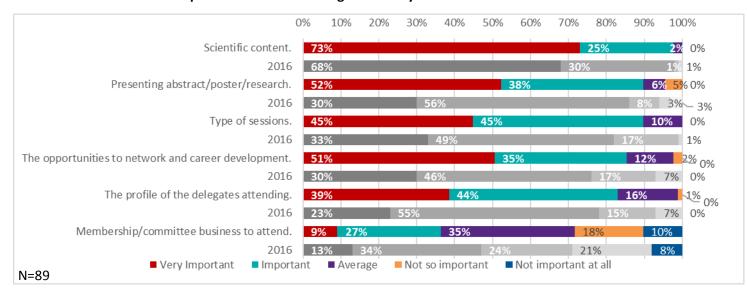
83% of the respondents needed no approval or permission but just needed to inform their managers before registering for the Congress. This is a slight increase of 2% compared to 2016.

Just 17% of respondents needed approval to register for the Congress, which is a slight decrease of 2% compared to last year (19%)

This clearly indicates that the approval factor for registrations is the least affecting factor for any decline in registrations in the future FCVB Congresses.

N=89

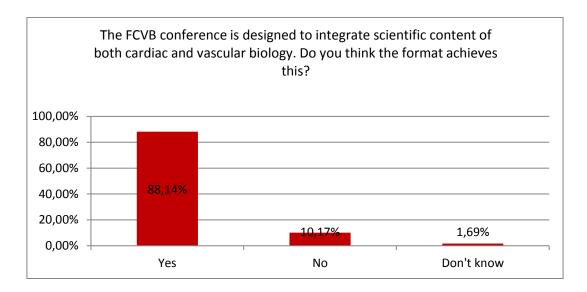
#### Please rate the importance of the following factors in your decision to attend FCVB 2018?



The top 3 factors are the same as in 2016, with 'Scientific content' being the most important contributing factor to delegates when deciding to attend FCVB. For both years, 98% of respondents have rated this as a 'very important' or 'important' reason to attend.

Every factor has increased in importance in delegate decision-making since 2016, with only 'Membership/committee business to attend' seeing an 11% drop in the percentage of respondents who see this as 'very important' or 'important'. This can be viewed positively because fewer delegates are attending because they feel they *have* to for business reasons, and so more delegates are attending for their own personal interests.

#### Perception of FCVB programme proposition:



To this question, we had 59 responses, 50 being positive and 9 being negative. Here are the 6 comments we had from respondents:

- Too many parallel sessions that separate cardiac and vascular biology.
- The topics are still poorly integrated. There are too many separate sessions at the same time, while we should try to propose sessions with unifying themes overlapping intersectoral topics.
- Diversify the speakers
- Clear focus on basic research in basic research sessions. Clinical outcome and pseudo correlations do not fit this category
- There should be parallel sessions on vascular biology on one side and myocardial biology on another, similarly to the format of combined Keystone symposia. There should be a real focus on competitive research with one keynote speaker per session; abstract sessions should be reviewed and ameliorated, similarly to what has been done for the ESC annual meeting.
- Not much on Cardiac biology has been presented!

#### FCVB Congress - young career development:

From this question, we had few comments (all listed in the table below) enabling us to consider few options:

- 6 comments are mentioning "mentoring" (or look alike) sessions
- 4 comments are mentioning "how to" sessions
- 4 comments are mentioning "career corner"
- 3 comments are mentioning "grants"
- One comment is particularly constructive: "I had very positive response regarding the career sessions but also the informal drink that was organized by the SOT. My students interacted with other young scientists and discussed both about science as well as how they try to build a career. I think that having a session during the FCVB stimulating the building of a networkt, e.g. by providing the opportunity for consortium grant between 3 young scientists and have a kind of competition during the meeting, defending their grant?"

# FCVB provides non-scientific content to help younger scientists develop their careers. In what ways could this be improved?

Perhaps with personal small tutorial sessions?

The poster sessions are well attended and indeed this is the right way to favor contacts among young and senior scientists. However, many younger scientists are not very active, they present their posters or talks (a few of them) and then sit quietly. We should introduce some "provocative" session, for example, where they listen "pros" and "cons" and than vote via smartphones...

More young speakers

I didn't see the non-scientific content! So I think this is not visible enough.

Academic advice Grant writing Guidance and advice for establishing a new lab Be more specific in the reasons applications for working groups/ travel grants are rejected

I liked the format as it was. The balance of how to write grants, assemble a team, etc. was just about right.

Consider organising one-on-one 'meet & greet' sessions between junior and senior scientists. This could be done by having senior scientists sign up as volunteers for such a meeting and then have junior scientists subsequently choose (or indicate an order of preference) which senior scientist they would like to meet for advice how to further their career.

Perhaps it is possible to convince the senior authors on posters to present them along with the younger scientists? Could make it simple for the younger students to get direct contact

Such initiative is not coming across. It should be advertised more

The non-scientific activities that have been organized during the past Congresses have been of high interest, but it is important to give them more visibility and relevance. Special attention needs to be paid to ensure that they are held in a time that ensures a high number of attendees

The program was very good. It might also cover how to sessions (paper writing, publishing, getting an own lab, funding etc.).

