

Presenter Last Name	Presenter First Name	Control ID	Guidebook Number	Aisle Number	Poster Number	Abstract Title
Patil	Ujwal	3653265	1	2000	2021	ThisismeBPD: Diversity & inclusion team, biopharmaceutical development, AstraZeneca
Katz	Ryan	3654592	2	2000	2023	High-throughput automation of viral potency assays alleviates bottleneck in upstream and downstream process development and analytics
Poplyk	Murphy	3655042	3	2000	2025	Demonstration of a glutathione affinity chromatography capture step for multiple enterovirus serotypes
Haddad	Katherine	3650302	4	2000	2027	Rapid bioproduction of protein biologics in plants for low resource settings
Grasdal	Oliver	3651851	5	2000	2029	Rapid detection of SARS-CoV-2 using quartz crystal microbalance
Fox	Jerome	3638082	6	2000	2031	Evolution-guided biosynthesis of biologically active
Monte Carlo	Anthony	3646542	7	2000	2035	Inactivation kinetics of G-quadruplex/hemin complex and optimization for more stable catalysis
Anderson	Asia	3648932	8	2000	2039	Progress Toward an Efficient Method for the Extraction of the Membrane Protein Anabaena Sensory Rhodopsin
Negulescu	Patrick	3649052	9	2000	2041	Design and techno-economic analysis of a cultivated meat facility
Affonso de Oliveira	Jessica Fernanda	3650700	10	2000	2043	In vivo fate of plant virus nanoparticle-based immunotherapy
Komives	Claire	3652604	11	2000	2045	Engineered nanobody for neutralization of snake venom toxins
Blair	Elaina	3654454	12	2000	2047	Engineering microbial consortia for bioproduct generation
Ji	Fei	3654499	13	2000	2049	Interpretation of cellular kinase signaling dynamics based on multiplexed iterative immunofluorescence
Fabech Hansson	Rikke	3658332	14	2000	2051	Dimeric macro- and supramolecular CXCR4 peptide antagonist conjugates for enhanced plasma stability and increased potency
Wright	Thaiesha	3660059	15	2100	2150	Hydrolytically stable maleimide-end functionalized polymers for site-specific protein conjugation
Pizarro	Brandon	3660574	16	2100	2148	Techno-economic analysis of a plant-based platform for resveratrol production
Quadir	Mohiuddin	3662388	17	2100	2146	Polycarbonate-derived, stimuli-responsive block copolymers of linear and dendritic topology as nano-scaffolds for targeted drug delivery applications
Chirmade	Tejas	3662457	18	2100	2144	Mapping disulfide bond formation during in vitro refolding of antibody fragments
Dutta	Subhadeep	3662956	19	2100	2142	Combinatorial discovery of ligand-functionalized microbeads for unmethylated and methylated DNA binding application
Matthews	Alexandra	3667210	20	2100	2140	Process changes and risk mitigations in response to supply chain shortages in clinical manufacturing of an antibody therapeutic
Sharma	Bhanushee	3646735	21	2100	2138	Accurate multi-endpoint molecular toxicity predictions in humans with contrastive explanations
Tian	Hao	3651084	22	2100	2136	Exploration of protein conformational space with variational autoencoder
Xiao	Sian	3651631	23	2100	2134	Identifying protein allosteric sites through automated machine learning
Ran	Xinchun	3652997	24	2100	2130	Deep learning framework to predict the impact of mutations on hydrolase efficiency
Fan	Byron	3655501	25	2100	2128	Using high-throughput screening to develop small molecules that inhibit microcompartment assembly
Zhou	Junhan	3642589	26	2100	2126	Clickable perfluorocarbon nanoemulsion for ¹⁹ F MRI and multi-model cellular detection

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Kim	NaHee	3647863	27	2100	2124	Highly sensitive fluorescent probe for the detection of ATP and its bioimaging applications in cancer cells and stem cells
McCarthy	Scott	3648728	28	2100	2122	Development of enzyme-linked immunoassays (ELISAs) for detection of anti-SARS-CoV-2 antibodies in sera
Yang	Yun Jae	3653342	29	2100	2120	Dual excitable and emissive benzorazol-based ratiometric quinone oxidoreductase-1 probe for mouse organ and tumor tissue analysis
