

Abstracts are sorted on first author last name

Poster Nr.	First author first name	First author last name	Abstract title	Poster availability
1	Matias	Adúriz Guerrero	Nanobody sequences from wild South American camelids reveal a structural guided evolution of the paratope	Virtual only
2	Angham	Ahmed	Camelid VHHs Bind the Enterohemorrhagic Escherichia coli O157:H7 Virulence Factor Intimin Using a Distinctive Mechanism Involving Framework Residues	Virtual only
3	Stephanie	Anbuhl	Modulating chemokine receptor CXCR4 oligomerization and signaling using various multivalent VHH formats	Live available @Brussels
4	Gabriel	AYMÉ	Development of a highly specific and sensitive VHH-based sandwich immunoassay for the detection of the SARS-CoV-2 nucleoprotein	Live available @Brussels
5	Marlies	Ballegeer	New single domain antibody-based antivirals that target the fusion protein of human metapneumovirus	Virtual only
6	Nick	Bergkamp	Selective targeting of ligand-dependent and -independent signaling by GPCR conformation-specific anti-US28 intrabodies	Live available @Brussels
7	Damien	Bertheloot	Targeting extracellular inflammasomes using ASC-specific nanobodies	Virtual only
8	Marina	Bok	Development of a Nanobody immune library against rotavirus in a wild guanaco	Virtual only
9	Marina	Bok	Single domain antibody against SARS-CoV-2 virus derived from bovine coronavirus hyperimmune library	Live available @Brussels
10	Evangelia	Bolli	Targeted Repolarization of Tumor-Associated Macrophages via Imidazoquinoline-Linked Nanobodies	Live available @Brussels
11	Emma	Campbell	Expression of Nanobodies within a multi-domain enzyme switch system	Virtual only
12	Frederic	Cawez	Unravelling the mechanism of inhibition of TEM β -lactamases by nanobodies	Virtual only
13	Ross	Cheloha	Improved GPCR ligands using nanobodies	Virtual only
14	Dora Mugoli	Chigoho	Site-specific radiolabeling of a human PD-L1 nanobody via maleimide-cysteine chemistry	Live available @Brussels
15	Marie-Laure	Custers	Applicability of cerebral open flow microperfusion and microdialysis to quantify a brain-penetrating nanobody in mice	Live available @Brussels
16	Tânia F.	Cotódio	Synthetic nanobodies targeting SARS-CoV-2 spike protein	Virtual only
17	Timo	De Groof	Targeting the Latent Human Cytomegalovirus Reservoir with Virus Specific Nanobodies	Live available @Brussels
18	Kim	De Veirman	The therapeutic potential of Actinium-225-Labeled CS1-specific single-domain antibodies for the treatment of Multiple Myeloma	Live available @Brussels
19	Noemi	Declerck	A convenient labeling strategy for the preparation of bimodal tracers carrying Tc-99m and IRDye800CW for intraoperative tumor recognition and delineation	Live available @Brussels
20	Gillian	Dekkers	Pushing the development of anti-idiotypic VHH through immunization and/or panning	Live available @Brussels
21	Elian	Dupré	Nanobodies: New tools to investigate and to modulate Tau pathway of neurodegeneration	Live available @Brussels
22	Elodie	Duray	Anti-CD38 nanobodies as theranostic agents for multiple myeloma	Live available @Brussels
23	Thomas	Eden	Affinity-matured Nanobodies from Llama IgH transgenic mice	Live available @Brussels
24	Marie	Eggers	Targeting B cells and plasma cells with nanobody-based IgG2a heavy chain antibodies against CD38, CD39 and CD203	Live available @Brussels
25	Funmilayo O.	Fagbadebo	A Nanobody toolset for the characterization of the mitochondrial Rho GTPase, Miro1	Live available @Brussels
