

ZYMERA

BIOSYNTHETIX

PRECISION LIFE SCIENCES

PRECISION LIFE SCIENCES & COLD-CHAIN INTEGRITY

7	20+	MEA	DSO
GLOBAL PARTNERS	YRS EXPERIENCE	COVERAGE	DUBAI HQ

BIOLOGICS & CELL DISCOVERY · GENOMICS · ADVANCED IMAGING · PRECISION MEDICINE

COLD-CHAIN INTEGRITY · CELL & GENE THERAPY · LIQUID HANDLING

OPERATIONAL EXCELLENCE

THE ZYMERA HUB

A specialized techno-commercial FZCO centralizing the procurement and distribution of high-end scientific infrastructure across the MEA region. Built on 20+ years of domain expertise — bridging global innovation to regional needs.

DUBAI SILICON OASIS HQ

Building A1, Dubai Digital Park — DSO-IFZA, IFZA Properties. Positioned at the heart of UAE's tech & life sciences corridor for seamless Free Zone operations.

MAINLAND DISTRIBUTION

UAE mainland clinical distribution capability via vetted logistics partners, with full MOHAP-regulated medical device handling. Coordinated through info@zymerabio.com.

REGULATORY EXPERTISE

Proven track record with Emirates Drug Establishment (EDE) approvals and Dubai Trade clearances. Full compliance with MOHAP regulations for medical device imports.

MULTI-CURRENCY FINANCE

Dedicated accounts via Mashreq NEO BIZ with AED, USD & EUR accounts. Transparent Zoho-managed transactions. SWIFT: MSQHAEAD.

HUB & SPOKE MODEL

FZCO serves as exclusive Bill-To for global procurement and Cross-Trade. MEA re-export operations handled directly through IFZA Free Zone infrastructure.

STRATEGIC VISION

Evolving from specialized scientific trading into a biological manufacturing leader — supporting the long-term growth of the regional biotech ecosystem.

LEGAL NAME **Zymera Biosynthetix FZCO**	TRADE LICENSE **79827**	REGISTRATION NO. **78078**
TRN (VAT) **105373571600003**	INCORPORATED **February 16, 2026**	WEBSITE **www.zymerabio.com**

ALTLUSSHEIM, GERMANY · SINCE 1986

PARTNER 01 OF 07

METASYSTEMS PROBES GMBH

XCYTING FISH PROBES & REAGENTS

UAE AUTHORIZED REPRESENTATIVE

Authorized UAE representative for MetaSystems Probes GmbH — supplying the complete XCyting DNA FISH probe portfolio to clinical cytogenetics, hematology, oncology, and pathology laboratories across the UAE.

✓ IVDR Certified — EU Regulation (EU) 2017/746

IN VITRO DIAGNOSTIC REGULATION · HIGHEST REGULATORY STANDARD

MetaSystems Probes holds full IVDR certification — the most rigorous IVD regulatory framework globally. All IVDR-certified XCyting probes carry notified body certification ensuring clinical-grade performance, traceability, and post-market surveillance.

EU 2017/746 | Notified Body | Clinical Grade | Full Traceability | Hematology · Oncology · Prenatal

• Download IVDR Portfolio →

IVDR EU IVD Regulation RUO Research Use Only

XL · Locus-Specific Probes

IVDR RUO

BCR/ABL1, HER2, ALK, EGFR, MYC and 200+ loci. Break Apart, Dual Fusion, Deletion, Amplification formats for hematology and solid tumors.

CML/AML/MDS | ALL/CLL/MM | Solid Tumors | Break Apart | Dual Fusion

XA · Aneusomy Probes

IVDR RUO

AneuScore kits for Chr 13, 18, 21, X, Y. Rapid aneuploidy screening in amniocytes and chorionic villus samples.

AneuScore I/II/III | Prenatal | Postnatal

XOD · Custom Probes On Demand

RUO

Bespoke FISH probe design for unique genomic targets — ideal for translational research and novel rearrangement studies.

XCP / XCE · Chromosome Paints

RUO

24XCyte mFISH kit for complete karyotyping. mBAND high-resolution banding analysis.

24XCyte mFISH | mBAND

BROWSE ALL PROBES → IVDR CERTIFIED XOD CUSTOM

• COMPLETE PRODUCT CATALOG

MetaSystems Probes — First Edition

Full probe portfolio with product codes, specifications, and regulatory status.

⬇ Download PDF Catalog →

• CERTIFICATES & OFFICIAL DOCUMENTS — DIRECT DOWNLOAD

⬇ **ISO 13485:2016 Certificate**
EN ISO 13485 · Probes · Notified Body Certified

⬇ **ISO 13485 Certificate (USA)**
MetaSystems USA Quality Certificate

⬇ **IVDR Certificate 751166**
EU Reg. 2017/746 · BSI Notified Body

⬇ **Certificates of Analysis (CoA)**
Per-lot batch certificates

View all certificates & documents ↗



New Brochure

Explore Our Extended Portfolio of IVDR-Certified XCyting FISH Probes!

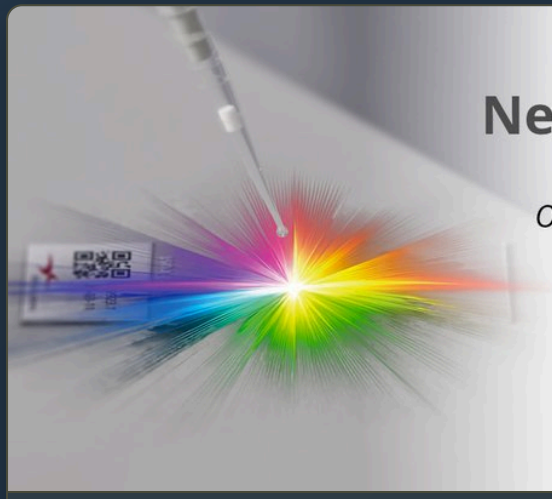
Download Brochure



NEW BROCHURE

MetaSystems Probes — First Edition Catalog. Full product range, codes, specifications, and regulatory status.

