

GBM/
DGZ

FALL

CONFERENCE

2019

Age-Related Human Diseases
Special Focus: Autophagy

Program

25. - 27. September 2019
Eberhard Karls University Tübingen

24. September 2019
Science Outreach



<http://herbsttagung.gbm-online.de>

Welcome

Dear Friends and Colleagues,

We warmly welcome you to the GBM / DGZ Fall Conference 2019 in Tübingen.

Our topics cover exciting new insights into molecular mechanisms of autophagy, neurodegeneration, cancer, infection, immunology and ageing.

Given that both life expectancy and occurrence of age-associated human diseases are increasing, research on the genetics of ageing and on its regulatory mechanisms attracted tremendous scientific and public interest in the last years. Accumulative evidence supports the notion that conserved regulatory signalling pathways controlling lifespan converge, in particular, on autophagy, an essential cellular survival program significantly contributing to secure cellular and organismic homeostasis. The emerging model underlines that the process of autophagy is modulated during the ageing process and directly contributes in important ways to age-related human diseases.

We are fortunate that world-leading experts will introduce our conference topics and share their magnificent research insights.

We sincerely hope that the upcoming days will offer interesting opportunities for interdisciplinary and in-depth discussions, as well as the possibility to initiate new friendships, collaborations, and joint projects.



Warmly,

A handwritten signature in cursive script, reading "T. Proikas-Cezanne".

Tassula Proikas-Cezanne
Scientific Organizer

Content	Page
Honorary Lectures	5
Speakers	6 - 7
Awards	8 - 9
Schedule	
Tuesday, 24 Sept.	10 - 11
Wednesday, 25 Sept.	12 - 13
Thursday, 26 Sept.	14 - 19
Friday, 27 Sept.	20 - 23
Poster Session/Poster List	24 - 37
General Informations	
Locations	38 - 39
Registration	40
Coffee & Lunch	41
Internet	41
Organization	42
Impress	43

Honorary Lectures

Keynote Lecture



Sharon Tooze

The Francis Crick Institute
London, UK

„Early events in autophagosome
formation“

Fritz Lipmann Lecture



Marino Zerial

Max Planck Institute of
Molecular Cell Biology and Genetics
Dresden, Germany

„Self-organization and biomechanical
properties of the endosomal
membrane“

Carl Zeiss Lecture



Anthony Hyman

Max Planck Institute of
Molecular Cell Biology and Genetics
Dresden, Germany

„Phase separation in cell biology and
disease“



Speakers



Anne Bertolotti
MRC Laboratory of Molecular Biology
Cambridge, UK



Patricia Boya
Centro de Investigaciones Biologicas
Madrid, Spain



Maria Isabel Colombo
Universidad National de Cuyo
Mendoza, Argentina



Ivan Dikic
Goethe University Frankfurt
Frankfurt a.M., Germany



Eeva-Liisa Eskelinen
Universities of Helsinki and Turku
Helsinki, Turku, Finland



Gillian Griffiths
Cambridge Institute for Medical Research
Cambridge, UK



Marcus Groettrup
University of Konstanz
Konstanz, Germany



Anthony Hymann
Max Planck Institute of
Molecular Cell Biology and Genetics
Dresden, Germany



Marja Jäättelä
University of Copenhagen
Copenhagen, Denmark



Heinz Jungbluth
King's College London
London, UK



Daniel Klionsky
University of Michigan
Ann Arbor, MI, USA



Nicholas Ktistakis
Babraham Institute
Cambridge, UK



Frank Madeo
University of Graz
Graz, Austria



Fulvio Reggiori
University Medical Center Groningen
Groningen, The Netherlands



Marina Rodnina
Max Planck Institute for
Biophysical Chemistry
Göttingen, Germany



David Rubinsztein
Cambridge Institute for Medical Research
Cambridge, UK



Kevin Ryan
The Beatson Institute
Glasgow, UK



Sharon Tooze
The Francis Crick Institute
London, UK



Richard Youle
National Institute of Neurological
Disorders and Stroke
Bethesda, MD, USA



Marino Zerial
Max Planck Institute of
Molecular Cell Biology and Genetics,
Dresden, Germany

GBM Awards

Otto Warburg Medal

Sponsored by Elsevier/BBA



Marina Rodnina

Max Planck Institute for Biophysical Chemistry
Göttingen, Germany

Otto Meyerhof Prize

Sponsored by Boehringer Ingelheim



Kathrin Lang

Technische Universität München
Munich, Germany

Karl Lohmann Prize



Lucas Farnung

Max Planck Institute for Biophysical Chemistry
Göttingen, Germany

GBM PhD Award



Alexander Schubert

Genentech
San Francisco, CA, USA

DGZ Awards

Walther Flemming Award

Sponsored by Elsevier GmbH/EJCB



Constantinos Demetriades

Max Planck Institute for Biology of Ageing
Cologne, Germany

Nikon Young Scientist Award

Sponsored by Nikon GmbH



Germán Camargo Ortega

ETH Zurich, Switzerland;
University of Munich & Helmholtz Zentrum
München, Munich, Germany

BINDER Innovation Prize

Sponsored by BINDER GmbH & Co. KG



Meritxell Huch

Gurdon Institute, University of Cambridge, UK;
Max Planck Institute of Molecular Cell Biology
and Genetics, Dresden, Germany

Werner Risau Prize

for outstanding Studies in Endothelial Cell Biology



Esther Bovay

Max Planck Institute for Molecular Biomedicine
Münster, Germany

24. Sept. 2019

Science Outreach

Eberhard Karls University
Neue Aula, Audimax

Time	Program
17:00 - 18:00	Reception
18:00 - 18:10	Opening words Tassula Proikas-Cezanne (Tübingen/DE) Scientific Organizer
18:10 - 18:20	Welcome address Boris Palmer (Tübingen/DE) Lord Mayor of Tübingen
18:20 - 19:00	Public Lecture Frank Madeo (Graz/AT) „Ernährung und Gesundheit“

Please note that this session will be held in German.

