

Cancelled	39
Adow, Abdinasir	Presenter: Mao, Runyu; Adow, Abdinasir
HpepTag: A compact 14-residue peptide tag for minimally invasive, proximity-induced covalent protein labeling in living cells	40
Ali, Jabir	
Selective EF-Tu hydroxylation by PPHD controls metabolic fitness in MDR pseudomonas aeruginosa	41
Amistadi-Revol, Hugo	
From x-ray based fragment screening to nanomolar-affinity bioactive molecules	42
Andonaia, Angela	
Integrated biophysical characterization of MRTX1133 selectivity across KRAS variants	43
Aydin, Umutcan	
Rational design of indole-modified DNA aptamers for proximity-guided inhibition of zmp1	44
Babu, Nithyashree	
Conformational caging of nucleic acid probes via bioorthogonal click chemistry	45
Baker, Andrew	
Nanoparticle-mediated proximity biology for the control of receptor degradation and signaling	46
Cancelled	47
Bartolik, Ola	
Developing chemogenetic tools for synapse specific regulation of neuronal circuits	48

Baser, Aminesena	
Development of type I photosensitizer for cancer stem cell targeting	49
Bekhit, Marco Samir Kamel	
Light-activated magnetotrap for controlled cryo-EM sample preparation and structure determination	50
Benderoth, Anja	
Chemogenetic recorders for post hoc analysis of compartmentalized cellular activities and membrane contacts	51
Bhagal, Inderjeet	Presenter: Roy, Sudeep
Naringenin as a dual inhibitor of RAGE signaling and Aβ aggregation in alzheimer's disease	52
Biswas, Somarghya	
Modulating SRSF2 P95H-driven aberrant splicing using decoy oligonucleotides	53
Boczán, Boldizsár	
Photoactivatable iminosynones for optochemically controlled drug activation	54
Bojtár, Márton	
Rhodamine-based photocages for chemical biology and drug delivery	55
Bora, Burhan	
Development of indole-modified DNA aptamers for the selective inhibition of mycobacterium tuberculosis Zmp1 via click-SELEX	56
Bozkurt, Berkan	
Engineering bivalent fluorogenic probes for high-fidelity single-molecule RNA imaging in living cells	57
Brinkhofer, Julian	
Late-stage amination and reductive amination of peptides on the solid phase	58

Bubnyte, Dovile	
Broad cofactor promiscuity enables DNA imaging via methyltransferase labeling	59
Bucevicius, Jonas	
Dual stabilization of S-adenosylmethionine for enzymatic DNA labeling	60
Buzuk, Lana	
Targeted protein ubiquitination using peptide-based HaloPROTACs	61
Chan, Rachel	
Mapping the interactome of stress-responsive RNA-binding proteins in cancer using BAP-seq	62
Cherukuri, Kesava Phaneendra	
Phosphotriesterase-based uncaging system for cell-specific nascent proteome profiling	63
Cserép, Gergely Balázs	
Bioorthogonally activatable iminosydnone-caged drug conjugates	64
da Silva, Daiane Laise	
A chemical biology strategy to target the phosphosignaling network of mycobacterium tuberculosis	65
Daiea, Racha	
Towards biomimetics targeting the c-MYB–CBP/p300 KIX interaction via mRNA display	66
Dasgupta, Aishi	
Mycobacterial sulfoglycolipid-1 is a novel regulator of host actin dynamics	67
Dasgupta, Aishi	
SARS-CoV-2 spike pseudovirus modulates host membrane dynamics and cellular Metabolism	68

Desta, Liele	
Peptide-based modulation of the Fis1-Opa1 interaction to regulate mitochondrial dynamics in cardiovascular disease	69
Didier, Christophe	
Targeting membrane proteins with mRNA display	70
Dobryakova, Ekaterina	
NMR as a powerful tool for investigating biological and biochemical processes, using focal adhesions as an example	71
Ember, Orsolya	
Three-color photopharmacology: chromatically orthogonal photocages for precision optical control of G protein-coupled receptors	72
Ercan, Melda	
Investigation of PP1-regulated signaling networks in HL-1 cells through chemical modulation and phosphoproteomics analysis	73
Ferber, Dominic	
Targeted degradation and inhibition of NLRP3 by indazole scaffolds	74
Fernando, Micah	
A chemical genetics approach to developing selective rab gtpase probes	75
Fottner, Maximilian	
Genetic code expansion facilitates programmable ubiquitylation via UBE2W	76
Gerasimaite, Ruta	
OptiFoot: a method for recording protein footprints on DNA for microscopy and sequence analysis	77
Giráldez, Teresa	Presenter: Pérez Márquez, Lidia
BK-based calcium nanodomain reporters combining protein engineering and bioorthogonal click chemistry	78