⬇ Download Brochure



New XOD Out Now!

Discover Our XCyting On Demand DNA FISH Probes.

Learn more



XOD · CUSTOM PROBES ON DEMAND

Full technical brochure for the XCyting On-Demand DNA FISH Probes range.

⬇ Download XOD Brochure

MetaSystems Probes

MANUFACTURED IN
Altlussheim, Germany

UAE TERRITORY
Exclusive Rep

CLINICAL DISEASE AREAS

- Leukemia
- Lymphoma NHL
- Multiple Myeloma
- MDS / MPN
- Solid Tumors
- Prenatal
- CLL
- Microdeletion

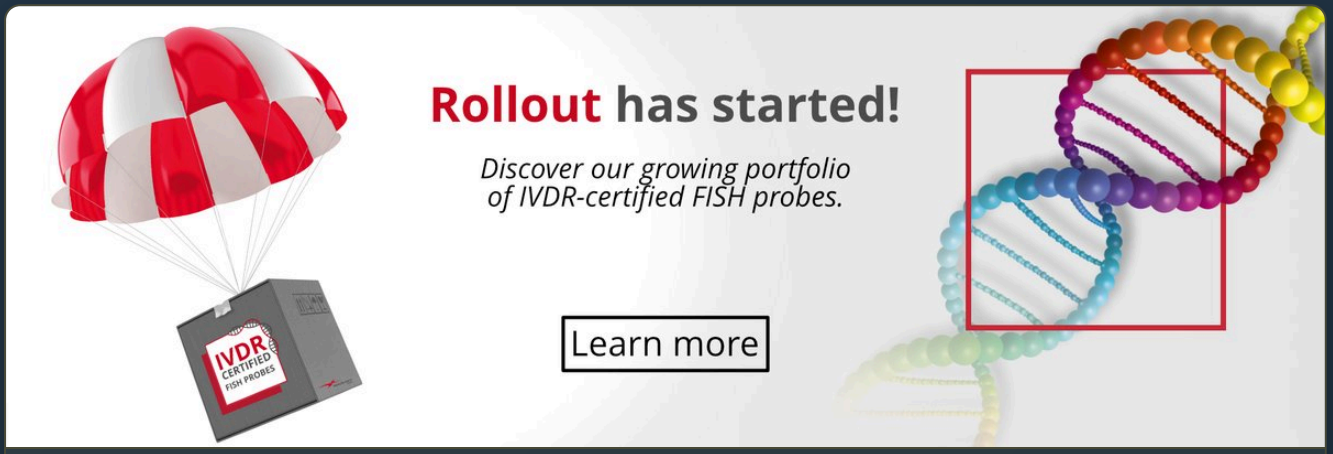
HIGHLIGHTED PROBES

XL BCR/ABL1 plus	IVDR
XL ERBB2 (HER2) amp	IVDR
XA AneuScore Series	IVDR
24XCyte mFISH Kit	RUO
XOD Custom Probes	RUO

metasystems-probes.com ↗

Est. 1986

> *"Successfully delivering German precision to UAE clinical laboratories since 2026."*



UAE ROLLOUT NOW LIVE

Growing portfolio of IVDR-certified FISH probes now available in the UAE.

⬇ Download IVDR Portfolio

ALTLUSSHEIM, GERMANY · 35+ YEARS

PARTNER 02 OF 07

METASYSTEMS HARD & SOFTWARE GMBH

METAFER · IKAROS 7 · NEON · AI LAB AUTOMATION

UAE AUTHORIZED REPRESENTATIVE

Authorized UAE representative for MetaSystems Hard & Software GmbH — the imaging systems and software arm of the MetaSystems family. Their platforms integrate **Deep Neural Networks (DNNs)** for automated chromosome classification, karyotyping, and metaphase scanning.

Deep Neural Networks (DNNs) — AI at the Core

US & EU PATENTED · EU IVD COMPLIANT

DNNs trained on thousands of clinical cases automatically segregate and classify banded chromosomes, generate karyogram proposals, and detect metaphase cells. MetaSystems holds a **US Patent** for AI-based chromosome analysis, and was granted **EU Patent EP3811287** for its Metafer-based DNN method for AI-assisted imaging of biological samples. **Read the announcement ↗**

Auto-Classification | Karyogram Proposals | Metaphase Detection | US Patented AI | EU Patented AI | Multi-Tissue

CERTIFICATES & OFFICIAL DOCUMENTS — DIRECT DOWNLOAD

ISO 13485:2016 Certificate
EN ISO 13485 · Instruments · BSI Certified

ISO 13485 Certificate (USA)
MetaSystems USA Quality Certificate

MDSAP Certificate
Medical Device Single Audit Program

View all certificates & documents ↗

METASYSTEMS FAMILY · MADE IN GERMANY

MetaSystems Hard & Software GmbH (devices & software) and MetaSystems Probes GmbH (reagents) are two specialised arms of one German company. Zymera Biosynthetix is the exclusive **UAE representative** for both.

Metafer 4.4
IN VITRO DIAGNOSTIC MEDICAL DEVICE
Fully automated slide scanning with DNN-powered metaphase detection, FISH spot counting, and tissue analysis.