Time	Program
	Panel Discussion „Autophagie und ihre Bedeutung für Gesundheit und Neurodegeneration“ Moderation Ina Knobloch (Frankfurt a.M./DE) City Media TV Christian Behl (Mainz/DE) Autophagy Researcher
19:00 - 20:00	Frank Madeo (Graz/AT) Autophagy Researcher Markus Nielbock (Heidelberg/D) Representative Hoffnungsbaum e.V. Boris Palmer (Tübingen/DE) Lord Mayor of Tübingen Tassula Proikas-Cezanne (Tübingen/DE) Scientific Organizer Autophagy Researcher

Please note that this session will be held in German.

25. Sept. 2019

Eberhard Karls University
Neue Aula, Audimax

Time	Program
14:00	Start of conference
Opening words	
14:00 - 14:10	Tassula Proikas-Cezanne (Tübingen/DE) Scientific Organizer
14:10 - 14:15	Annette Beck-Sickinger (Leipzig/DE) GBM President
14:15 - 14:20	Oliver Gruss (Bonn/DE) DGZ President
Session I: Autophagy	
14:20 - 15:20	Keynote Lecture Sharon Tooze (London/UK) <i>Early events in autophagosome formation</i>
15:20 - 15:45	Lecture Daniel Klionsky (Ann Arbor/USA) <i>The regulation of autophagy in yeast</i>
15:45 - 15:55	Short Talk Lena Munzel (Göttingen/DE) <i>The molecular function of Atg21 in autophagosome biogenesis</i>
15:55 - 16:25	Coffee Break

Eberhard Karls University
Neue Aula, Audimax

Time	Program
Continued Session I: Autophagy	
16:25 - 16:35	Short Talk Sebastian Schuck (Heidelberg/DE) <i>ESCRT machinery mediates selective microautophagy of endoplasmic reticulum</i>
16:35 - 17:00	Lecture Ivan Dikic (Frankfurt a.M./DE) <i>ER-phagy: from molecular principles to pathogenesis of human diseases</i>
17:00 - 18:00	Fritz Lipmann Lecture Marino Zerial (Dresden/DE) <i>Self-organization and biomechanical properties of the endosomal membrane</i>

Museum
Silchersaal, Uhlandsaal

Time	Program
18:00 - 21:00	Poster Session I Topics: Autophagy, Neurodegeneration Poster Numbers 1 – 61 Pretzels and Beer

26. Sept. 2019

Eberhard Karls University
Neue Aula, Audimax

Time	Program
Session II: Autophagy	
08:30 – 08:55	Lecture Eeva-Liisa Eskelinen (Helsinki,Turku/FI) <i>Membrane dynamics in mammalian macroautophagy</i>
08:55 – 09:20	Lecture Frank Madeo (Graz/AT) <i>Fasting regimes and caloric restriction mimetics for healthspan extension</i>
09:20 – 09:45	Lecture Nicholas Ktistakis (Cambridge/UK) <i>Dynamics of selective and non-selective autophagy: the early steps</i>
09:45 – 09:55	Otto Meyerhof Prize Kathrin Lang (Garching/DE) <i>Expanding the genetic code - protein chemistry in living systems</i>
09:55 – 10:05	BINDER Innovation Prize Meritxell Huch (Cambridge/UK; Dresden/DE) <i>Liver organoids for the study of liver biology and disease</i>
10:05 – 10:35	Coffee Break

Eberhard Karls University
Neue Aula, Audimax

Time	Program
Session III: Infection	
10:35 – 11:00	Lecture Maria Isabel Colombo (Mendoza/AR) <i>A novel signaling pathway involved in the autophagic response to Staphylococcus aureus infection</i>
11:00 – 11:10	Short Talk Anna Riebisch (Braunschweig/DE) <i>A battle for survival – the interplay between autophagy and S. aureus infection</i>
11:10 – 11:35	Lecture Fulvio Reggiori (Groningen/NL) <i>Unconventional functions of ATG proteins in viral infections</i>
11:35 – 11:45	Highlight Compartmentalisation Roland Knorr (Potsdam/DE; Tokyo/JP) <i>Phase-separated compartments function as scaffolds for autophagosome formation and as selective cargoes</i>
11:45 – 11:55	Highlight Lipid Biology Taki Nishimura (London/UK) <i>Osh Proteins Control Nanoscale Lipid Organization Necessary for PI(4,5)P2 Synthesis</i>
11:55 – 14:00	Lunch Break

