

Under the High Patronage of H.S.H. Prince Albert II of Monaco

French Society of Vascular Biology Inaugural Meeting

MONACO 14-16 Octobre 2026



Keynote speakers

Anne Eichmann

Ellie Tzima

Sessions:

Neurovascular interactions - Vascular brain diseases - Vascular heterogeneity in health and disease - New breakthrough in vascular biology and therapeutic - Vascular biology during development and angiogenesis - Vascular biology in Onco-Pediatrics - In vivo molecular imaging - Lymphatic vasculature



Organizing committee:

Isabelle Brunet (Collège de France, Paris)

Hanna Hlawaty (Université Sorbonne Paris Nord, Bobigny)

Gilles Pagès (Université Côte d'Azur, Nice)

Anne-Clémence Vion (L'institut du thorax, Nantes)

Scientific programme

Day 1 – Wednesday October 14th

12h00-13h30 **Welcome – Registration, posters attachment**

13h30-13h45 Welcome by Organizing committee – sponsoring acknowledgement

13h45-14h30 Opening Lecture

Chairwoman: Isabelle Brunet

*** Anne Eichmann (PARCC, France / Yale, USA)**

«The same but different: appreciating endothelial heterogeneity »

14h30-16h00 Session 1: Neurovascular interactions

Chairmen : Kevin Boyé & Dario Bonanomi

*** Baptiste Lacoste (University of Ottawa, Canada)**

« Neurovascular interactions in autism »

*** Isabelle Brunet (College de France, France)**

« Peripheral Nerves blood vessels: from homeostasis to disease »

2 selected abstracts: 15h30-16h00

*** Ganesh Parameshwar Bhat**

« Early endothelial activation at the blood–nerve barrier defines a hallmark of ALS »

*** Camille Grenier**

« Role of TRIM47/NRF2 pathway in cerebral small vessel disease pathophysiology »

16h00-16h20 Coffee Break



16h20-18h00 Session 2: Vascular brain diseases (from stroke to cancer)

Chairmen : Nathalie Kubis & Thomas Mathivet

*** Giorgio Seano (Institut Curie, France)**

« Fueling resistance: Vascular remodeling drives cell plasticity in glioblastoma »

*** Maxime Gauberti (University of Caen, France)**

« In vivo imaging of endothelial activation in the brain »

3 selected abstracts: 17h20-18h00

*** Hannelore Kemps**

«Endothelial PRDM16 limits infarct growth by maintaining cerebrovascular function during ischemic stroke »

*** Louane Despas**

« Neurovascular crosstalk between BMP9/ALK1 signaling and central nervous system-specific endothelial pathways »

*** Jose Sanchez Collado**

« Reprogramming the Glioblastoma innate immunity to normalize immune and vascular microenvironments and potentiate chemo- and immuno-therapies targeting Sema3a-nrp1-plexina1 Signaling »

18h00-19h00 **Poster Session**

19h30 - 20h30 Cocktail - Salon Excelsior, Hôtel Hermitage with the support of

Dinner at leisure thereafter

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09h00-10h40 Session 3: Vascular heterogeneity in health and disease

Chairwomen: Valérie Besnard & Muriel Laffargue

*** Judith Sluimer (University Medical Center Utrecht, Netherlands)**

« Fibroblast identity and function in atherosclerosis and vascular ageing »

*** Anna Rita Cantelmo (Institut Pasteur Lille, France)**

« Mitochondrial pathways governing endothelial cell plasticity »

3 selected abstracts: 10h00-10h40

*** Stéphanie Gayral**

« Hyperglycemia disrupt the endothelial primary cilium mechanosensor through AGE/RAGE pathway »

*** Ibtissam Babahnini**

« The role of ARHGEF18 in endothelial physiopathology: regulation of inflammation and vascular reactivity »

*** Amel Seddik**

« Translational Research on ACTA2-related Hereditary Thoracic Aortic Aneurysms and Dissections (HTAAD) Rare Disease »

10h40-11h05 Coffee Break 

11h05-12h45 Session 4: New breakthrough in vascular biology and therapeutic

Chairmen : Hanna Hlawaty & Frédéric Luciano

*** Tambet Teesalu (University of Tartu, Estonia)**

« Mechanistically novel and potent brain-penetrating peptides, CVG and Cerepep, for precision delivery »

*** Emmanuel Martinod (Université Sorbonne Paris Nord, AP-HP, France)**

« Tracheobronchial replacement with cryopreserved aortic allografts: from bench to the 50th clinical case »