Ikaros 7
IVD · US PATENTED AI
Industry standard karyotyping with DNN chromosome segmentation. Supports lymphocytes, bone marrow, amniotic fluid, chorionic villi.

Neon 2.0
DATA & CASE MANAGEMENT
Centralized multi-user case and image management connecting Metafer, Ikaros, and LIMS systems.

Altlussheim, Germany

metasystems-international.com ↗

LAB CUSTOMIZATION AREAS

Cytogenetics

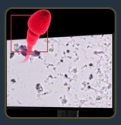


~40 years of digital microscopy expertise. DNN-based karyotyping via Ikaros, scalable multi-user metaphase scanning.

Metaphase Detection | Spot Counting | TissueFISH

⬇ Download CP — Metaphase Detection
⬇ Download CP — Spot Counting
⬇ Info Dossier — IKAROS 7.0 Features

Forensics

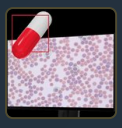


DNN-powered automated sperm detection workflow helps clear laboratory backlogs in sexual violence casework.

Sperm Detection

⬇ Download CP Brochure
⬇ Info Dossier — FSPD
⬇ White Paper — FSPD

Toxicology

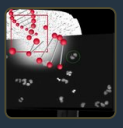


GLP-compliant, OECD-aligned automation for genetic toxicology testing — standardized scoring, reproducible results.

Metaphase Detection | Aberration Scoring | Comet Assay | MN Test | Ames Test

⬇ Download CP Brochure
⬇ White Paper — Metafer in Genetic Toxicology Testing

Biological Dosimetry



Microscope-based quantification of biological markers for rapid, standardized radiation dose assessment networks.

Metaphase Detection | Aberration Scoring | Comet Assay | Foci Counting

⬇ Download CP Brochure

Digital Pathology



Brightfield, fluorescence, DIC & darkfield combined in one Metafer workflow, with DNN-assisted evaluation.

Slide Digitization | TissueFISH

Microbiology

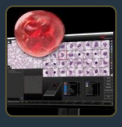


Automated digitization of Auramine-stained microbial samples with custom DNN pre-qualification workflows.

Mycobacteria Detection

⬇ Download CP Brochure

Cytology



DNN-based Extended Blood Cell Detection for automated WBC differential count and leukocyte morphology classification.

Blood Cell Detection

⬇ Download CP Brochure

HARDWARE COMPONENTS

LED Light Source — MetaLED FL for Fluorescence

Silent LED light source for fluorescence imaging. Homogenous illumination and high luminous flux.

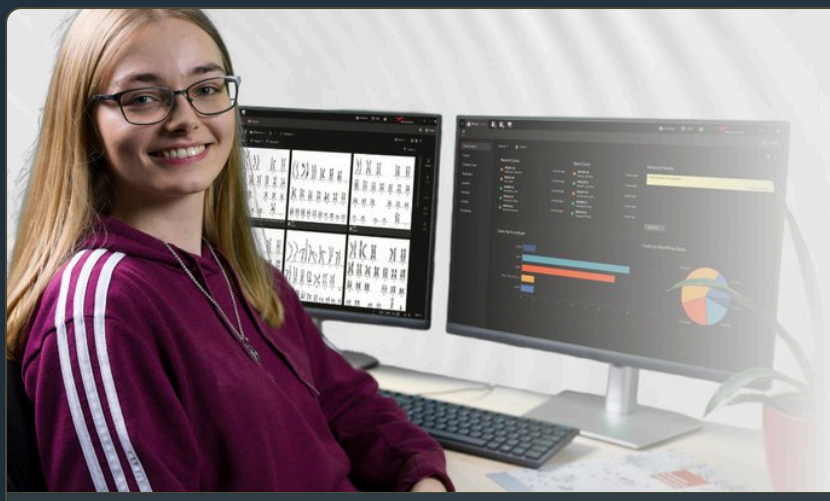
⬇ Download Datasheet

CMOS Camera — CoolCube 1P for Monochrome or Color Imaging

USB camera for either monochrome or color image capture. Superior signal-to-noise ratio enabled by intelligent binning technology.

⬇ Download Datasheet

ALL PRODUCTS → | CUSTOMIZATIONS | WEBSITE ↗



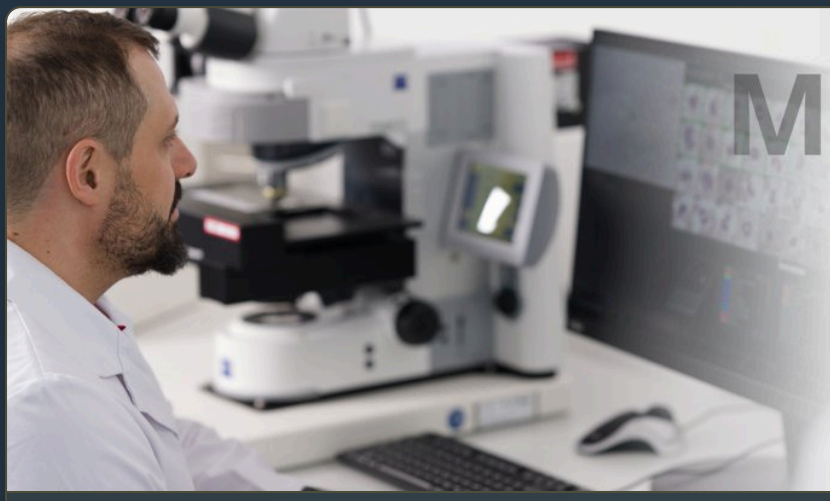
Neon 2.0

Your Entire Workflow.
At a Glance.