Small-group sessions of young scientists with a mix of young and more senior scientists.

Increased interchange of young scientists in established Research Centers.

I had very positive response regarding the career sessions but also the informal drink that was organized by the SOT. My students interacted with other young scientists and discussed both about science as well as how they try to build a career. I think that having a session during the FCVB stimulating the building of a networkt, e.g. by providing the opportunity for consortium grant between 3 young scientists and have a kind of competition during the meeting, defending their grant?

It would be interesting for people in my position (PhD student) to get more information on for example - how journals work (who are the editors and reviewers), what the major funding agencies are, etc

Further Support in Terms of mentorship, and more grants for Basic research

More interactive workshops

This is important, not only for young scientists, but also for the public and media. Including images in the various communication, contents would also help to "sell" ideas.

Meet the experts session, career planing session

Improve exchange between senior and junior scientists:, e.g. by: - meet the senior investigator corner (one day) - meet the junior investigator corner (other day) - Get together outside conference venue in a relayed atmosphere - potentially include a Science Slam

Provide workshops during the conference in fundamental techniques and knowledge in the area of vascular biology

- Including a Job Corner with display of open positions across Europe for training and research - the same but for industry positions

Information for career development and networking opportunities are well implemented.

Providing information how to get scientific budget.

-senior scientist speaking about his/her career -How to write a paper -how to prepare good slides -How to communicate to a broad public

Practical courses are realyy helpful. The CRISPr Cas Bootcamp was excellent.

Discussion session with PIs

### **FCVB Congress - Change in format**

We have asked respondents to let us know the updates of changes they were expecting in the format for the next editions of FCVB.

The majority of the comments are positive comments asking for continuity more than change. It is a great confirmation of success and enables us to acknowledge the great level of satisfaction from the previous report. Concerning the changes on format, most of the comments mention improvement of poster sessions, including more discussions for example. Also, a few comments are asking for more "rapid fire" sessions.

### Please tell us about changes to the format or content of FCVB that you would like to see in future?

no changes is necessary

As above, true integration of cardiac and vascular biology.

As I wrote, we need to exit from the standard form of most meetings, the key note lectures are very good but some sessions are not really "unforgettable"....

more sessions with young investigators

I think the actual format is good.

Don't plan the posters sessions during the coffee break. People only think about coffee and presenters are boring...

Give more time to the poster presentations/discussions

Hands-on workshops

Again, the balance between cardiac and vascular topics seemed about right to me. The poster session and the get-together gave plenty of opportunities to get in touch with other scientists.

I really like the 'small feel' of the FCVB meetings; this should be maintained. I also like very much the plenary poster sessions where drinks and snacks are available so that everyone meets regularly in between plenary and parallel lecture sessions.

Find locations that better fit the number of participants. In Vienna, everything was stretched out between the rooms and hallways. A smaller location would have been better. Maybe chose smaller cities as well to be closer to the cultural places. And better avoid ESC/HFA sites to avoid competition especially between HFA and FCVB congresses, which are often within a couple of weeks (we had this now in Vienna and Florence). I would encourage early communication about these issues within ESC/HFA, this can normally be avoided.

I like the format as it is

It is a very good conference. Keep it away of weekends and Bank Holidays. We all work and travel too much.

To give higher relevance to the poster sessions and the poster discussants

This was my first one, first a bigger sample then suggestions for change :-)

More interactive sessions. More sessions that link the pure science to the clinical work.

During this meeting, there was an overlap between vascular session and cardiac session. I understand it is difficult to take everything into account, but I would have liked it if I could have joint both vascular session. Would it be possible to have a cardiac programline and a vascular line going parallel and not sequential?

More participants

Format works well at the moment

Clear common track in plenary sessions

more focus on translational medicine, so basic research coupled with clinical importance

As I (Akos Koller) proposed already in Vienna I would change the name to: Frontiers in CardioVascular Biomedicine (FCVB). This would promote translation of basic science results, draw more attention from clinician scientists and industry.

half to nearly completely empty concurrent sessions are terrible for speakers and attendees alike. reduce the number of presentations to a single track of talks in one lecture hall—have the talks be more interactive - allow attendees to stream their questions to chairs via an App. Chairs can pick questions and of course still invite questions from the audience - the discussions have to be more lively

Maybe even more scientific sessions as the science presented in the poster area is really great and deserves more attention

Translation from basic science to disease Treatment. More key note lectures summarizing state of the art treatment and disease pathophysiology. What did translate into therapy- what failed.

I believe the scientific content is good.

Better structuring to thematic tracks, more talks selected from abstracts. Maybe shortening the conference to two days.

Presentaion in the area of translational research.

FCVB might provide grant - 2 yrs based on ranking abstract or seperated evaulation to promote/hide young fellow

A few sessions that include vascular and cardiac reseachers

improve poster sessions - rapid fire talks as on the ESC / ePosters

excellent balance between science and networking

I like the concept of rapid fire communications. Maybe 3-5 rapid fire reports they could be included in every session.

More networking sessions

a little more intinsive

none

It was my first FCVB meeting and I really liked the format of the meeting as it was.