26. Sept. 2019

Museum
Brahmssaal

Time	Program
12:00 - 14:00	Networking, Soup and Beverages
12:30 – 14:00	DGZ Membership Info

Eberhard Karls University
Neue Aula, Audimax

Time	Program
14:00 - 15:00	Otto Warburg Medal Marina Rodnina (Göttingen/DE) <i>Translational Recoding</i>
15:00 – 15:10	Flash Talk Industry Carl Zeiss Microscopy GmbH Hubert Bauch (Oberkochen/DE) <i>How to improve sensitivity, speed and resolution in a confocal Laser-Scanning Microscope</i>
15:10 – 15:20	Flash Talk Publishing Cells, MDPI Christian Behl (Mainz/DE) <i>Cells: a peer-reviewed open access journal with a focus on autophagy</i>
Session IV: Neurodegeneration	
15:20 – 15:45	Lecture David Rubinsztein (Cambridge/UK) <i>Autophagy and neurodegeneration</i>

Eberhard Karls University
Neue Aula, Audimax

Time	Program
Continued Session IV: Neurodegeneration	
15:45 – 15:55	Short Talk Robin Ketteler (London/UK) <i>Development of a human neuronal cell model of Beta-Propeller Protein-Associated Neurodegeneration (BPAN) as a drug screening platform</i>
15:55 – 16:25	Coffee Break
16:25 – 16:35	Short Talk Matthis Synofzik (Tübingen/DE) <i>A novel deep-intronic WDR45 mutation causes impaired selective autophagy in BPAN</i>
16:35 – 17:00	Lecture Heinz Jungbluth (London/UK) <i>Congenital disorders of autophagy – a novel class of neurometabolic disorders linking neurodevelopment and neurodegeneration</i>
17:00 – 17:25	Lecture Richard Youle (Bethesda/USA) <i>How the kinase PINK1 activates the ubiquitin ligase Parkin to mediate autophagy of mitochondria and impact Parkinson's disease</i>

26. Sept. 2019

Eberhard Karls University
Neue Aula, Audimax

Time	Program
17:25 - 17:35	Nikon Young Scientist Award Germán Camargo Ortega (Zurich/CH; Munich/DE) <i>Centrosome and microtubule dynamics regulate the balance of stem cell self- renewal and differentiation</i>
17:35 – 17:45	Karl Lohmann Prize Lucas Farnung (Göttingen/DE) <i>Structural biology of nucleosome passage</i>
17:45 – 17:55	GBM PhD Award Alexander Schubert (San Francisco/USA) <i>Mechanism of PINK1-mediated ubiquitin phosphorylation</i>

Museum
Silchersaal, Uhlandsaal

Time	Program
18:00 - 21:00	Poster Session II Topics: Infection, Immunology, Ageing, Cancer Poster Numbers 62 – 121 Fingerfood Buffet
21:00 - 24:00	Networking Event

Wurstküche
Am Lustnauer Tor 3

Time	Program
19:00 – 21:30	Speakers' Dinner

27. Sept. 2019

Eberhard Karls University
Neue Aula, Audimax

Time	Program
Session V: Ageing	
08:30 – 08:55	Lecture Patricia Boya (Madrid/ES) <i>Autophagy during aging and age-related diseases</i>
08:55 – 09:05	Short Talk Lilia Pinela Soares Espada (Jena/DE) <i>Aging-associated inactivation of adaptive stress responses including autophagy limits longevity benefits of the anti-aging drug metformin</i>
09:05 – 09:15	Short Talk Heinz Osiewacz (Frankfurt a.M./DE) <i>Impact of sorting nexin PaATG24 on autophagy, aging and development</i>
09:15 – 09:25	Short Talk John Lane (Bristol/UK) <i>LIR-dependent LMX1B autophagy crosstalk shapes dopaminergic neuronal resilience in Parkinson's</i>
09:25 – 09:50	Lecture Anne Bertolotti (Cambridge/UK) <i>Selective inhibition of phosphatases to boost protein quality control: A possible treatment for degenerative diseases</i>

Eberhard Karls University
Neue Aula, Audimax

Time	Program
09:50 – 10:00	Walther Flemming Award Constantinos Demetriades (Cologne/DE) <i>The TSC/mTOR signaling axis in nutrient sensing and the cellular stress response</i>
10:00 – 10:10	Werner Risau Prize Esther Bovay (Münster/DE) <i>Multiple roles of lymphatic vessels in peripheral lymph node development</i>
10:10 – 10:40	Coffee Break
Session VI: Immunology	
10:40 – 11:05	Lecture Gillian Griffiths (Cambridge/UK) <i>Autophagic pathways in killer cells</i>
11:05 – 11:15	Short Talk Marina Jendrach (Berlin/DE) <i>Regulation of neuroinflammation by autophagy</i>
11:15 – 11:40	Lecture Marcus Groettrup (Konstanz/DE) <i>The cytokine-inducible ubiquitin-like modifier FAT10 in proteasomal degradation and autophagy</i>

