

## 8. Atherothrombosis Winterschool der AG19 in Würzburg

Programm:

### Freitag, 12. Januar 2024

12:30 - 13:00	Registrierung
13:00 - 13:10	Begrüßung und Eröffnung
13:10 - 14:40	Vortragssitzung 1: Thrombozyten, Hämostaseologie und Inflammation Vorsitz: Prof. Geisler / Prof. Hochholzer
13:10 - 13:25	Mechanical stress shapes macrophage function in atherosclerotic lesions (Marka)
13:25 - 13:40	Mechanosensitive ion channels in integrin mediated platelets function (Fan)
13:40 - 13:55	Jak2VF clonal hematopoiesis promotes arterial thrombosis via increased production of young activated Jak2VF platelets and cross-talk to wild type platelets (Pircher)
13:55 - 14:10	Endothelial-Cell dependent Activated Protein C Formation is Impaired in Hereditary Protein C Deficiency Independent from Protein C Gene Mutation and Residual Activity in Plasma (Schwarz)
14:10 - 14:25	Bleeding-induced excessive platelet formation raises the risks of thrombosis in patients of intensive care unit. (Sameera)
14:25 - 14:40	Acquired d-storage pool deficiency and increased GPV shedding impair thrombus formation and predict outcome in ECMO patients (Weiss)
14:40 - 15:00	Pause und Gruppenfoto
15:00 - 16:00	Postersession 1 Vorsitz Gruppe A: PD Dr. Petzold / Dr. Gjermeni Vorsitz Gruppe B: Dr. Reda / PD Dr. Polzin
Gruppe A	Association of cytochrome P450 2C19 polymorphism with ischemic and bleeding risk in patients with atrial fibrillation undergoing percutaneous coronary intervention (Petzold) Temporal dynamics of Neutrophil NLRP3 Inflammasome expression and function in ischemia/reperfusion injury following ST-Segment elevation myocardial infarction (Häßner) Gremlin-1 promotes inflammation and cardiac remodeling leading to an increased cardiovascular risk in patients with non-ischemic cardiomyopathy (Harm) Antibodies and complement are key drivers of venous thrombosis (Stockhausen) Routinely available inflammatory biomarkers are not associated with target lesion revascularization after coronary intervention (Steinacher)
Gruppe B	Thrombozytenreaktivität bei Patienten mit Vorhofflimmern und Clopidogrel nach koronarem Stent (Vetter) The association of vasoactive agents and postoperative atrial fibrillation after cardiac surgery (Hammer) Omission of periprocedural acetylsalicylic acid in patients with atrial fibrillation undergoing percutaneous coronary intervention: a two-center observational cohort study (Campos) Reticulocyte-hemoglobin-equivalent for clinical risk stratification in patients with atrial fibrillation (Blaudischek) Prädiktoren der Hämostase zur Risikostratifizierung von Patienten nach Transkatheter-Aortenklappenersatz (Hölzle)

16:00 - 16:15	Pause
16:15 - 17:45	Vortragssitzung 2: Abseits von Labor und Daten Vorsitz: Prof. Praz / PD Dr. Hohensinner
16:15 - 16:45	Planung der ersten Studie. Tipps und Fallstricke! (Polzin)
16:45 - 17:15	Hämostaseologie: Schnittstellen von Kardiologie und Transfusionsmedizin (Rühl)
17:15 - 17:45	ChatGPT und wissenschaftlichen Schreibens. (Olivier, Kille)
17:45 - 18:00	Tagesabschluss
18:00 - 19:30	Fachdiskussion beim gemeinsamen Abendessen
19:30	Treff den Experten bei Wein (optionale Veranstaltung)

## Samstag, 13. Januar 2024

08:30 - 09:30	Postersession 2 Vorsitz: Dr. Nührenberg / Dr. Kille Real-World Scenario of Heart Failure Treatment - Prediction of Functional Capacity Improvement of the Left Ventricle under Treatment with an Angiotensin Receptor-Nepriylsin Inhibitor (Appenzeller) Charakterisierung von Patienten mit Lungenembolie behandelt durch Ultraschall-gestützte Katheter-geführte Thrombolyse (Wessinger) Evaluation of immature platelets for the prediction of thromboembolic events in patients with oral anticoagulation (Struk) Prädiktoren der Hämostase zur Detektion von subklinischen Klappenthrombosen nach Transkatheter-Aortenklappenersatz (Hesselbarth) The impact of extracorporeal life support and therapeutic anticoagulation on the platelet count in the acute phase of cardiogenic shock (Huseynov)
09:30 - 10:00	Pause (Zeit für den Checkout)
10:00 - 11:30	Vortragssitzung 3: Vom Labor in die Klinik: Neue Aspekte Vorsitz: PD Dr. Olivier / Dr. Rühl
10:00 - 10:15	Comparison of phenprocoumon with direct oral anticoagulants in catheter ablation of atrial fibrillation (Gjermeni)
10:15 - 10:30	Immature platelets for clinical risk stratification of patients with atrial fibrillation (Corpataux)
10:30 - 10:45	EKOS Case report (Abdelrahman)
10:45 - 11:00	Evaluation of an explainable decision tree model algorithm for optimizing outpatient thrombophilia diagnosis and thrombosis risk stratification in the outpatient setting (McRae)
11:00 - 11:15	Significance of the platelet lipidome in assessing adverse thrombo-ischemic and major bleeding events by machine learning (Harm)
11:15 - 12:00	Pause
12:00 - 12:15	Preisverleihung, Feedback und Schlusswort
12:15	Mittagessen mit wissenschaftlichem Veranstaltungsrückblick