Jung	Yun Lim	3653350	30	2100	2121	Systematic study on the discrepancy of fluorescence properties between in solutions and in cells: Super-bright, environment-insensitive benzocoumarin dyes
Han	Xuan	3654102	31	2100	2123	Mirror image aptazyme: New tools to detect structured RNAs
Jaimes	Paulina	3654970	32	2100	2125	InP QD based oil-in-water micelles for photon upconversion in biology
He	Yanpu	3657065	33	2100	2127	Informing the dosing schedule design of cancer immunotherapy by monitoring the size variation of tumor draining lymph nodes
Shil	Anushree	3658225	34	2100	2129	Two-photon fluorescent probes for ratiometric imaging of γ -glutamyl transferase
Schultz	Aubrey	3647153	35	2100	2131	Portable device for temperature control during isothermal nucleic acid amplification tests for point-of-care diagnostics
Yang	Hyunjun	3661222	36	2100	2145	FLAMES multi-dimensional spectral microscopy enables the quantitative determination of distinct amyloid strains
Kachwala	Mahera	3652675	37	2100	2147	Hybridization chain reaction and CRISPR-Cas systems for disease diagnostics
Probst	David	3660697	38	2100	2149	Development of a closed bipolar electrode (CBPE) based enzyme sensor for detection of lactate using microelectrodes
Lavin Flores	Alexis	3661633	39	2100	2151	Morphology optimization of iron oxide nanoparticles as cancer theranostic agent
Sanchez	Andrew	3651447	40	2200	2250	Utilizing the antibody-catalyzed water oxidation pathway (ACWOP) to design a point-of-care sensor for infectious diseases
Bhalerao	Ketki	3654642	41	2200	2248	Point-of-care microfluidic array for blood cytokines
Barbieri	Eduardo	3648971	43	2200	2244	Rational design of nonwoven fabrics coated with bioactive peptides and polymers for high antibacterial activity
Seto	Tori	3651661	44	2200	2230	Multivalent small molecule-protein Megamolecules for targeted prostate cancer therapeutics and diagnostics
Yadav	Prateek Ranjan	3655244	45	2200	2228	Modelling <i>in-vitro</i> drug release from super-swelling hydrogel-forming microneedles
Sun	Jonathan	3702930	46	2200	2226	Rationally-Designed Supercharged Coiled-coil Proteins for siRNA-Delivering Lipoproteoplex Nanovehicles
Yan	Tian-Hao	3657831	47	2200	2224	Porous coordination cages based stimuli-responsive nanocarriers for controlled drug release
Sjoerdsma	Jenna	3658725	48	2200	2222	Targeted nanoparticle drug delivery for treatment of metastatic ovarian cancer
Mesa-Diaz	Nakya	3659379	49	2200	2220	Mutant miR-506-3p oligos: Promote differentiation in neuroblastoma cells
Shaw	Caleb	3660267	50	2200	2221	Biomedical technologies: Simulation of particle dispersion in porous media equivalent to mammal interstitial tissue

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Ogrodniczuk	Marcin	3662297	51	2200	2223	Shikimate kinase; searching for potential novel anti-tubercular agents
Heydarian	Neda	3644585	52	2200	2225	Effect of cationic branched polyethylenimine (BPEI) on the virulence factors of carbapenem-resistant <i>Enterobacteriaceae</i>
Moreno	Amy	3647237	53	2200	2227	Triggered release of light-responsive model prodrugs from polymeric core-shell nanocarriers via UV irradiation
Shelton	Joshua	3650328	54	2200	2229	Environmentally sensitive linkers for lymphoma targeted drug delivery
Michel-Souzy	Sandra	3653669	55	2200	2231	Encapsulin: A drug carrier for passage through the blood brain barrier or against liver fibrosis
Del Castillo	Trevor	3654436	56	2200	2245	Charge-altering releasable transporters (CARTs): Structure-function studies of polymeric materials for nucleic acid delivery
Archer	Andre	3652600	57	2200	2247	Metabolic pathway design using active subspaces
Mansell	Thomas	3655766	58	2200	2249	Chassis engineering for protein production and carbon source usage in <i>E. coli</i> Nissle 1917
Søgaard	Ane	3656917	59	2200	2251	Artificial signal transduction over biological membranes