26	Thomas	Fontaine	Harnessing the Confo® technology for the discovery of functional agonist antibodies targeting G-protein coupled receptors.	Live available @Brussels
27	Desiree I.	Frecot	Nanobodies targeting the immune checkpoint SIRP α for imaging and functional modulation	Live available @Brussels
28	Hansjörg	Götzke	The ALFA system: One tag – Three sdAbs – Unlimited applications	Live available @Brussels
29	Vaiva	Gradauskaite	Nanobody-based conditional cell-retargeting of attenuated Canine Distemper Virus	Live available @Brussels
30	Julia	Hambach	Targeting CD38-expressing Multiple Myeloma Cells using Nanobody-based CD38-specific Bispecific Killer Cell Engagers (BiKEs)	Live available @Brussels
31	Lisa	Haueis	Cell-free Synthesis of Nanobodies: A promising new approach for screening and functional studies	Virtual only
32	Lea M.	Huber-Hürlimann	Development of BamA-targeting nanobodies as novel bio-antibiotics	Live available @Brussels
33	Akihito	Inoue	Construction of mini Q-body using the nanobody to detect chemotherapy agent	Virtual only
34	Annabel	Itterbeek	Nanobodies as a new diagnostic tool for Mycobacterium bovis - Optimization of alpaca nanobody displaying phage library preparation	Live available @Brussels
35	Benedikt	Jedlitzke	Photocaged Nanobodies for Spatiotemporal Control of Cellular Processes with Light	Virtual only
36	Ivana	Jovčevska	Camelid α -FREM2 nanobody decreases proliferation of glioblastoma stem cells and localizes on their surface	Live available @Brussels
37	Nazli Eda	Kaleli	From Immunoglobulin G (IgG) to single domain antibody (sdAb): Camelization of an anti- Vascular Endothelial Growth Factor (VEGF) IgG through antibody engineering approach	Live available @Brussels
38	Sana Khan	Khilji	De novo production and characterization of Globo H targeting Nanobody	Live available @Brussels
39	Yong Joon (Jeffrey)	Kim	Potent neutralizing nanobodies resist convergent circulating variants of SARS-CoV-2 by targeting novel and conserved epitopes	Virtual only
40	Michelle	Koerselman	Controlled release of heavy chain only antibodies blocking joint inflammation	Virtual only
41	Paul-Albert	König	Structure-guided multivalent nanobodies block SARS-CoV-2 infection and suppress mutational escape	Live available @Brussels
42	Anja	Kopp	Biochemical and structural characterization of GSDMD targeting nanobodies	Live available @Brussels
43	Josephine	Krenz	Depletion of autoantibody-producing plasma cells with bispecific heavy chain antibodies	Live available @Brussels
44	Benedikt	Kuhn	Conformation-specific nanobody selection for structural biology of solute carriers	Virtual only
45	Marjolein	Kuijpers	Optimization of a C-terminal tag for production, purification and site-directional functionalization of VHH	Live available @Brussels
46	Sushant	Kumar	Plugging a transporter with a nanobody: Structural and biochemical studies of a Transporter-VHH complex and its implications on the transporter's dynamics	Virtual only
47	Gabriel	Lassabe	Development of anti-human IgM nanobodies and recombinant calibrators as universal reagents for serological diagnosis of infectious diseases	Live available @Brussels
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49	Puja	Majumder	Nanobody binders for Multi-Drug Efflux Transporter QacA: Generation and Functional Aspects	Virtual only
50	Lukasz	Mateusiak	LYMPHATIC MAPPING FOR SURGICAL GUIDANCE USING FLUORESCENTLY LABELED MANNOSE RECEPTOR-TARGETING NANOBODIES	Live available @Brussels