Glück, David		
Confinement of T-cell receptors controlled by light in space and time		79
Gören, Hasan Yavuz		
Design of a CYP2J2-activatable, ER-targeted chemiluminescent dioxetane probe for in vitro cancer cell imaging		80
Gottinger, Andrea	Presenter: Gottinger, Andrea	
Unlocking the architecture of the COQ metabolon: from "metabolite chaperoning" to hidden links in metabolism		81
Gries, Klara		
Toward multiplexed recordings with split self-labeling protein tags		82
Gross, Lissy		
Gold-mediated thiomalate masking triggers ferroptosis in cancer cells		83
Guenther, Julius		
Reprogramming the MIZ1 transcription factor with chemically induced proximity		84
Haefner, Ella		
Computational design of pH sensitive proteins for catalytic membrane protein degradation		85
Handy, Eli		
Stereodivergent synthesis of iminocyclitols as glycosidase inhibitors and biological probes		86
Hegedus, Zsolia		
Quantifying cooperativity in coactivator–TAD networks by ITC		87
Heiduk, Markus		
Engineering peptide-based immunogens and their delivery with novel chemistry		88
Herrmann, Barbara		
From design to function: click-triggered bioorthogonal double release and traceless cleavage		89

Hertwig, Manuel	
Protease profiling in neurons using an activity based chemical probe	90
Hilditch, Alexander	
De novo design of multistate light-activated heterodimers	91
Ho, Adrian Pui Ting	
Death receptor 5-clustering polydopamine nanoparticles induce selective apoptosis in cancer	92
Hoddle, Freya	
A chemical and genetic toolbox to probe the role of GalNAc-transferases in mucin maturation	93
Huang, Shibin	
Design and synthesis of near-infrared lipid-peroxide detection probe	94
Iype, Tarun	
Hijacking a bacterial ABC transporter for efficient genetic code expansion	95
Kainacher, Lisa	
Leveraging the BAF chromatin remodeling complex for targeted chemical transcriptional rewiring in cancer	96
Kalkuhl, Sebastian	
Development of photo-caged HDAC-trapping amino acids for applications in recombinant proteins	97
Kassamali, Fatemah	
A bump and hole approach to study S-acylation in T-cells by ZDHHC20	98
Kee, Jung-Min	
Chemoproteomic strategies for decoding reactive protein post-translational modifications	99
Keller, Sascha	
Enzyme-activated azaquinone methide prodrugs for tumour-selective cytotoxicity	100

Kern, Dóra	
Should I stay or should I go - bioorthogonally activatable affinity labeling	101
Kielkowski, Pavel	
Deciphering the tubulin code using chemical proteomics	102
Kirchgäßner, Sören	
Acetyl-lysine mimicking amino acids for bromodomains	103
Koçak, Haluk Samet	
Organelle-specific peroxynitrite sensing and theranostic activity via a golgi-targeted chemiluminescent probe	104
Koch, Vivien	
Investigating lysosomal lipid trafficking using photoactivable lipid probes and mass spectrometry	105
Kozma, Eszter	
Photopharmacological control of G protein-coupled receptor and lipid-mediated calcium signalling using photocaged ligands	106
Kueppers, Raphaela	
Designing peptide binders to study MIZ1-dependent transcriptional regulation	107
Kumal, Prakash	Presenter: Dangol, Sarbesh Das
Engineering genomes of nepali millets: improving callus induction, regeneration and transformation	108
Kumar, Kiran	
Unraveling the role of the oxidoreductase family enzyme using novel protacs for cellular stress and cancer cell death	109
Langen, Andreas	
Ninhydrin-based chemoproteomics expands covalent access to arginine across the cancer proteome	110
Larsson, Alfred	
Photocaged ligation for high-fidelity, enzyme-free primer extension for in situ molecular labeling	111