Tvilum	Anne	3658310	60	2300	2350	Artificial chemical receptors as tool for drug delivery within primary T cells
Evans	Reginald	3659968	61	2300	2348	Improving efficacy of ADCs in tumors with heterogeneously expressed targets through coadministration of ADC and high avidity, low affinity antibodies in multiscale in silico models
Hooshmand	Nasrin	3660079	62	2300	2346	Gold nanorods for chemo-photothermal therapy of cancer
Mundaca Uribe	Rodolfo Andres	3660139	63	2300	2344	Microstirring pill improves bioavailability of orally delivered drugs
Rowley	Andrew	3660776	64	2300	2330	Collagen-mimetic LAIR-1 ligand peptide induces immunomodulatory effects in monocyte-derived cells
Xu	Shanhui	3648914	65	2300	2328	Engineering of phytosterol-producing yeast platforms for functional reconstitution of downstream brassinosteroid biosynthetic pathways
Schauer	Elizabeth	3652637	66	2300	2326	Sweet proteins: Engineering sugar transporters for biomanufacturing
Liu	Haijiao	3653228	67	2300	2324	Effect of RDP on neurogenic and osteogenic differentiation in dental pulp stem cells
Martinusen	Samantha	3652573	68	2300	2322	High-throughput discovery of selective nanobodies that modulate SARS-CoV-2 protease
Anderson	Michael	3655646	69	2300	2320	Tuning expression output using non-native sigma factors and variable length spacers
Ahern	Colleen	3660805	70	2300	2321	Understanding microbial plastics degradation of plastics via materials characterizations and transcriptomics analysis
Huang	Chien Hui	3653367	71	2300	2323	Bioorthogonally synthesized fluorescence chemical probes for sensitive quantification of butyrylcholinesterase (BChE) activity and the lactonase activity of paraoxonase 1 (PON1)
Wong	Han Teng	3647420	72	2300	2325	GRAS platform for food protein production and screening: A sweet concept
Roche	Fiona	3654489	73	2300	2327	reagent-free immobilization of acid phosphatase, amylase and glucose oxidase in pore-expanding mesoporous silica
Skouby	Rebecca	3659521	74	2300	2329	Therapeutic biosynthesis by enzymatic protein based materials
Bird	Cole	3649355	75	2300	2331	Generation and optimization of AraC/RhaRchimeric transcription factors for biotechnology

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Fu	Jinglin	3651609	76	2300	2335	Prevention of promiscuous peptides-enzyme aggregation by polyphosphate and DNA molecules
Mateen	Akilah	3661817	77	2300	2337	Photosensitizer-membrane-active peptide conjugates for <i>C. auris</i> inhibition
Ramirez	Aaron	3653213	78	2300	2339	Engineering protein nanoparticles conjugated with antigens towards a Q-fever vaccine
Shin	Matthew	3659813	79	2300	2341	Pluronic F127 preincubation approach to enhance bioconjugation of active ingredients to virus nanoparticles
Van Deventer	James	3662178	80	2300	2343	Systematic evaluation of conjugates on the yeast surface
Malani	Himanshu	3656538	81	2300	2345	Impact of charge variants on degradation of monoclonal antibodies
joshi	Srishti	3658021	82	2300	2347	Identification and characterization of carbonylation sites in trastuzumab biosimilars
Nitika	Nitika	3658464	83	2300	2349	Application of Raman spectroscopy for estimating protein aggregation in drug product
Shrivastava	Anuj	3656591	84	2300	2351	Prediction of percentage aggregate in a sample from DLS data using a machine learning algorithm
Li	Enya	3656459	85	2400	2454	Immobilizing bioluminescent proteins on a nanoparticle platform for improving imaging
Chen	Jeffrey	3640134	86	2400	2452	Engineering medium-chain fatty acid production in green algae
Carvalho	Caio	3655008	87	2400	2450	Thioesterase enzymes in the thioester-active enzyme (ThYme) database
Malani	Himanshu	3655622	88	2400	2448	Improved efficacy vs. potential risk of bevacizumab lysine variants
Young	Shannon	3646353	89	2400	2446	Purification of adeno-associated virus by single-pass tangential flow filtration (SPTFF)