Learn more

NEON 2.0 · CASE & IMAGE DATA MANAGEMENT
Centralized case and image data management across your entire lab workflow.

⬇ Download Neon Brochure



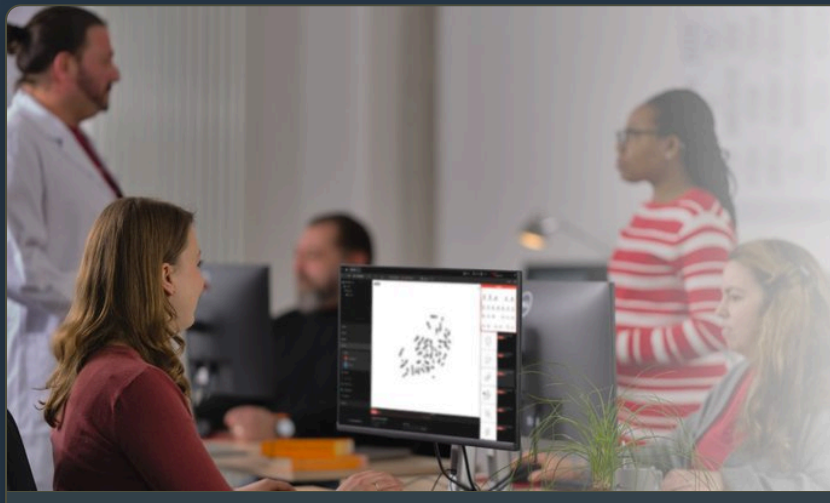
Metafer 4.4

Scan.
With Confidence.

Learn more

METAFER 4.4 · SCAN WITH CONFIDENCE
Fully automated slide scanning with DNN-powered metaphase detection.

⬇ Download Metafer Brochure



Ikaros 7.0

Everything You Know.
Just Improved.

Learn more

IKAROS 7.0 · EVERYTHING YOU KNOW, JUST IMPROVED
Industry-standard karyotyping with DNN chromosome segmentation.

⬇ Download Ikaros Brochure

ISRAEL / GLOBAL · 30+ YEARS

PARTNER 03 OF 07

FOURTEC

COLD-CHAIN MONITORING · DATA LOGGING · COMPLIANCE

GCC AUTHORIZED REPRESENTATIVE

Fourtec (Fourier Technologies) is a globally recognized leader in data-logging and environmental monitoring with 30+ years of experience. Zymera brings Fourtec's end-to-end solutions to GCC pharmaceutical, clinical, and laboratory environments.

DataNet Wireless System



Real-time wireless monitoring for pharmaceutical storage and GMP environments. ZigBee RF mesh network on the license-free 2.4GHz band, with auto-rerouting, long-range transmission, and SMS/email/siren alarm notifications — managed via DataSuite software.

DNR900A | DNL910A Temp | DNL920A Temp+RH | ⬇ Brochure PDF

MicroLite USB Loggers



Compact USB data loggers for temperature, humidity, current & voltage — direct USB connection, no cables required. The Boomerang feature auto-emails PDF reports on PC connection; up to 32K cyclic memory, with free DataSuite & FourtecLite app support.

LITE5008L | LITE5032L | LITE5032L-RH | LITE5032L-V-A Voltage | LITE5032L-ETX | ⬇ Brochure PDF

MicroLogPRO III Loggers



Standalone display loggers with local LCD readout for cold rooms and lab storage. Internal temperature & humidity sensors plus external NTC input, Boomerang auto-email PDF reports, up to 52K sample memory and up to 2-year battery life — water/dust resistant and DataSuite/FourtecLite compatible.

EC800-A Temp | EC850-A Temp+RH | ⬇ Brochure PDF

BluLite Bluetooth Logger



Accurate Bluetooth Low Energy logger for temperature (-20 to 60°C) and relative humidity (0-90%) with 32,000-sample cyclic memory. Connects directly to PC, tablet or mobile via DataSuite or the FourtecLite app; Boomerang auto-email alerts, IP54 rated, 21 CFR Part 11 compliant.

BluLite Bluetooth | ⬇ Brochure PDF

MicroAir WiFi Logger



Real-time WiFi-connected logger with integrated temperature & humidity sensors and an external NTC input. 802.11 b/g/n transmission managed via DataSuite or the FourtecLite app; Boomerang auto-email, 50K sample memory, rechargeable battery, IP54/NEMA4 rated, 21 CFR Part 11 compliant.

MicroAir WiFi | ⬇ Brochure PDF

PicoLite USB Logger



Compact, easy-to-use limited-use USB temperature logger for cold-chain transport. weBoomerang™ auto-emails trip reports to the shipper on connection; 16,000-sample memory, bi-colour alarm LED, IP68 rated, ~6-month CR2032 battery life — low cost, high reliability single-trip monitoring.

PicoLite | ⬇ Brochure PDF

SingleRide PDF Logger



Small, light and waterproof single-trip logger packaged in food-safe packaging for monitoring food, pharmaceutical, art, floral and blood transport. Recording starts/stops at the press of a button; plug into any PC USB port for an instant PDF report — no software or drivers required. 8,640-sample capacity, preset alarm levels (2°C/8°C), IP67 rated, complies with EN12830, 21 CFR Part 11.

SingleRide PDF | ⬇ Brochure PDF

SingleRide RH+Temp PDF Logger



Small, robust single-use Temperature & Humidity USB logger (6 data points) for monitoring temperature/humidity-sensitive goods in food manufacturing, pharma, laboratories and art delivery. One-button start/stop; plug into any PC USB port for an instant PDF report with no software or drivers. 17,280-sample capacity, 2-year shelf life, IP40 rated, complies with EN12830.