Latua, Pikaso	
A ratiometric plug-and-play fluorogenic probe for quantitative imaging of brain and retinal extracellular matrix	112
Le Meur, Léa	
Enzyme activatable bioorthogonal iminosydnone (ImSyd) platforms	113
Li, Jiajun	
Integrated mechanical and thermodynamic profiling of protein-protein interactions via spinning disk shear-based bioassays and FACS sorting	114
Li, Kejia	
A chemical proteomics method to uncover the novel metabolic regulatory mechanisms in Escherichia coli	115
Lincoln, Richard	
Harder, better, faster, stronger: improving haloTag labelling technologies by ligand engineering	116
Listov, Dina	
Beyond model reactions: computational strategies for engineering complex natural enzymes for carbon fixation	117
Löffler, Andreas	
Accelerated bioorthogonal click-to-release of cleavable tetrazines through directed tautomerization	118
Mao, Runyu	
HpepTag: a 14-mer peptide tag for covalent live-cell protein labeling with diverse probes	119
Mary Pushpam, Leena Devadas	
Exploring the potential of enzymes in the saxitoxin biosynthesis pathway of the dinoflagellate alexandrium catenella for cell-free chemoenzymatic synthesis	120
Melgar, Andrea	
Harnessing PROTAC-mediated degradation to trigger cytosolic uncoating of an engineered nucleocapsid	121

Molnár, Tibor Ákos	
Development and application of new generation xanthenium-based photolabile compounds	122
Murao, Yuta	
Development of a raman probe for quantitative measurement of glutathione	123
Nayak, Minati	
DSePA, an organodiselenide exhibits preferential toxicity against lung cancer (A549) cells: elucidation of molecular determinants through metabolomic approach	124
Nguyen, Van Thang	
A highly selective, cell-permeable fluorescent probe for imaging histone deacetylase 6 in live cells	125
Nutkovich, Boaz	
Near infra-red fluorescent sensors based on si-rhodamine for co2 sensing	126
Ockhuijsen, Maro	
Exploring the activity-stability landscape of EGFR to unlock allosteric degraders	127
Pankaj, Vaishali	Presenter: Roy, Sudeep
Integrated discovery of selective HDAC8 Inhibitors with anticancer activity	128
Papitto, Alessandra	
Optimization of a liver- and a muscle-specific 3xMetRS mouse models to investigate the muscle-liver axis during MASLD progression	129
Patel, Urvashi	
Structural and chemical biology investigations into class I histone deacetylase ubiquitination and proteasome mediated degradation	130
Payne, China	
Enabling molecular biology research through chemical synthesis: a core facility approach	131

Perolo, Carlo		
Structure-function analysis of arabidopsis cellulose synthases and small molecule inhibitors using computational and in vivo approaches		132
Pessoa, Emma	Presenter: Lereculey-Beaumanoir, Justine; Pessoa, Emma	
Directed protein evolution, computational design and engineering for the investigation of endogenous neuronal proteins		133
Peters, Casper		
Protein quality control in alpha-synuclein aggregation and condensates		134
Pham, Lien Thi Kim		
A fission yeast chemical-genomics platform for systematic functional annotation of novel bioactive compounds		135
Philipps, Sofia		
Shining light on protein degradation - developing photoswitchable PROTACs for spatiotemporal control of protein degradation		136
Pierotti, Catia		
Development of a peptide inhibitor targeting the C-SH2 domain of the SHP2 phosphatase		137
Potter-Engelskirger, Zachary		
Allosteric covalent ligands that mediate selective Chaperone Antagonism-Induced Degradation of CDK4 in cancer cells		138
Pytel, Wiktoria		
Cyclic peptide tools to investigate the role of PADI6 in early embryonic development		139
Rai, Himanshu	Presenter: Modi, Gyan	
Discovery of novel NIRF theranostic probes targeting Amyloid beta and cholinesterases		140
Reimann, Louise		
De novo protein design for tuning excitonic coupling		141