Zhang	Junyan	3647637	90	2400	2444	Developing a late stage AAV final UF/DF process: A case study
Schwartz	Alexander	3652513	91	2400	2442	Virus risk mitigation in viral vector and gene therapy cell culture media
Griffith	Heather	3654724	92	2400	2440	Clarification strategies using Pall Seitz® depth filters for adherent and suspension adeno-associated virus culture
Barbieri	Eduardo	3661747	93	2400	2438	Design and selection of lentivirus-targeting ligands
Mittal	Manya	3656094	94	2400	2436	One-step chromatographic purification of human papillomavirus type 16 L1 protein from Pichia pastoris
Hellal	Malik	3658325	95	2400	2434	Next-generation transfection reagent for large scale AAV manufacturing : Efficiency, quality and traceability
Srivastava	Arvind	3661413	96	2400	2430	Viral vector manufacturing process utilizing novel cell lysis and impurity removal steps
Hart	William	3661040	97	2400	2428	Engineering suicide gene approaches to improve chemotherapeutic response in glioblastoma
Gulasarian	Amanda	3645214	98	2400	2426	Replacing tangential flow filtration with size exclusion chromatography for buffer exchange in an oncolytic virus manufacturing process
Alsop	Roger	3652456	99	2400	2424	Real time "live" in line conductivity set point (adjustment) and buffer blending for commercial scale chromatography
Tomoya	Norinobu		100	2400	2420	Drop in replacement study comparing JSR Amsphere A3 and Platform Resin to Reduce the Supply Risk of Protein A affinity Resin
Nitika	Nitika	3658721	101	2400	2421	Enablers of continuous downstream processing: CFIR as a case study
Yusaku	Mizuguchi		102	2400	2423	Improving Chromatographic Processes by Use of Supported Bed Devices

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Booth	Rebecca	3648607	103	2400	2425	Electrospun protein A membranes for purifying monoclonal antibodies
O'Neill	John	3650920	104	2400	2427	Maximising protein A resin productivity in a material constrained industry through use of repetitive batch chromatography
Ravi	Nivetita	3652782	105	2400	2429	Evaluating multi-product chromatography resin reuse for monoclonal antibodies in biopharmaceutical manufacturing
Vonholten	Joe	3659476	106	2400	2431	High throughput optimization of chromatography steps for viral clearance using retrovirus-like particles (RVLPs)
Zhang	Jennifer	3645366	107	2400	2435	Evaluation of flowthrough CEX for increased productivity and efficient removal of HMW
Dewanarayane	Randil	3651484	108	2400	2437	Polymeric-IgG receptors on core-shell magnetic silica nanoparticles for antibody isolation
VAsic	Jelena	3652017	109	2400	2439	Process intensification to increase productivity of protein A capture
VAsic	Jelena	3652156	110	2400	2441	Alkaline stability of Fc and VH3 interactions for different protein A resins
Nitika	Nitika	3656155	111	2400	2443	Complete or periodic continuity in continuous manufacturing platforms for production of monoclonal antibodies
Johansson	Hans	3659669	112	2400	2445	Elution of protein A binding proteins at high pH
Rushton	William	3662392	113	2400	2447	Two-step monoclonal antibody purification approach using mixed-mode chromatography
Nakamura	Masa	3654899	114	2400	2449	Strategies to increase recovery of low isoelectric products during chromatographic clarification of mAb CHO cell cultures
Yoshikawa	Daniel	3662625	115	2400	2451	Purification of a biosimilar using a two-column workflow
Moore	Brandyn	3653799	116	2400	2453	Purifying stem cells with light: Light-responsive cyclic peptide affinity ligands for microfluidic fractionation of human hematopoietic stem cells
McNulty	Matthew	3646487	117	2400	2455	Plant virus-based immunosorbent nanoparticles as a biopharmaceutical purification reagent for limited resource environments
Klewer	Karen	3658205	118	2400	2457	Mixed-mode membrane chromatography: Primary purification of AAV2 from crude lysate reveals distinctive species behavior