SingleRide TH PDF | ⬇ Brochure PDF

Dry Ice PDF Logger

Wide-range, extra-low temperature logger (-80°C to 70°C) for dry ice shipments, vaccine storage, cold chain, refrigerators and laboratories. Multi-trip, cable-free USB logger generating a PDF report with tracking events; 17,280-sample memory, replaceable battery (120-day life at -80°C), IP67 rated, user-defined alarm levels/sample rate/time zone, complies with EN12830.

Dry Ice Logger | ⬇ Brochure PDF

FULL PRODUCT RANGE

Fourtec 2026 Catalog

Complete data logging & monitoring product catalog — specifications, models & accessories.

⬇ Download 2026 Catalog

ALL PRODUCTS → | SOLUTIONS | FOURTEC.COM ↗

FOURTEC

30+ years of data-logging innovation. From warehouse to workstation — ensuring the integrity of every sample, reagent, and diagnostic product.

INDUSTRY SOLUTIONS

- **Food Manufacturing**
  Protecting integrity across cultivation, storage, processing & distribution.
- **Universities & Research Centers**
  Reliable monitoring supporting research protocols & data integrity.
- **Warehouse & Museums**
  Precision T&H control protecting stock, artifacts & collections.
- **Catering & Food Services**
  Safe T&H tracking through food prep, storage & delivery.
- **Pharmaceutical Manufacturing**
  Environmental data & alarms ensuring drug stability & compliance.
- **Industrial Applications**
  Process monitoring for aviation, automotive & electronics manufacturing.
- **Agriculture & Aquaculture**
  Pre- & post-harvest monitoring to maximize yield, cut spoilage.
- **Pharmacies**
  Safeguarding medication & vaccine storage conditions.
- **Wholesale & Retail**
  Preserving food quality & safety across the supply chain.
- **Hospital Environments**
  Critical T&H control for patient care & medical storage.
- **Laboratories**
  Stable, controlled conditions for accurate, replicable results.
- **Export & Last-Mile Transport**
  In-transit monitoring via MicroLite, PicoLite, BluLite & SingleRide.

PARAMETERS MONITORED

Temperature	Humidity (RH%)	Dry Ice / CO_2	WiFi / BT / Wireless

> *"Ensuring the integrity of your diagnostics from warehouse to workstation."*

ESPOO, FINLAND · ISO 13485

PARTNER 04 OF 07

MEDIX BIOCHEMICA

IVD RAW MATERIALS · ANTIBODIES · MOLECULAR REAGENTS

• GCC AUTHORIZED DISTRIBUTOR

Exclusive GCC distributor for Medix Biochemica — Finland's leading independent IVD raw material supplier. Enabling regional diagnostic manufacturers to build next-generation immunoassay and molecular diagnostic platforms.

• Antibodies
Monoclonal & polyclonal antibodies powering immunoassay tests.

• Antigens
Native & recombinant antigens for assay development & QC.

• Biospecimens
Human fluids, swabs & specimens for research and testing.

• Blockers & Stabilizers
Minimize assay interference, preserve protein function.

• Bulk Biologicals
Ethically sourced biological fluids, tissues & swabs.

• Enzymes
Clinical chemistry enzymes for accurate assay reagents.

• Immunoassay Kits
ELISA, ELISpot & Fluorospot kits for research use.

• Lipoproteins
HDL, LDL & triglycerides for QC and calibration.

• Molecular Reagents
MedixMDx master mixes — End-Point, Real-Time, Isothermal, Lyophilized.

• Processed Plasma & Serum
Specialized base matrices for manufacturing operations.

• Proteins
Serum proteins, albumins & gamma globulins for clinical use.

• Small Molecules
Vitamins, hormones & drug molecules conjugated for assays.

CONTRACT SERVICES

Contract Manufacturing | Contract Development | Contract Analytical

BROWSE PRODUCTS → | MEDIXMDX | CERTIFICATIONS

Medix Biochemica

Independent, ISO 13485-certified supplier of critical raw materials for the global IVD industry — proudly Finnish, truly global.

CLINICAL AREAS

Cardiac | Infectious Diseases | Diabetes | Hormones | Immunology | Inflammation | Tumor Markers | Neurology | Kidney | Serum Proteins | Clinical Chemistry | Drugs of Abuse | Biologicals | Metabolism | Serology | Veterinary

QUALITY CERTIFICATIONS

- ⬇ ISO 13485:2016 – Medix Biochemica
- ⬇ ISO 13485:2016 – Medix Biochemica USA
- ⬇ ISO 13485:2016 – Bioresource Technology
- ⬇ ISO 9001:2015 – Diaclone
- ⬇ ISO 9001:2015 – Diaclone (FR)
- ⬇ ISO 13485 – CANDOR Bioscience
- ⬇ ISO 9001:2015 – CANDOR Bioscience

PRODUCT CATALOGS

- ⬇ Portfolio Summary
- ⬇ Biospecimens & Bulk Biologicals
- ⬇ Cardiovascular Disease
- ⬇ Clinical Chemistry
- ⬇ Drugs of Abuse
- ⬇ Hormones
- ⬇ Infectious Diseases
- ⬇ Inflammation
- ⬇ MedixMDx Molecular Diagnostics
- ⬇ Immunology Research Products
- ⬇ Tumor Markers
- ⬇ Veterinary Markers

Espoo, Finland

medixbiochemica.com ↗

WERTHEIM, GERMANY · LIQUID HANDLING

PARTNER 05 OF 07

BRAND GMBH + CO KG

LIQUID HANDLING · VOLUMETRIC INSTRUMENTS · LAB CONSUMABLES

UAE AUTHORIZED REPRESENTATIVE

Authorized UAE representative for BRAND GMBH + CO KG — a German manufacturer renowned for precision liquid handling and laboratory equipment. *"BRAND. For lab. For life.®"*

• Liquid Handling
Transferpette® pro/S/electronic pipettes, HandyStep® touch repetitive dispensers, Dispensette® S bottle-top dispensers, Titrette® bottle-top burettes, accu-jet® S pipetting aid, PD-Tips.