27. Sept. 2019

Eberhard Karls University
Neue Aula, Audimax

Time	Program
Continued Session VI: Immunology	
11:40 – 11:50	Last Minute Excitement Franziska Eck (Munich/DE) <i>Exploring novel functions of endogenous GABARAPL2</i>
11:50 – 14:00	Lunch Break
Session V: Cancer	
14:00 – 14:25	Lecture Marja Jäättelä (Copenhagen/DK) <i>Lysosomal leakage - more than a cell suicide mechanism</i>
14:25 – 14:35	Short Talk Silvia Vega Rubin de Celis (Essen/DE) <i>Breast tumorigenesis regulation by autophagy and HER2</i>
14:35 – 14:45	Short Talk Mario Tschan (Bern/CH) <i>ALK-targeted therapy triggers protective autophagy in EML4-ALK positive lung cancer cells</i>
14:45 – 15:10	Lecture Kevin Ryan (Glasgow/UK) <i>Autophagy and cell metabolism in cancer</i>

Eberhard Karls University
Neue Aula, Audimax

Time	Program
15:10 – 16:10	Carl Zeiss Lecture Anthony Hyman (Dresden/DE) <i>Phase separation in cell biology and disease</i>
16:10 – 16:20	Best Posters awarded by Johannes Herrmann (Kaiserslautern/DE) GBM Vice President
16:20 – 16:30	Closing Remarks Tassula Proikas-Cezanne (Tübingen/DE) Scientific Organizer
16:30	End of conference

Poster

Poster Sessions

Poster session I (Poster numbers 1- 61)

Topics: Autophagy, Neurodegeneration

Date: Wednesday, 25.09.2019

Time of presentation: 18:00- 21:00h

Location: Museum Obere Säle, 1st floor,

Silchersaal/Uhlandsaal, Wilhelmstr. 3, 72074 Tübingen

Poster set-up: Upon registration, Wednesday,

25.09.2019, 10:00- 13:00h

Poster dismantling: Wednesday, 25.09.2019, 21:00h

Poster session II (Poster numbers 62- 121)

Topics: Infection, Immunology, Ageing, Cancer

Date: Thursday, 26.09.2019

Time of presentation: 18:00- 21:00h

Location: Museum Obere Säle, 1st floor,

Silchersaal/Uhlandsaal, Wilhelmstr. 3, 72074 Tübingen

Poster set-up: Wednesday, 25.09.2019, 21:00h

Poster dismantling: Thursday, 26.09.2019, 21:00h

The authors in attendance time is the time of presentation and we encourage presenting authors to be present throughout their poster session.

Poster Specs

Poster boards are in portrait format and authors can make use of the full dimensions of A0 format (841 mm width × 1189 mm height).

Pins necessary for attaching the poster will be available at each poster board.

Poster Prizes

At the end of the conference, the best four posters will be awarded a poster prize (certificate and 250 € prize money). The presence of the presenting author is required.

Poster List

(Alphabetical Order)

Presenting Author (Poster Number) Title

Abdel Ghani, Luca (68)

Identification of monensin A as a novel inhibitor of the leukemia protein MYB

Acikgoz, Demet (112)

The Effects of CDP-Choline on Mitochondrial Dynamics

Ax, Mirjam (25)

Receptor-mediated endocytosis 8 (RME-8)/DNAJC13 stabilizes cellular proteostasis and positively modulates autophagy

Bader, Sina (70)

The anti-malaria drug Dihydroartemisinin induces apoptosis, ferroptosis and autophagy-associated cell death in normoxia and interferes with long-term survival in hypoxia

Basic, Mila (31)

Autophagy is restricted by the ubiquitin-specific protease 11 (USP11)

Behl, Christian (IV.)

CRC1177 - Molecular and Functional Characterization of Selective Autophagy

Behrends, Christian (III.)

Autophagy, Inflammation and Metabolism in Disease Center (the AIM center)NIH-funded Center of Biomedical Research Excellence Focused on Autophagy

Bekbulat, Fazilet (27)

RAB18 impacts autophagy via lipid droplet-derived lipid transfer and is rescued by ATG9A

Bitter, Catrin (75)

The role of an anti-fibrotic microRNA network in control of liver cancer-associated fibrosis

Poster List

(Alphabetical Order)

Presenting Author (Poster Number) Title

- Blagojevic, Biljana (80)
Non-essential amino acid-specific regulation of Sestrin2 in various cancer cell lines
- Blagojevic, Biljana (81)
DHEA Treatment Impairs Growth in Colorectal Cancer Cells Through G6PD/PKM2 Mediated Metabolic Reprograming
- Böhly, Nikolas (121)
Molecular mechanisms of replication stress-induced mitotic chromosome missegregation
- Borner, Georg (52)
Dysregulated spatial control of autophagy is a disease mechanism of AP-4 deficiency syndrome, a severe neurodegenerative disorder
- Bose, Shroddha (118)
Lysosomal Ion Homeostasis And Membrane Traffic Of And To Lysosomes With Insights on Autophagy
- Braulke, Thomas (II.)
Research Unit FOR2625 "Mechanisms of Lysosomal Homeostasis"
- Braun, Ralf (61)
Systematic elucidation of the yeast interactome of human disease-associated proteins
- Briest, Wilfried (I.)
Leibniz Institute on Aging – Fritz Lipmann Institute (FLI)
- Burgstaller, Sandra (24)
pH-Lemon, a fluorescent protein-based pH reporter for acidic compartments
- Choezom, Dolma (78)
Neutral sphingomyelinases in the interplay between autophagy and EV secretion