Bieder	Kimberly	3659103	119	2400	2459	Improved matrix design and interaction principles for membrane chromatography of virus based therapeutics
Akalu	Tsion	3647652	120	2400	2461	Effects of variable pressure conditions on viral clearance
Thakur	Garima	3653363	121	2500	2560	Modelling and control of single pass tangential flow ultrafiltration for continuous manufacturing of mAbs
Chu	Wenning	3654324	122	2500	2558	Development of peptide ligands for targeted capture of alpha-1 antitrypsin from CHO cell culture harvests
Gillespie	Christopher	3648574	123	2500	2556	Development of a holistic modeling strategy for enhanced process development
Hahn	Tobias	3653544	124	2500	2554	Software-implemented workflows for model-based downstream process development
Wong	Justin	3649150	125	2500	2552	Transient expression of varying gelatin fragment lengths in <i>Nicotiana benthamiana</i> to synthesize microcarriers for cell cultured meat production
Richards	Donald	3652821	126	2500	2550	Optimizing PK characteristics of a novel IgG ₁ recombinant mAb biotherapeutic by increasing galactosylation and total sialic acid content in a CHO fed-batch process

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Leach	Samuel	3650192	127	2500	2548	Combinatorial approaches to engineering the type 3 secretion system for improved protein production
Fox	Jerome	3657131	128	2500	2546	Comprehensive kinetic framework for controlling fatty acid biosynthesis in <i>E. coli</i>
Lau	Emily		129	2500	2544	Engineering a Genetically Encodable Biosensor for Reporting Intracellular Sulfation Activity
Sharma	Nilesh	3662565	130	2500	2542	Saltwater cell factories enabled by synthetic biology in the yeast <i>Debaryomyces hansenii</i>
Gangwar	Neelesh	3655588	131	2500	2524	Machine learning-based prediction model for the effect of media components on CQAs
Gkoutzioupa	Viktoria	3657169	132	2500	2538	Interconnection between upstream processing and primary recovery for monoclonal antibodies™ (mAbs) production in chinese hamster ovary (CHO) cells
Hubli	Geetanjali	3656119	133	2500	2536	Near Infrared spectroscopy to monitor amino acids in CHO Cell culture
Zheng	Amy	3654788	134	2500	2534	Modeling carbon metabolism of the diatom <i>Phaeodactylum tricornutum</i> due to genetic knockout of TAG degradation enzymes and to high light versus low light conditions
Peng	Danqia	3652648	135	2500	2530	Progress toward a more stable host CHO cell line by restoring DNA double-strand break repair genes
Rudibaugh	Thomas	3649445	136	2500	2528	Developing an <i>Ex Vivo</i> mesolimbic pathway model for exploring phenotypes linked with addiction
Yates	Kevin	3650584	137	2500	2526	Development of a plant generated therapeutic made in-flight to treat microgravity osteopenia
Gangwar	Neelesh	3655395	138	2500	2540	Targeting innovator charge variants profile using media components
Chiu	Tiffany	3649231	139	2500	2522	Exploring the potential of engineering polygalacturonase-inhibiting protein as an ecological, friendly, and non-toxic pest control agent
Sacco	Sarah	3650374	140	2500	2520	Metabolic engineering of high-productivity Chinese hamster ovary cell host lines for biomanufacturing
Trinh	Cong	3653199	141	2500	2521	Controlling selectivity of modular microbial biosynthesis of designer esters
Keating	Kevin	3651247	142	2500	2523	Towards a non-model gram-negative foundry: Combining standard parts with broad host range MoClo vectors
Wang	Sally	3656853	143	2500	2525	Dual plasmid system for sensing external oxidative stress and illuminating internal oxidative states resulting from genetic deletions – a curious interaction with quorum sensing
Pham	Anhuy	3660547	144	2500	2527	Colocalization of enzymes in <i>Saccharomyces cerevisiae</i> via dynamic assembly of Cas6-mediated RNA scaffold
Ploessl	Deon	3661686	145	2500	2529	Repackaged CRISPR/Cas9 platform recasts non-homologous end joining as a beneficial instrument in nonconventional yeast engineering