• Life Science Consumables
PCR plates, microcentrifuge tubes, microplates, cuvettes, sample storage, sealing films.

• BVC BioChem-VacuuCenter
VACUUBRAND-powered vacuum pumping units (S1–S3) for aspiration, filtration & solvent evaporation in bio/chem labs.

• Pipetting Robots
Liquid Handling Station and robotic tips for automated medium-throughput workflows.

• Volumetric Instruments
Volumetric flasks, pipettes, cylinders, burettes — BLAUBRAND® Class A precision glassware.

• General Lab Products
Beakers, Erlenmeyer flasks, funnels, desiccators, stirring equipment, tubing.

• Product Carbon Footprint (PCF) — ISO 14067:2018
INDEPENDENTLY VERIFIED

BRAND's CO_2e transparency initiative makes the climate impact of products visible — externally validated by TÜV SÜD Industrie Service GmbH. The Transferpette® pro was among the first liquid handling products with a calculated carbon footprint, now followed by 100+ additional BRAND products.

• CERTIFICATIONS & OFFICIAL DOCUMENTS — DIRECT DOWNLOAD

⬇ **ISO 9001:2015 Certificate**
Quality Management · LGA InterCert · Valid to Oct 2026

⬇ **ISO 14001:2015 Certificate**
Environmental Management · TÜV Rheinland

⬇ **ISO 50001:2018 Certificate**
Energy Management · TÜV Rheinland · Valid to Dec 2027

⬇ **AEO Certificate**
Authorized Economic Operator · Customs

⬇ **DAkkS Accreditation**
Calibration Laboratory Accreditation (DIN EN ISO/IEC 17025)

Documents and Downloads ↗

LifeScience Main Catalog

Complete BRAND Life Science product range — pipettes, dispensers, consumables & volumetric instruments

⬇ DOWNLOAD PDF

PRODUCT GALLERY



Transferpette® Family



accu-jet® S



Titrette®

LIQUID HANDLING → | CONSUMABLES | VOLUMETRIC | BRAND.DE ↗

"BRAND. For lab. For life.®" — Simple, easy, and efficient liquid handling trusted by laboratories worldwide.

FLAGSHIP PRODUCTS

Transferpette® pro	PCF
Transferpette® S / electronic	Manual/Electronic
HandyStep® touch	Repetitive
Dispensette® S	Bottle-Top
Titrette®	Bottle Burette
accu-jet® S	Pipetting Aid
BLAUBRAND®	Class A Glass
BVC BioChem-VacuuCenter	S1–S3

Molecular Biology | PCR & Genomics | Cell Culture | Analytical Chemistry | QA/QC Labs

Wertheim, Germany brand.de ↗

> *"Simple, easy, and efficient — that's how lab work should be."*

BASEL, SWITZERLAND · 70+ YEARS IN CELL CULTURE

PARTNER 06 OF 07

LONZA BIOSCIENCE

CULTURE MEDIA · TRANSFECTION · PRIMARY CELLS · CELL & GENE THERAPY

• GCC & MIDDLE EAST DISTRIBUTOR

Authorized distributor for Lonza Bioscience across the GCC and wider Middle East. Over 70 years of cell culture expertise — from research-grade BulletKit™ systems to GMP-certified cell & gene therapy solutions used in 130+ global clinical trials.

CULTURE MEDIA & REAGENTS

• Primary Cell BulletKit™ Systems

RUO

Optimized culture systems pairing basal media with SingleQuots™ supplements for endothelial (EGM™-2), fibroblast (FGM™-3), smooth muscle (SmGM™-2), and airway epithelial (BEGM™) primary cells.

EGM™-2 | BEGM™ | FGM™-3 | SmGM™-2 | SingleQuots™

↗ View Primary & Stem Cell Products

⬇ Stem Cell Research Tools for Biologically Relevant Results (PDF)

• X-VIVO™ · Hematopoietic & Immune

RUO

X-VIVO™ 15 is the gold standard serum-free medium for T-cell, NK-cell, and dendritic cell expansion — widely cited in CAR-T and immunotherapy clinical trial literature.

X-VIVO™ 15 | T-Cell | NK Cells | Dendritic Cells

• TheraPEAK® · Cell & Gene Therapy

GMP RUO

Used in FDA-approved therapies and 130+ global clinical trials. AmpliCell® Cytokines for immune cell activation, 293-GT® Medium for high-yield AAV viral vector production.

TheraPEAK® | AmpliCell® | 293-GT® AAV | CAR-T

⬇ Download TheraPEAK® 293-GT® Media System (PDF)

⚙ PowerCHO® / ProCHO® Bioprocessing

GMP RUO

High-density CHO, Hybridoma, NS0, and insect cell production media. Available in research to 10,000L GMP-grade volumes.

PowerCHO® | ProCHO® | CHO DG44/K1 | 10,000L GMP

⬇ Download PowerCHO® / ProCHO® Bioprocessing (PDF)

INFOGRAPHICS & RESOURCES



Mesenchymal Stem Cells Infographic

From tissue regeneration to immunomodulation — MSC biology, isolation & characterization.



Clonetics™ & Poietics™ Diseased Cells Poster

In vivo relevance, in vitro results — disease-state primary cells across 6 tissue types.