Presenting Author (Poster Number) Title

- Christ, Maximilian (48)
Sigma-1 Receptor Activation Induces Autophagy In Vitro and In Vivo: Implications for Neurodegeneration
- Ciftci, Akif (10)
Autophagosomes are shaped in a confined space between the vacuole and the ER
- David, Della (93)
Macroautophagy-independent lysosomal degradation protects against protein aggregation in a tissue-specific manner
- Deitersen, Jana (74)
Identification and characterization of autophagy-modulating natural compounds for the battle against cancer
- Dobner, Jochen (5)
Non-redundant roles of GABARAP subfamily members during surface protein trafficking
- Eck, Franziska (15)
Exploring novel functions of endogenous GABARAPL2
- Eimer, Stefan (33)
Regulation of mitochondrial integrity by Rab GTPase mediated control of mitophagy
- Espada, Lilia (94)
Aging-associated inactivation of adaptive stress responses including autophagy limits longevity benefits of the anti-aging drug metformin
- Fitzian, Katharina (108)
TSC1 is an oligomeric scaffold for TSC complex assembly and membrane recruitment
- Freitag, Kiara (39)
Autophagy induction reduces PolyI:C driven neuroinflammation

Poster List

(Alphabetical Order)

Presenting Author (Poster Number) Title

Giehl, Klaudia (72)
Rac1 but not Rac1b induces epithelial to mesenchymal transition and promotes invasion of lung adenocarcinoma cell lines

Gilsbach, Bernd (51)
LRRK2 a complex Protein involved in Parkinson's disease: Insights from Biochemical and Structural Analysis

Graef, Martin (22)
Fatty acid channeling drives autophagic membrane formation at phagophore-ER contacts during autophagy

Groh, Carina (105)
What is the impact of mitochondrial stress on the cytosolic proteostasis?

Gross, Angelina (12)
Autophagy regulation in response to phosphate starvation

Gruss, Oliver (49)
mTOR dependent phosphorylation of the SMN complex regulates UsnRNP biogenesis

Haller, Patricia (59)
Impaired selective autophagy in Charcot-Marie-Tooth neuropathy type 4J (CMT4J)

Harbauer, Angelika (47)
PINK1 mRNA is transported with mitochondria and translated locally to support axonal mitophagy

Heberle, Alexander (20)
AMPK and PLK1 respond to amino acid availability to regulate autophagy.

Henkel, Lisa (65)
Effects of the mitochondria-targeting agents 1,10-phenanthroline and VLX600 on tumor cell death in glioblastoma

Presenting Author (Poster Number) Title

Hofer, Sebastian (89)
InterFAST: Alternate Day Fasting in healthy, non-obese humans

Hu, Zehan (1)
Multilayered control of protein turnover by TORC1 and Atg1

Hua, Chuanfeng (82)
Size of portally deprived liver lobe after portal vein ligation and additional partial hepatectomy: Result of balancing proliferation and apoptosis

Jahnke, Ricarda (17)
The Hippo network kinase STK38 contributes to protein homeostasis by inhibiting BAG3-mediated autophagy

Jendrach, Marina (87)
Modulation of autophagy in aged human endothelial cells

Jendrach, Marina (98)
Regulation of neuroinflammation by autophagy

Juretschke, Thomas (8)
Autophagy in the cellular response to DNA damage

Kaether, Christoph (45)
A disease causing ATLASTIN 3 mutation affects multiple endoplasmic reticulum-related pathways

Kaloyanova, Dora (35)
Amyloidogenic interactions in regulation of autophagy

Kang, Kyung (57)
dHip14 attenuates neurodegeneration by inducing apoptosis in *Drosophila* eye

Kaniyappan, Senthilvelrajan (36)
Pathological missorting of endogenous MAPT/Tau in neurons caused by failure of protein degradation systems

Poster List

(Alphabetical Order)

Presenting Author (Poster Number) Title

Karuna M, Pradhipa (66)

Ykt6 – Brake or Accelerator of Wnt signaling ?

Keller, Florian (63)

Metabolic interactions in a novel 3D cell co-culture model using colon cancer cells and fibroblasts.

Ketteler, Robin (3)

De-LC3ylation of proteins is a novel function of mammalian ATG4 proteases

Ketteler, Robin (41)

Development of a human neuronal cell model of Beta-Propeller Protein-Associated Neurodegeneration (BPAN) as a drug screening platform

Klapan, Kim (103)

The role of the p73-ATG5 axis in regulating autophagy in atopic dermatitis and psoriasis

Knorr, Roland (34)

Phase-separated compartments function as scaffolds for autophagosome formation and as selective cargoes

Köhler, Anja (104)

Inhibition studies of an organophosphate-detoxifying phosphotriesterase with human plasma components

Krämer, Lena (119)

How can mitoprotein-induced stress be rescued?

Krautscheid, Annika (92)

The impact of aging on liver

Krivega, Maria (99)

cGAS/STING signaling upregulates immune response and autophagy in human aneuploid cells

Kutz, Julia (111)

Characterization of a putative novel human replication factor PN70

Presenting Author (Poster Number) Title

Leonhardt, Gregor (120)

Glycophosphocholine-phosphodiesterase1 (EDI3) - A new player in the Glycogen Metabolism

Lindner, Robert (60)

Spinal muscular atrophy-triggering low levels of survival of motor neuron protein enhance macropinocytosis

Loi, Marisa (7)

Regulation of the recov-ER-phagy pathway

López Garza, Ana (77)

Overexpression of PTP4A3 in high grade ovarian sarcoma cell lines drives high basal not activatable autophagy.