Reiting, Philipp	Presenter: Breinbauer, Rolf	
Synthesis of ApoA1 Mimetics		142
Rinaldi, Francesco		
A chemical biology probe identified through 19F-NMR induces RAD51 polymerization and perturbs BRC4 engagement		143
Rossebø, Adrian G.		
Photopharmacological control of 5-HT2A receptor activation and signaling bias		144
S Raman, Apoorva		
Application of a viral base excision repair polymerase for rapid and sequence-specific detection of DNA		145
Sadre, Shayan		
Programming pH-responsiveness through computational protein design		146
Saharkhiz, Saber		
VNC-Dist 2.0: instance segmentation of sparse nuclei for automated neuronal position quantification in the C. elegans VNC		147
Sarkar, Paramita		
An RNA toehold switch-based screening platform enables the discovery of potentiators for antisense antibiotics		148
Sathyan, Dhriya	Presenter: Sunbul, Murat	
From an RNA imaging tag to a high-precision RNA interactome mapping platform		149
Scala, Francesca		
Clickable molecular tools to probe targeted protein degradation in living cells		150
Schartel, Lukas		
Endogenous protein labelling using RNA trans-splicing and click chemistry		151
Schedel, Franziska		
Investigation of cancer signalling of the phosphatase SHP2 using modulators with different modes of action		152

Shahen, Rawan	
Real - time sensing intracellular CO₂ metabolism using aza-wittig-based sensors	153
Shisaka, Yuma	
Development of a fluorescence polarization-based binding assay for a CO₂-fixing enzyme	154
Sigal, Maxwell	
De novo discovery of α-helical peptides containing α,α-disubstituted α-amino acids	155
Skrodenyte, Emilija	
Novel cytidine deaminase CDA_F14 variants with improved catalytic activity	156
Soto Acevedo, Angeliz	
Engineering highly modular red fluorescent integrators for multiplex imaging of GPCR ligands and protease activity	157
Stains, Cliff	
Rational design of improved near-infrared dyes for biomedical imaging	158
Stratton, Oliver	Presenter: Kornherr, Sophia
Design and characterisation of trivalent transcriptional chemical inducers of proximity	159
Tan, June	Presenter: Fraser, Andy
Making an aptamer sensor for every metabolite and drug - harnessing machine learning for aptamer sensor prediction	160
Tavakoli, Samin	
Characterization of compounds that inhibit CRISPR gene editors	161
Thomas, Alix	
De novo design of fluorescence lifetime chemigenetic biosensors	162
Todorovska, Ivana	
Mapping protein–DNA interactions of phospholipase D3 through crosslinking approaches	163

Torell, Andreas	
Detection of protein-protein interactions by bio-orthogonal fluorogenic proximity probes	164
Tsuji, Mieko	
Controlling intracellular oxidative stress with light-activatable photocaged peroxides	165
Usami, Atsushi	
Biocatalytic reprogramming of molecular nanocarbons using insects	166
Wahl Godoy, Isis Mani	
Spectroscopic studies to understand the early intermediates of the vanadium nitrogenase reaction cycle	167
Walton, Abigail	
Three-dimensional immuno-hybridization chain reaction in thick, cleared tissues	168
Xu, Haixing	
Proximity-induced protein deglycosylation by endogenous O-GlcNAcase	169
Yang, Mingze	
Kinetic modeling of intracellular drug delivery using a bioorthogonal luminescence assay	170
Yenici, Cansu	
Pyrase-responsive hemicyanine for selective bacterial imaging and phototherapy	171
Yoshimura, Masahiko	
Chemical approaches to understand and control Striga parasitism through strigolactone and quinone signaling	172
Yu, Wen	Presenter: Dai, Yifan
Physical and chemical origins of the non-enzymatic redox activities of biomolecular condensates	173

Zarse, Joshua

Development of sortase-catalyzed multi-fragment assembly strategies for peptides and proteins 174

Zhang, Erika

Next generation diazo compounds for the stabilized esterification of biomolecules 175

Ziemniak, Marcin

Overcoming multidrug resistance with optimized annamycin nanoliposomes: a chemical biology approach to topoisomerase II Inhibitor delivery 176