Wei	Shuang	3661790	146	2500	2531	Designing novel transcription factors for inducible gene expression in yeast
Li	Shuai	3662271	147	2500	2535	Dynamic control over central metabolic pathways improves stationary phase acetyl-CoA flux and citramalate production in engineered <i>E. coli</i>
Callisto	Alec	3671705	148	2500	2537	Cellular data recording and storage by in situ DNA synthesis
Falkman	Thomas	3644304	149	2500	2539	N-1 to purified product in a closed and connected single-use solution

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Rothstein	Samuel	3660745	150	2500	2541	Resonant sensors for continuous, contact-free measurement of mammalian cell culture in single-use vessels
Makambi	Wright	3643764	151	2500	2543	Histatin 5 variants improve resistance to proteolytic degradation by secreted aspartyl proteases from <i>Candida albicans</i>
Shanbaky	Ramsey	3678645	152	2500	2545	Variable pathlength control of TFF processes
An	Jong Min	3671719	153	2500	2547	Fluorescence-based hybrid complex for visualization of human glioblastoma
Perera	Josage Dinithi	3663170	154	2500	2549	Site specific genome editing mediated by triplex forming hydroxymethyl- β -tail-clamp peptide nucleic acids
Kang	Jihye	3662577	155	2500	2551	Engineering a novel DNA-binding protein TALE for developing a graphene oxide-based biosensor
Brown	Brooke	3644812	156	2500	2553	Identification of therapies for targeting hypoxia-mediated epithelial-mesenchymal transition in pancreas cancer
McNeil	Jordyn	3651649	157	2500	2555	Cardiovascular metabolome of the anoxia-tolerant red-eared slider (<i>Trachemys scripta</i>) through $^1\text{H-NMR}$ exploration
Lee	Sung Hyun	3652595	158	2500	2557	Distillation of global sensitivity and sloppiness analysis results explains consequences of low plasma membrane RAF abundance in EGFR-ERK signaling
Kirby	Monica	3653030	159	2500	2559	Influence of evolutionary trajectories on antibody affinity maturation
Thomas	Benjamin	3656703	160	2500	2561	Novel protein DNA circuit for the detection of Shiga toxin
Sveshnikova	Anastasia	3658311	161	2600	2620	ATLASx: a computational map for the exploration of biochemical space
Mi	Xuenan	3659048	162	2600	2622	Predicting the activities of drug excipients on biological targets using one-shot learning
Nguyen	Chi	3659665	163	2600	2624	Development of a phosphate-sensing cyclic peptide library
Sanderson	Todd	3660099	164	2600	2626	Scalable filtration and chromatography technologies for downstream purification of recombinant adeno-associated (rAAV) viral vectors
Myers	Paul	3662131	165	2600	2628	Analysis of multiple publicly available data sets identifies potential targets for combination therapy to prevent hypoxia-driven epithelial-mesenchymal transition in pancreas cancer
Royce	Jonathan	3651991	166	2600	2630	Prioritizing diversity and employee benefits equality to drive international expansion
O'Donnell	Kelsey	3664784	167	2600	2634	Diversity, inclusion & belonging: The DNA of reimaging Amgen in Cambridge, MA
Ercek	Danielle	3702929	168	2600	2636	Synthesizing Biology Across Scales (SynBAS) Training Program – A Convergent Approach to Synthetic Biology Graduate Education
Samuel	Shiny	3659556	169	2600	2638	Reovirus-3 infection kinetics in CHO cell monolayers simulated by a simple cellular automaton model
Berckman	Emily	3648495	170	2600	2640	Purification of measles virus using heparin pseudo-affinity chromatograph
Ramakrishna	Anjali	3647504	virtual	2000	2037	Multi-wavelength UV-based PAT tool for measuring protein concentration
Ramakrishna	Anjali	3648588	virtual	2400	2422	Optimization of multi-flow rate loading strategy for process intensification of protein A chromatography
Jia	Shang	3657902	withdrawn	2200	2246	Hydrophilic functionalities in water-soluble heptamethine for in vivo SWIR imaging