Lucini, Chantal (56)

Modulation of TDP-43 pathology via mutated ubiquitin in a yeast model of Parkinsonism-Dementia Complex of Guam

Lugarini, Francesca (23)

Initiation of Autophagy signalling by HORMA domain proteins

Lüningschrör, Patrick (38)

Plekhg5 regulates the autophagy of synaptic vesicles in axon terminals of motoneurons

Mangerich, Aswin (71)

PARP1 regulates DNA damage-induced nucleolar-nucleoplasmic shuttling of WRN and XRCC1 in a toxicant and protein-specific manner

Marelya, Zvominir (95)

How lysosomal cystine export maintains autophagy during fasting

Martinez-Vicente, Marta (42)

The role of GBA in the pathogenesis of Parkinson's disease

Mayer, Carlotta (2)

NudC – a new player in WIPI-mediated autophagy

Poster List

(Alphabetical Order)

Presenting Author (Poster Number) Title

Mendiburo, María (18)

Role of the ULK protein family during nucleophagy

Michaelis, Jonas (13)

Mitophagy induction by the mitochondrial unfolded protein response

Mohan, Kshitij (90)

Search for age-dependent transcriptomic and epigenetic changes in murine cerebral endothelial cells

Müller, Günter (86)

Sensitive Detection of Age-Dependent Release of Cell Surface Proteins with Intact Glycosylphosphatidylinositol Anchor from Isolated Adipocytes and into Serum of Rats

Munzel, Lena (29)

The molecular function of Atg21 in autophagosome biogenesis

Nalpas, Nicolas (69)

Integration of Individualised Proteogenomics Datasets to Analyse Single Amino Acid Variants in Cancer

Nezi-Cahn, Sandra (107)

The fibroblast's secretion of the two Tissue Factor isoforms and its pro-angiogenic effects on endothelial cells

Niklaus, Nicolas (73)

DMTF1 β -induced autophagy enhances migration and invasion of breast and prostate cancer cells

Nishimura, Taki (106)

Osh Proteins Control Nanoscale Lipid Organization Necessary for PI(4,5)P₂ Synthesis

Nussbaum-Krammer, Carmen (37)

Reducing Insulin/IGF1 Signaling Protects Against Non-Cell Autonomously Vesicle Rupture Caused by SNCA/ α -synuclein Spreading

Presenting Author (Poster Number) Title

Orlich, Michael (115)

Functions of the transcription factor SRF in pericytes of the murine neonatal retina in physiological and pathological angiogenesis

Ortiz, Julio (30)

Structural basis and in situ visualization of p62/SQSTM1 polymers by electron microscopy

Osiewacz, Heinz (88)

Impact of sorting nexin PaATG24 on autophagy, aging and development

Overhoff, Melina (40)

Deciphering the mechanisms underlying the myoclonic seizures caused by the loss of autophagy in the brain

Platta, Harald (19)

Rapamycin-induced peroxisome degradation (R.I.P.): a novel degradation mode for peroxisomes.

Platta, Harald (116)

Peroxisomal function is regulated by signaling factors at the vacuole.

Platta, Harald (32)

Vac8 Controls Vacuolar Membrane Dynamics during Different Autophagy Pathways in *Saccharomyces cerevisiae*.

Platta, Harald (117)

Vps10-mediated targeting of Pep4 determines the activity of the vacuole in a substrate-dependent manner.

Popova, Blagovesta (46)

SUMOylation promotes autophagy-dependent α -synuclein clearance in a yeast model of Parkinson's disease

Prentzell, Mirja (76)

A novel lysosomal tether of the TSC complex

Poster List

(Alphabetical Order)

Presenting Author (Poster Number) Title

- Raimundo, Nuno (6)
Mitochondria regulate lysosomal autophagic capacity independently of mitophagy
- Reich, Selina (58)
A novel deep-intronic de novo WDR45/WIPI4 mutation causes impaired selective autophagy in BPAN
- Ribaudo, Federico (54)
Insights into pathophysiology of SPG48
- Riebisch, Anna (85)
A battle for survival – the interplay between autophagy and *S. aureus* infection
- Rieser, Jens (84)
Protein-interaction network analysis of Salmonella infected HeLa cells.
- Sanwald, Julia (9)
Investigation of GABARAP's secretion by proximity labelling of extracellular vesicles
- Sanzà, Paolo (109)
Characterization of the Mannose 6-Phosphate independent transport of lysosomal proteins
- Scharf, Lisa (64)
The pan-Bcl-2 inhibitor gossypol selectively induces cell death in skin cancer cell lines compared to normal (healthy) cells
- Schlagowski, Anna (50)
The mitochondrial oxidoreductase Mia40 modulates the toxicity of cytosolic protein aggregates
- Schlütermann, David (101)
TBK1 at the crossroads of autophagy and inflammation

