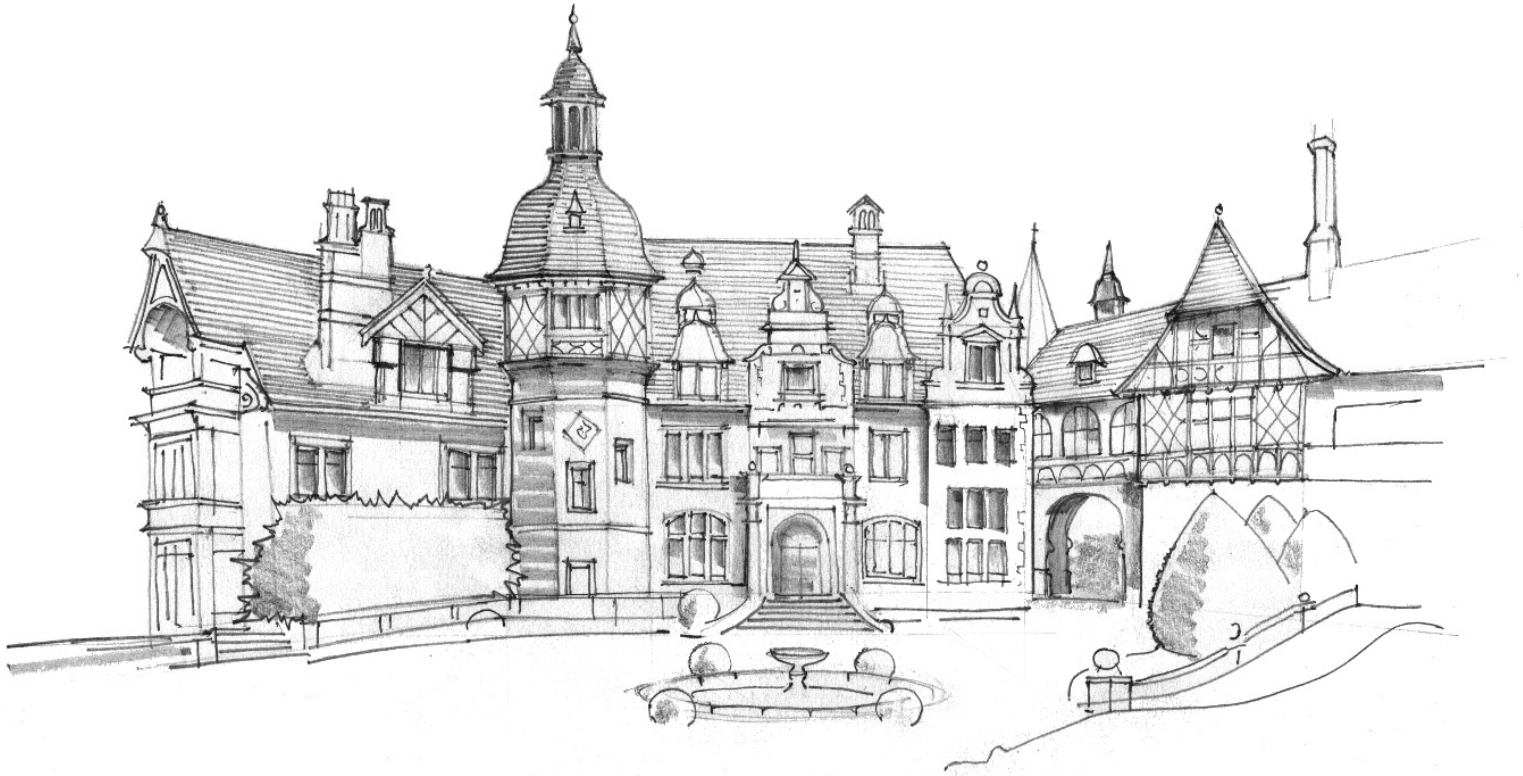


Program



14th Transport Colloquium

March 23-25, 2026

Schloss Rauschholzhausen, Germany

Organizers

Eric Geertsma (Dresden)
Inga Hänel (Frankfurt)
Joachim Geyer (Gießen)

The biennial meeting of the
GBM study group BIOMEMBRANES

Kindly supported by:



Monday, March 23th

15:00 Registration

16:30 Welcome

16:45 Session I: Drug transporters and transporters as drug targets

Session Chair: Jörg König

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| Mladen Tzvetkov | Chasing the mechanistic basis of poly-specificity in SLC22 transporters: a mid-journey report (GBM lecture) |
| Veronica Billo | Two-ring-based S1647 derivatives as human SOAT inhibitors |
| Sven Marcel Stefan | Privileged ligands – privileged structures: the shared chemical space between protein kinases, ABC transporters, and solute carriers |
| Marleen Meyer-Tönnies | The role of the amino acid at codon 32 in the hepatic organic cation transporters OCT1 and OCT3 |
| Fabian Müller | A cocktail approach to assess transporter-mediated drug-drug interactions in clinical trials (GBM lecture) |

19:00 Dinner

20:00 After dinner speech

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| Robert Tampé | Supramolecular membrane-associated machineries in cellular quality control and adaptive immunity (GBM lecture) |
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Tuesday, March 24th

08:15 Session II: Transporter function and regulation *in vivo*

Session Chair: Joachim Geyer

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| Ahmed Ghallab | Functional intravital imaging of bile acid transport in health and disease: new insights into disease pathogenesis (GBM lecture) |
| Felix Julian Morof | Organic cation transporter 1 influence peripheral serotonin levels in human and mouse |
| Angelika Jöger | Novel insights into the structural and functional development of the SLC10 carriers NTCP and SOAT from their orthologues in <i>Caecilian</i> species |
| Arne Gessner | <i>In vivo</i> identification and <i>in vitro</i> characterization of new biomarkers for renal transporter-mediated drug-drug interactions |
| Stefan Oswald | Regulation of human (drug) transporters beyond genetic polymorphisms (GBM lecture) |

10:20 Coffee break

10:50 Session III: Transporters at the mesoscale

Session Chair: Inga Hänel

Ute Hellmich	Dynamic relays in type IV multidrug ABC transporters (GBM lecture)
Katharina Heilmann	Implications of phylogenetic variations in ABCB transporter proteins of birds and reptiles for the therapeutic safety of anti-infective drugs
Michael Kamel	Conformational plasticity of the ABC transporter P-glycoprotein
Elena Kohlmann	Deorphanisation of the SLC21/SLCO family member OATP5A1
Ramachandra Bhaskara	Role of membrane shredding, budding, poration, and fusion in health and disease (GBM lecture)

13:00 Lunch

14:00 Session IV: Structure of membrane transporters

Session Chair: Christian Löw

Franz Hagn	Structural basis of apoptosis induction by the mitochondrial voltage dependent anion channel (GBM lecture)
Dovilė Janulienė	Capturing MsbA in motion: conformational landscapes under distinct turnover conditions
Shi-Min Tan	Structural and cellular mechanisms of ABCA2 in cholesterol trafficking
Polina Zotova	Nanodisc-based approach for membrane protein delipidation
Gabriel Moya Muñoz	Brick-MIC: building blocks for single-molecule experiments
Hongbin Wu	A fluorescence-based platform for monitoring osmolyte transport (GBM lecture)

16:00 Meeting of the GBM study group “Biomembranes” / Coffee break

16:45 Session V: Transporters in (patho)physiology

Session Chair: Ute Scholl

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| Christoph Fahlke | Insights from genetic diseases into EAAT anion channel physiology (GBM lecture) |
| Francesca De Luca | Effect of plasma membrane cholesterol remodelling on tubular reabsorption of small proteins |
| Gholamreza Fazeli | Uncovering the mechanisms of selenite transport: identification and characterization of a specific transporter |
| Mariafrancesca Scalise | The serine transporter ASC1 (SLC7A10): trafficking to plasma membrane and regulation by cholesterol and its derivatives |
| Michael Köttgen | Investigation of the function of mitochondrial transporters through forward genetic approaches (GBM lecture) |

19:00 Dinner

20:00 Poster Session (sponsored by Fluobrick)

Wednesday, March 25th

9:00 Session VI: (Bio)physics of transport

Session Chair: Eric Geertsma

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| Bettina Böttcher | Structural and functional insights into mechanosensitive channels of small conductance (GBM lecture) |
| Kai-Uwe Goss | There is an energy-driven permeability threshold for active transport |
| Gergely Gyimesi | Structural basis of multidrug off-target binding – prediction of target poly-specificity |
| Charlott Stock | Wilson's Disease mechanisms manipulate ATP7B activity (GBM lecture) |

11:00 Lipotype – Poster Prize, Concluding Remarks

11:30 Snack and Departure