51	Stephan	Menzel	Nanobodies Blocking the Ectonucleotidases CD39 and CD73	Virtual only
52	Demián	Monti	Development of Nanobodies against Mal de Río Cuarto virus major viroplasm protein P9-1 for diagnostic sandwich ELISA and immunodetection	Virtual only
53	Francisco	Morales-Yáñez	Nanobody-based immunoassays: addressing the need for improved sensitivity and specificity in medical diagnostics	Live available @Brussels
54	Faith	Njeru	APPLICATION OF NANOBODY AS A DIAGNOSTIC TOOL AND THEIR ANTIVIRAL PROPERTIES AGAINST MAIZE LETHAL NECROSIS	Virtual only
55	Maria Florencia	Pavan	Neutralizing single domain antibodies against SARS-CoV-2 as potential antiviral molecules	Live available @Brussels
56	Qiang	Peng	Formylglycine generating enzyme catalyzed site-specific nanobody modification in a continuous-flow reactor	Virtual only
57	Martin F.	Peter	Nanobody-based inhibition of the membrane transporter HiSiQM, an essential player in LPS sialylation in pathogenic bacteria	Virtual only
58	Nele	Plehiars	Targeting receptor-mediated transcytosis at the blood-cerebrospinal fluid barrier: VHHs as CNS shuttles	Virtual only
59	Sebas	Pronk	Single Domain Antibodies as Carriers for Intracellular Drug Delivery: A Proof of Principle Study	Live available @Brussels
60	Sille	Remm	Nanobodies aid the structure determination of a mycobacterial membrane transporter by combining crystallography and cryo-EM approaches	Live available @Brussels
61	Magdalena	Rodak	An in vitro and in vivo evaluation of anti-HER2 2Rs15d nanobody labeled with 225Ac as a potential molecule for radioimmunotherapy	Virtual only
62	Alejandro	Rojas-Fernandez	Potent neutralization of clinical isolates of SARS-CoV-2 multiple variants	Virtual only
63	Iebe	Rossey	An hRSV-neutralizing prefusion F-specific single domain antibody that binds to a membrane-proximal site on F	Live available @Brussels
64	J.-Pablo	Salvador	Nanobody based lateral flow immunoassay for the rapid detection of Aflatoxin B1 in almond milk	Live available @Brussels
65	Gabriel	Salzman	The Structural Basis of GPR56/ADGRG1 Regulation in the Central Nervous System	Virtual only
66	Animesh Sarker	Sarker	Affinity maturation of structure-guided scFv antibody directed to Fu-bc epitope of dengue virus envelope protein	Virtual only
67	Waldemar	Schäfer	Using membrane-protein specific nanobodies to enhance targeting of AAV gene therapy vectors with reduced viral loads	Virtual only
68	Bert	Schepens	Nanobodies to fight current and future SARS-CoV-related viruses	Live available @Brussels
69	Melanie	Scherer	Ultra potent multivalent neutralizing single-domain antibodies against Canine Distemper Virus	Live available @Brussels
70	Lisa	Schiffelers	Nanobodies against GSDMD abrogate inflammatory cell death	Live available @Brussels
71	Sascha	Schiffrin	Overcoming the Challenges of Implementing Accurate Mass MS for Routine Nanobody Analysis	Live available @Brussels
72	Daniel	Scholl	A Topological Switch in the Cystic Fibrosis Transmembrane Conductance Regulator Modulates Channel Activity and Sensitivity to Disease-Causing Mutation	Virtual only
73	Angela I.	Schriek	Engineering anti-HIV-1 nanobodies with improved neutralization potency and Fc-mediated effector functions	Live available @Brussels
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75	Michèle	Sorgenfrei	Nanobody-mediated capture of gram-negative pathogens for rapid diagnostics of bloodstream infections	Live available @Brussels
76	Paul	Stahl	Exploring applications of cell permeable anti-Survivin VHHs in cancer	Virtual only
77	Eva	Struijff	Identifying C5b6 specific VHHs to measure complement activation	Live available @Brussels
78	Yonas M.	Tesfamariam	Vaccinia virus-mediated delivery of bivalent AIM2 nanobodies define cell-type-specific inflammasome response in primary human cells	Live available @Brussels
79	Bjoern	Traenkle	Single-domain antibodies for targeting, detection and in vivo imaging of human CD4+ cells	Live available @Brussels
80	Jeffrey	Umotoy	A Nanobody-Based HIV-1 Engager (Nano-HIVE) Antibody for NK Cell-Mediated Clearance of HIV-1 Infected Cells	Live available @Brussels
81	Jelle	van den Bor	NanoB ^{Δ2} : Combining nanobodies with nanoBRET technology	Live available @Brussels
82	Linde	Van Landuyt	Single-domain antibodies for biopharmaceutical targeting to the lysosome	Live available @Brussels
83	Loes	van Schie	GlycoVHH: a synthetic glyco-engineering approach to increase VHH versatility	Live available @Brussels
84	Filippo	Vascon	Anti-LexA Nanobodies as Novel Inhibitors of the SOS Response in Escherichia coli	Virtual only
85	Teresa R.	Wagner	NeutrobodyPlex - Nanobodies to monitor a SARS-CoV-2 neutralizing immune response	Live available @Brussels
86	Justin D.	Walter	Bispecific sybody constructs neutralize SARS-CoV-2 variants and mitigate emergence of drug-resistance	Live available @Brussels
87	Justin	Walter	Have the cake and eat it too: NestLink allows the pre-clinical screening of over 100 drug-like nanobodies in a single animal	Live available @Brussels
88	Yessica	Wouters	Identification and In Vivo Validation of Brain-penetrating Nanobodies	Live available @Brussels
89	Jennifer Deborah	Wuerth	Tracking and triggering STING-dependent innate immune signaling using nanobody tools	Live available @Brussels
90	Katerina	Xenaki	Homogeneous tumor targeting with a single dose of HER2-targeted albumin-binding domain-fused nanobody-drug conjugates results in long-lasting tumor remission in mice	Live available @Brussels
91	Yufei	Xiang	Integrative proteomics identifies thousands of distinct, multi-epitope, and high-affinity nanobodies	Virtual only
92	Yufei	Xiang	Development of a novel inhalation therapy for SARS-CoV-2	Virtual only
93	Ines	Zettl	Evaluation of Bet v 1-specific nanobodies for treatment of birch pollen allergy	Virtual only
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96	Iwan	Zimmermann	Sybodies – a rapid and reliable path towards conformation-specific affinity reagents for structure determination and beyond	Live available @Brussels

Selected talk Nanobodies

Selected talk Trends