⬇ Download Poster (PDF)

TOXICOLOGY STUDIES IN DRUG DEVELOPMENT

• ADME-Tox Portfolio

RUO

A substantial share of drug-candidate attrition stems from toxicities not recognized until late in clinical trials, driving up development costs. Understanding ADME-Tox (absorption, distribution, metabolism, excretion & toxicity) is central to early discovery — our portfolio spans hepatotoxicity, nephrotoxicity, respiratory, dermal & neurotoxicity models built on primary human cells and predictive in vitro assays.

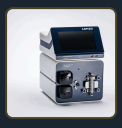
Hepatotoxicity | Nephrotoxicity | Respiratory | Neurotoxicity

⬇ View ADME-Tox Portfolio (PDF)

TRANSFECTION & ELECTROPORATION

⚡ 4D-Nucleofector® Platform

GMP RUO



Gold standard for hard-to-transfect primary cells. Modular system: X Unit (suspension), Y Unit (adherent 24-well), LV Unit (up to 1×10⁹ cells), 96-well Unit (CRISPR screens). 900+ cell-type protocols.

X/Y/LV/96-well Units | P1–P5 Kits | CAR-T Mfg | CRISPR Delivery

⬇ Download Nucleofector® Technology Portfolio (PDF)
⬇ Download 4D-Nucleofector® LV Unit PRO Datasheet (PDF)

ELECTROPHORESIS

• FlashGel™ & Agarose Portfolio

RUO



FlashGel™ delivers results in 5 minutes with built-in blue light — no EtBr needed. SeaKem® LE (world's most trusted routine agarose), NuSieve™, MetaPhor™ ultra-high resolution, PAGEr™ protein gels.

FlashGel™ | SeaKem® LE | NuSieve™ | MetaPhor™ | PAGEr™

⬇ Download FlashGel® Loading Buffers & Markers (PDF)
⬇ Choose the Lonza Agarose That's Right for You (PDF)

CELL ANALYSIS & QC

• MycoAlert™ · ToxiLight™

RUO QC



MycoAlert™ bioluminescent mycoplasma detection — critical for cell culture integrity. ToxiLight™ non-destructive cytotoxicity assessment via adenylate kinase release.

MycoAlert™ | MycoZap™ | ToxiLight™ | Lucetta™ 2 Luminometer

⬇ Download MycoAlert® Mycoplasma Detection (PDF)
⬇ Luminescent Cell-Based Assays (PDF)

PRIMARY CELLS AND MEDIA

• Primary Cells vs. Cell Lines

RUO

Primary cells, isolated directly from tissue, retain donor-specific characteristics — age, medical history & disease state — with low genetic mutation and close resemblance to native tissue biology, unlike immortalized cell lines. Our portfolio spans 100+ human & animal cell types across 20+ donors, paired with BulletKit® media formulated with the growth factors and hormones needed to preserve tissue-specific phenotype and consistent growth.

100+ Cell Types | 20+ Donors | BulletKit® Media | Ethically Sourced

⬇ Primary Cells and Media Guide (PDF)
⬇ Primary Cells vs. Cell Lines Comparison (PDF)
⬇ Primary Normal Human Cells and Media Infographic (PDF)

CELL & GENE THERAPY — CDMO SERVICES (SPECIALIZED MODALITIES)

Lonza Specialized Modalities — End-to-End CGT CDMO

MAKING THE MEDICINES OF TOMORROW · GMP · DISCOVERY TO COMMERCIAL

Lonza is a globally leading CDMO for cell and gene therapies — uniquely positioned to support drug developers from concept through clinical development to commercial manufacturing. With 25+ years of GMP manufacturing experience, 250+ process development projects, and 6 Pre-Licensing Inspections (PLIs) passed, Lonza accelerates development timelines, optimizes manufacturing, and navigates regulatory hurdles.

⚙ Process Development

Phase-appropriate development of robust, reproducible, commercially viable processes based on GMP design considerations. De-risking path to commercialization.

Bioassay Services

Full analytical methods lifecycle — development, optimization, qualification, and validation. Pre-developed fast-qualified assays for IND filing and first-in-human trials.

Regulatory Support

Expert regulatory team for accelerated pathways and special designations for CGT. Fast-track IND, BLA, and MAA support globally.

cGMP Manufacturing

Standardized tech transfers, manufacturing, and pre-licensing inspection readiness. 20+ Phase III / commercial projects supported.

25+	250+	160+
YRS GMP MFG	PROCESS DEV PROJECTS	CGT CUSTOMERS

CAR-T · TCR-T · NK Cells · AAV Vectors · Lentiviral Vectors · iPSC · mRNA · Plasmid DNA

CELLBIO SERVICES — CUSTOM RESEARCH



Lonza CellBio Services

30+ YEARS CUSTOM CELL EXPERIENCE

Custom Cell Isolation

30+ cell types from diverse tissues. Enzymatic, immunomagnetic & gradient methods.

Matched Donors · Fresh/Cryo

Cell Expansion

Up to 2×10^{10} cells. 1,500 vials. 12L suspension. Master & working cell banks.

Batch CoA · Cell Banking

Custom Media

Liquid 500mL–10,000L · Powder 1–7,000kg · SILAC · Custom packaging.

Phenol-red free

Pancreatic Islets

Fresh human pancreatic islets, diseased cells (IPF, psoriasis), limited edition.