Presenting Author (Poster Number) Title

- Schmitt, Marisa (67)
Proteogenomics of melanoma cell lines and xenografts identifies mutations and phosphorylation events with a potential to rewire signal transduction networks
- Schmitz, Ingo (102)
Autophagy competence in CD4+ T cells controls autoimmunity and anti-tumor responses
- Schuck, Sebastian (14)
ESCRT machinery mediates selective microautophagy of endoplasmic reticulum
- Schüssele, David (28)
Autophagosomal WIPI puncta image analysis using CellProfiler on tumor cells isolated from a mouse model for hepatocellular carcinoma
- Senay, Simge (113)
The role of High Density Lipoprotein-Cholesterol (HDL-C) on autophagy in monocytes and endothelial cells
- Siebert, Verena (114)
Cleavage of PGAM5 by the rhomboid intramembrane protease PARL is governed by transmembrane helix dynamics and an oligomeric switch
- Simons, Indra (11)
Monitoring GABARAP without cross-reactivity of its close paralogs by microscopy under endogenous conditions: GABARAP meets EGFR
- Singer, Elisabeth (55)
Characterization of autophagy in cell models of ATXN-3 knock-out and Ataxin-3 down regulation
- Smylla, Thomas (44)
The role of TOR signaling in retinal neuroprotection of *Drosophila* photoreceptor cells

Poster List

(Alphabetical Order)

Presenting Author (Poster Number) Title

Sporbeck, Katharina (16)
ATG-18 and EPG-6 are Both Required for Autophagy but Differentially Contribute to Lifespan Control in *Caenorhabditis elegans*

Stoll, Raphael (96)
Phosphorylation orchestrates the structural ensemble of the intrinsically disordered protein HMGA1 and modulates its DNA binding to the NFkB promoter

Stürner, Elisabeth (26)
Insights into the regulation and function of BAG3-mediated selective macroautophagy in protein quality control

Tschan, Mario (83)
ALK-targeted therapy triggers protective autophagy in EML4-ALK positive lung cancer cells

Üstün, Suayib (100)
Crosstalk between autophagy and intracellular trafficking processes during plant immunity

van der Welle, Reini (110)
Inhibition of lysosomal fusion events affects mTORC1 signaling

van Echten-Deckert, Gerhild (53)
Impaired autophagy promotes neurodegeneration in sphingosine 1-phosphate-lyase ablated brains

Vega-Rubin-de-Celis, Silvia (62)
Breast tumorigenesis regulation by autophagy and HER2

Vetterlein, Isabell (79)
Error catastrophe and cancer - Exonuclease mutations of polymerases δ and ϵ cause strong mutator phenotypes

Wegner, Martin (21)
Multiplexed 3Cs identifies novel genetic interactions in the autophagy network

Presenting Author (Poster Number) Title

Wirth, Alexander (4)
Studying ageing using FRET-based biosensors

Witte, Leonie (97)
Understanding secretory MVB trafficking for the release of extracellular vesicles.

Xu, Fengming (91)
Modulation of autophagy to promote regeneration of the aging liver

General Info



Locations / Map

1 Audimax/Neue Aula

Eberhard Karls Universität Tübingen
Audimax (Neue Aula)
Geschwister-Scholl-Platz
72074 Tübingen / Germany

2 Museum

Wilhelmstraße 3
72074 Tübingen / Germany

3 Central Railway Station

200m

General Info

Registration

Have you already registered online? Then please come to the registration desk before the start of the program and pick up your name badge and conference proceedings.

For late registration: Please come to the registration desk in order to register for the meeting.

Registration Fees:

Member* Academia/from Industry	320 €
Member* PhD student	225 €
Member* Bachelor/Master student	120 €
Member* Retiree	120 €
Non Member Academia/from Industry	360 €
Non Member PhD student	235 €
Non Member Bachelor/Master student	130 €
Non Member Retiree	130 €

* member of the GBM or DGZ

The registration fee is exempt from VAT according §4, 22a UStG and contains catering costs of 50 EUR which are subject to 19% VAT.

Opening Hours of the registration/information desk:

Tuesday, 24. Sept. 2019 | 15:00 – 19:00

Wednesday, 25. Sept. 2019 | 10:00 – 18:30

Thursday, 26. Sept. 2019 | 07:30 – 17:00

On Friday no registration is possible.

Phone & Email:

(during the opening hours)

Phone +49 177 7862927

Email swolf@eventlab.org

Coffee Breaks & Lunch

Coffee, tea and beverages will be provided for free during the coffee breaks.

During the networking on 26. Sept. Swabian soup will be provided at the Museum.

Internet

Please use your Eduroam for internet access during the conference.

For all participants without an Eduroam account, guest access will be available.

Important! Photos & Videos

We request to NOT take photos or videos of any scientific material displayed at the posters without the explicit permission from the authors.