3 selected abstracts: 12h05-12h45

*** Maeva Dufies**

« Dual CXCR2/DRAK1 Inhibition with RCT002 Suppresses Inflammation and Pathological Angiogenesis in Radiation Maculopathy »

*** Lucas Treps**

« Vascular impairments and new emerging comorbidities in Cystic Fibrosis »

*** Gilles Pagès**

« LVRf a VEGFA splice variant driving angiogenesis, lymphangiogenesis and fibrosis: rationale for a first-in-class anti-LVRf x anti-PD-1 bispecific antibody »

12h45-13h00 **Group Photo** 

13h00-14h30 Lunch Buffet – **Poster Session**

14h30-16h00 Session 5: Vascular biology during development and angiogenesis

Chairmen : Fabrice Soncin & Nicolas Ricard

*** Ferdinand le Noble (Karlsruhe Institute of Technology, Germany)**

« Molecular control of angiogenesis and organotypical vascular networks in the nervous system »

*** Claire Peghaire (Vascular Brain Health Institute, France)**

« From vascular development to vascular dementia: Wnt signaling, blood–brain barrier maturation, and emerging OMICS partners »

2 selected abstracts: 15h30-16h00

*** Jennifer Schwarzkopf**

« In-vivo-like sprouting tip cell biology in human microphysiological systems »

* **Ibtihal Hezili**

« *Blood vessels-on-chip for the study of the effects of anti-cancer therapies on the vascular barrier* »

16h00-16h30 Coffee Break



16h30-18h00 Session 6: Vascular biology in Onco-Pediatrics

Chairmen : Elisabeth Génot & Gilles Pagès

* **Patrick Mehlen (Centre de Recherche en Cancérologie de Lyon, France)**

« *Targeting netrin-1 in cancer: from mechanisms of cell death to patients* »

* **Nicolas André (Assistance Publique - Hôpitaux de Marseille, France)**

« *The results of the MEPENDAX clinical trial, from translational research to direct application in medulloblastoma patients* »

2 selected abstracts: 17h30-18h00

* **François Moisan**

« *Single-cell transcriptional identity of pro- and anti-angiogenic telocyte subsets during infantile hemangioma involution* »

* **Faiza Laanani**

« *Propranolol targets the ADRB2-AQP1 axis to regulate tumor cell migration and multicellular organization in cutaneous angiosarcoma* »

18h00-19h00 **General Assembly**

20h30 Gala Dinner - Blue Gin, Monte-Carlo Bay by reservation only

Day 3 – Friday October 16th

08h30-09h15 Session 7: In vivo molecular imaging

Chairman : Maxime Gauberti

* **Michael Tanter (École supérieure de physique et de chimie industrielles Paris, France)**

« *Non invasive deep brain imaging of the cerebrovascular system up to the microscopic scale using Ultrasound* »

* **Victor Marin**

1 selected abstract: 9h00-9h15

« *Deciphering the role of perivascular fibroblast cytonemes in neurovascular unit communication* »

09h15-10h20 Session 8: Lymphatic vasculature

Chairwoman : Barbara Garmy-Susini

* **Guillermo Oliver (Northwestern University, United States of America)**

« *Lymphatics are a homeostatic regulatory hub regulating cardiac size* »

2 selected abstracts: 09h50-10h20

* **Florent Morfisse**

« *Mechanical compression promotes lymphatic barrier failure and inflammation in lymphedema via a Piezo1–CaMKII–NF-κB axis* »

* **Mehdi Herhour**

« *Translational control and ribosomal RNA 2'-O-methylation under endoplasmic reticulum and genotoxic stress in human lymphatic endothelial cells* »

10h20-11h00 Coffee Break



11h00-11h45 Closing Lecture

Chairwoman: Anne-Clémence Vion

* **Anne Ellie Tzima (University of Oxford, United Kingdom)**

« *Mechanosensing in endothelial cells* »

11h45-12h15 **Congress closing speech – Oral and Poster Awards - sponsoring acknowledgement**