## 8<sup>th</sup> Atherothrombosis Winterschool of the AG19 in Würzburg

### Program:

#### Friday, January 12<sup>th</sup> 2024

12:30 - 13:00	Registration
13:00 - 13:10	Opening
13:10 - 14:40	Lecture session 1: platelets, hemostaseology and inflammation Chair: Prof. Geisler / Prof. Hochholzer
13:10 - 13:25	Mechanical stress shapes macrophage function in atherosclerotic lesions (Marka)
13:25 - 13:40	Mechanosensitive ion channels in integrin mediated platelets function (Fan)
13:40 - 13:55	Jak2VF clonal hematopoiesis promotes arterial thrombosis via increased production of young activated Jak2VF platelets and cross-talk to wild type platelets (Pircher)
13:55 - 14:10	Endothelial-Cell dependent Activated Protein C Formation is Impaired in Hereditary Protein C Deficiency Independent from Protein C Gene Mutation and Residual Activity in Plasma (Schwarz)
14:10 - 14:25	Bleeding-induced excessive platelet formation raises the risks of thrombosis in patients of intensive care unit. (Sameera)
14:25 - 14:40	Acquired d-storage pool deficiency and increased GPV shedding impair thrombus formation and predict outcome in ECMO patients (Weiss)
14:40 - 15:00	Break and group photo
15:00 - 16:00	Poster session 1 Chair group A: PD Dr. Petzold / Dr. Gjermeni Chair group B: Dr. Reda / PD Dr. Polzin
Group A	Association of cytochrome P450 2C19 polymorphism with ischemic and bleeding risk in patients with atrial fibrillation undergoing percutaneous coronary intervention (Petzold) Temporal dynamics of Neutrophil NLRP3 Inflammasome expression and function in ischemia/reperfusion injury following ST-Segment elevation myocardial infarction (Häßner) Gremlin-1 promotes inflammation and cardiac remodeling leading to an increased cardiovascular risk in patients with non-ischemic cardiomyopathy (Harm) Antibodies and complement are key drivers of venous thrombosis (Stockhausen)
Group B	Routinely available inflammatory biomarkers are not associated with target lesion revascularization after coronary intervention (Steinacher) Thrombozytenreaktivität bei Patienten mit Vorhofflimmern und Clopidogrel nach koronarem Stent (Vetter) The association of vasoactive agents and postoperative atrial fibrillation after cardiac surgery (Hammer) Omission of periprocedural acetylsalicylic acid in patients with atrial fibrillation undergoing percutaneous coronary intervention: a two-center observational cohort study (Campos) Reticulocyte-hemoglobin-equivalent for clinical risk stratification in patients with atrial fibrillation (Blaudischek) Prädiktoren der Hämostase zur Risikostratifizierung von Patienten nach Transkatheter-Aortenklappenersatz (Hölzle)

16:00 - 16:15	Break
16:15 - 17:45	Lecture session 2: Beside bench and data Chair: Prof. Praz / PD Dr. Hohensinner
16:15 - 16:45	Establishing your first study. Tricks and pitfalls! (Polzin)
16:45 - 17:15	Hemostaseology: Interfaces of cardiology and transfusion medicine (Rühl)
17:15 - 17:45	ChatGPT and Scientific Writing. (Olivier, Kille)
17:45 - 18:00	Closing
18:00 - 19:30	Scientific discussion with dinner
19:30	Meet the expert at wine. (Optional event)

## Saturday, January 13<sup>th</sup> 2024

08:30 - 09:30	Poster session 2 Chair: Dr. Nührenberg / Dr. Kille
	Real-World Scenario of Heart Failure Treatment - Prediction of Functional Capacity Improvement of the Left Ventricle under Treatment with an Angiotensin Receptor-Nepriylsin Inhibitor (Appenzeller) Charakterisierung von Patienten mit Lungenembolie behandelt durch Ultraschall-gestützte Katheter-geführte Thrombolyse (Wessinger) Evaluation of immature platelets for the prediction of thromboembolic events in patients with oral anticoagulation (Struk) Prädiktoren der Hämostase zur Detektion von subklinischen Klappenthrombosen nach Transkatheter-Aortenklappenersatz (Hesselbarth) The impact of extracorporeal life support and therapeutic anticoagulation on the platelet count in the acute phase of cardiogenic shock (Huseynov)
09:30 - 10:00	Break (time to check out)
10:00 - 11:30	Lecture session 3: From bench to clinic: New aspects Chair: PD Dr. Olivier / Dr. Rühl
10:00 - 10:15	Comparison of phenprocoumon with direct oral anticoagulants in catheter ablation of atrial fibrillation (Gjermeni)
10:15 - 10:30	Immature platelets for clinical risk stratification of patients with atrial fibrillation (Corpataux)
10:30 - 10:45	EKOS Case report (Abdelrahman)
10:45 - 11:00	Evaluation of an explainable decision tree model algorithm for optimizing outpatient thrombophilia diagnosis and thrombosis risk stratification in the outpatient setting (McRae)
11:00 - 11:15	Significance of the platelet lipidome in assessing adverse thrombo-ischemic and major bleeding events by machine learning (Harm)
11:15 - 12:00	Break
12:00 - 12:15	Award, Feedback and Closing
12:15	Lunch and scientific event review