General Info

Scientific Organization

Prof. Dr. Tassula Proikas-Cezanne
Eberhard Karls University Tübingen
Email tassula.proikas-cezanne@uni-tuebingen.de
Mobile +49 178 1570125

Prof. Dr. Michael Thumm
Georg August University Göttingen

Prof. Dr. Marius K. Lemberg
Rubrecht Karls University Heidelberg

Prof. Dr. Konstanze F. Winklhofer
Ruhr University Bochum

Meeting Management

For questions regarding registration:
Sabrina Wolf
Project Assistant
event lab. GmbH
Email swolf@eventlab.org
Phone +49 341 30 88 84-79

For questions regarding sponsoring:
André Störmer
Sponsor Management
event lab. GmbH
Email astoermer@eventlab.org
Phone +49 341 30 88 84-80

GBM Head Office

For all other questions:
Gesellschaft für Biochemie und Molekularbiologie
Mörfelder Landstr. 125
60598 Frankfurt am Main
Email info@gbm-online.de
Phone +49 69 660567-0

Dr. Anke Lischeid /Managing Director
Sabine Hähnke-Metzen
Tino Apel

Responsible Organizer / Impress

Responsible organizer of the conference is the German Society for Biochemistry and Molecular Biology.

Cooperation partner is the German Society for Cell Biology.

The GBM is registered as a non-profit organization under number 4265 in the register of associations of the city of Frankfurt am Main.

The GBM is legally represented by the executive board

Prof. Dr. Annette Beck-Sickinger (President)
Prof. Dr. Blanche Schwappach-Pignataro (1. Vice President)
Prof. Dr. Johannes Herrmann (2. Vice President)
Prof. Dr. Jürgen Alves (Secretary General)
Prof. Dr. Wolfgang Trommer (Treasurer)

Registered office of the GBM:
Gesellschaft für Biochemie
und Molekularbiologie e.V.
Mörfelder Landstr. 125
60598 Frankfurt am Main
Germany

Phone +49 69 660567-0
Fax +49 69 660567-22
Email info@gbm-online.de
Homepage <https://gbm-online.de>

Join us!

Become a Member of the
German Autophagy Association:

GBM Studiengruppe Autophagie

<http://autophagie-gbm.de>

<https://gbm-online.de/autophagie.html>

GBM Membership Application:

<https://gbm-online.de/mitglied.html>



CFATG9 - 9th Scientific Days on Autophagy Obernai (near Strasbourg, France)

November 20-22, 2019

Keynote speakers:

- Michael Thumm (Universitätsmedizin Göttingen, Germany)
- Patrizia Agostinis (Katholieke Universiteit Leuven, Belgium)
- Christian Behrends (Ludwig-Maximilians-Universität, München, Germany)
- Jörn Dengjel (Université de Fribourg, Suisse)
- Katja Simon (University of Oxford, UK)



In association with:



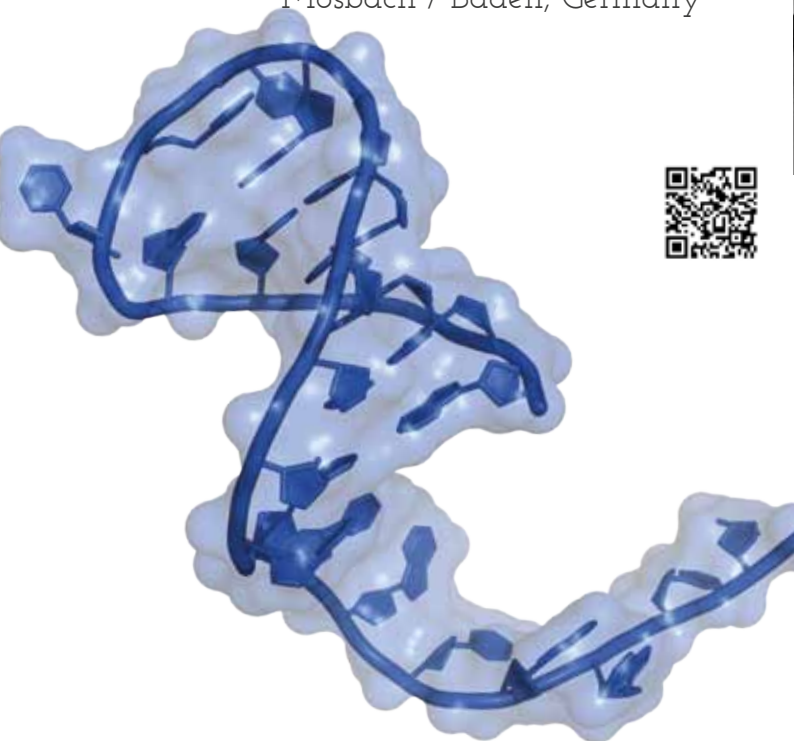


Gesellschaft für Biochemie
und Molekularbiologie e.V.

71st Mosbacher Kolloquium

The world of RNAs - principles & applications

April 2 - 4, 2020
Mosbach / Baden, Germany



www.mosbacher-kolloquium.org

Adding the Multiplex Factor to Your Confocal Imaging

ZEISS LSM 980 with Airyscan 2



Your next generation confocal for fast and gentle Multiplex imaging

Discover the ideal platform for your confocal 4D imaging: your ZEISS LSM 980 with Airyscan 2 is optimized for simultaneous spectral detection of multiple weak labels with highest light efficiency. Add Airyscan 2 with its new Multiplex mode to get higher speed and sensitivity for your demanding experiments. You get more options to gently image larger fields of view with superresolution in shorter acquisition times than ever before.

www.zeiss.com/lsm980



Thank you!



EBERHARD KARLS
UNIVERSITÄT
TÜBINGEN



MEZE
AKADEMIE