- [P-01] « AggreCAN forms a non-classical Blood-Brain barrier in the medio-basal hypothalamus, a critical brain region for metabolic regulations » - **Sixtine Karmann**
- [P-02] « Blood–Nerve Barrier Alterations in Acute and Chronic Oxaliplatin-Induced Peripheral Neuropathy » - **Gaetan Pallot**
- [P-03] « Deciphering extracellular matrix remodeling in brain regions distant from intracerebral haemorrhage » - **Wendy Bacile-Schoendorf**
- [P-04] « Endothelial Alk1 is critical for the maintenance of pulmonary and liver integrity beyond endothelial cells » - **Yasmin Rida**
- [P-05] « Engineering an in vivo and in vitro model of primary lymphedema » - **Elisa Balzan**
- [P-06] « Fibrillin-1 is required for endothelial mechanosensing in the aortic subendothelium » - **Al Tabosh Tala**
- [P-07] « Functional and molecular characterization of novel GDF2 (BMP9) and BMP10 variants from the French pulmonary arterial hypertension (PAH) and Hereditary Hemorrhagic Telangiectasia (HHT) cohorts » - **Agnès Desroches-Castan**
- [P-08] « Identification of a conserved EndMT gene signature associated with atherosclerosis » - **Amani Machmouchi**
- [P-09] « Investigating the role of the VEGFC/NRP2 axis in therapeutic strategies for pediatric medulloblastoma » - **Sonia Martial**
- [P-10] « Is the cerebroprotective function of endothelial PRDM16 during ischemic stroke mediated by controlling the TGFβ/BMP signaling balance? » - **Robin Schellinger**
- [P-11] « Loss of endothelial PRDM16 accelerates atherosclerosis and induces a vulnerable plaque phenotype » - **Pieter Vrancaert**
- [P-12] « Loss of ROBO2 stabilizes PLK1 via C-ABL and drives head and neck squamous cell carcinoma (HNSCC) aggressiveness » - **Rima Salma**
- [P-13] « Mesenchymal Nestin+ cells in post-myocardial infarction angiogenesis » - **Raquel del Toro Estévez**
- [P-14] « Modulation of smooth muscle cell plasticity: implication in severe asthma » - **Marc Rio**
- [P-15] « Molecular and Functional Characterization of Cerebral Perivascular Macrophage Diversity in Health and Disease » - **Sharveena Devi Daniel Mahendran**
- [P-16] « Neural crest–endothelial crosstalk in VHL-associated hemangioblastomas: development of an iPSC-based vascular tumor model » - **Esther Juguet**
- [P-17] « ORAI3 calcium channel drives neuro-angiogenic remodeling in prostate cancer » - **Lucie Bourguedieu**
- [P-18] « PAI-1, a new therapeutic target in Clear Cell Renal Cell Carcinoma ccRCC » - **Audrey Bennetot**
- [P-19] « Role of Estrogen Receptor Alpha (ERα) in the lymphatic System » - **Emeline Perez**
- [P-20] « Role of Nicotinamide N-methyltransferase (NNMT) in endothelial cell senescence: implications for vascular aging and chronic kidney disease » - **Vera Papolizio**
- [P-21] « Role of tumour-derived miR-155 in vascular remodeling associated with metastatic progression » - **Florian Alonso**
- [P-22] « Shifting from 2D co-cultures to 3D spheroid and vascularized models to mimic tumor endothelial cell mediated immune reprogramming in thoracic cancers » - **Lucas Treps**
- [P-23] « Telocyte-derived Netrin-1 targets endothelial UNC5B to drive vascular pruning during infantile hemangioma involution » - **Lesa Faith Ndayisaba**
- [P-24] « Uncovering glycosaminoglycan-rich blood vessels in the mediobasal hypothalamus, a key region for central metabolic control » - **Margot Ban**
- [P-25] « Unraveling the role of endothelial ZEB2 in the pathogenesis of idiopathic pulmonary fibrosis » - **Mirthe Willekens**
- [P-26] « Vasodilator-Induced Protection Against Oxaliplatin-Induced Peripheral Neuropathy in Tumor-Bearing Mice » - **Cindy Durand**

Partner Acknowledgements



Location Map

The map below highlights key access points and travel times within Monaco



Going to Hermitage

A group departure will leave from the Novotel lobby on 14 October at 7:20 PM to reach the Hermitage by foot.

Getting to Monte Carlo Bay

By foot

A group departure will leave from the Novotel lobby on 15 October at 8:00 PM to reach the Monte-Carlo Bay by foot.

By bus

From the Novotel, turn right and walk to the next bus stop, Roqueville. Take Bus 5 towards Larvotto and get off at the Sporting stop, which is located near the Monte-Carlo Bay.

By taxi

Taxis are also available to reach the Monte-Carlo Bay. A taxi ride within Monaco costs €18.

Wi-Fi

To connect to the Novotel Wi-Fi, select the “Novotel Guest” network. No login is required, simply click “Connect”.

For any further information, feel free to come and see us at the welcome desk, our team will be pleased to help.

You can also reach us by phone at +377 97 97 35 55 or by mobile phone at +33 6 60 72 85 20