Guaranteed Viability

CELLBIO SERVICES → · CULTURE MEDIA · TRANSFECTION · PRIMARY CELLS

LONZA.COM ↗

BOSTON, USA · COMPUTATIONAL DRUG DISCOVERY

PARTNER 07 OF 07

PAULING.AI

AI CHEMIST · VIRTUAL SCREENING · MOLECULAR DYNAMICS · SMALL-MOLECULE DISCOVERY

PAULING.AI

• MIDDLE EAST — REGIONAL POINT OF CONTACT

Pauling.AI is an autonomous AI chemist for drug discovery. Describe your protein target and its agent runs the computational chemistry pipeline end to end — structure preparation, pocket detection, large-scale screening, molecular dynamics, free-energy ranking and ADMET profiling — returning a ranked list of small molecules ready for wet-lab follow-up, with no GPU cluster, software licences or scripting to set up. Zymera Biosynthetix is Pauling.AI's authorized local point of contact for the Middle East, beginning with academic institutions.



WHAT PAULING.AI RUNS

• Large-Scale Virtual Screening
Docking against 10M+ commercially available compounds, or your own SDF library, after automated receptor preparation, protonation, minimization and QC.

• Binding Pocket Detection
Automatic pocket detection with interactive pocket selection.

• Selectivity Counterscreening
Screen against a second pocket or off-target protein; rank hits by selectivity.

• Molecular Dynamics Validation
GROMACS validation of the top-ranked hits.

• Binding Free Energy
MM-PBSA / ΔG ranking from MD trajectories.

• Pose QC & ADMET Profiling
PoseBusters checks on every pose, plus drug-like property profiles for ranked compounds.

• Membrane System Construction
Membrane systems to simulate ion channels and transporters.

• Hit Optimization
Iterate from an initial hit toward a lead.

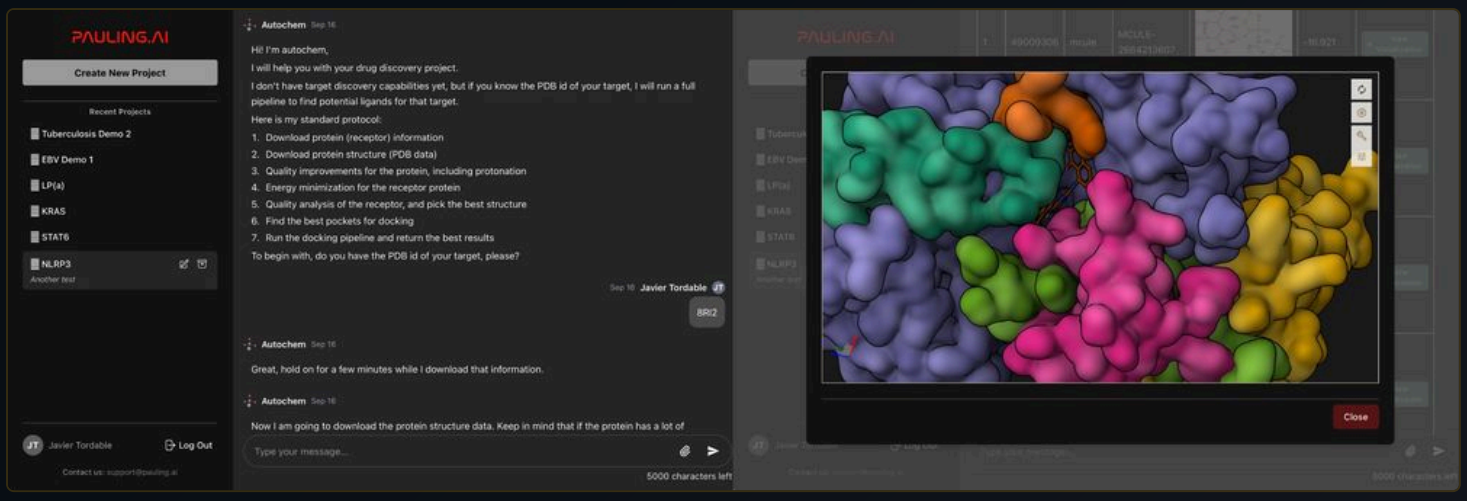
Upcoming | PROTACs | Molecular glues

WHERE IT APPLIES

Enzymes | Large protein complexes | GPCRs | Transmembrane proteins | Membrane transporters | Ion channels | Infectious disease | Metabolic disease | CNS disorders

> **Scope:** small-molecule discovery only — not antibodies, peptides, mRNA or gene therapy. Pauling.AI is a computational (in-silico) service; compounds are ordered and validated in your own laboratory.

DESCRIBE THE TARGET. THE AGENT DOES THE REST.



HOW IT WORKS — BRING US ONE TARGET

1 We sign an NDA
Your target, data and results stay yours.

2 You share your target
Structure or sequence, plus assay context.

3 We scope it
Screen, compute cost and timeline confirmed before work starts.

4 The agent runs
Prep, pockets, docking, MD and ADMET, end to end.

5 You get molecules
Complete report; compounds ready to order for the wet lab.

SECURITY & IP

Your targets and results are yours, always. Project data is isolated per engagement, shared models are not trained on your proprietary data without your consent, data is encrypted in transit and at rest, and every project has role-based access controls and audit logging.

METHODOLOGY — PUBLISHED BY PAULING.AI

Docking Protocol | Counter-Screening | MD & MM-PBSA | Synthon Screening

WORKING WITH ZYMERA

Zymera Biosynthetix shares Pauling.AI's approved materials with prospective institutions and companies, introduces prospective customers, coordinates introductory discussions and handles regional billing. Project scope, pricing and technical commitments are defined by Pauling.AI.

> *"You bring the biology. We deliver the chemistry."*

START WITH ONE TARGET | PAULING.AI

GET IN TOUCH

CONTACT & LOGISTICS

Reach out for technical, commercial, financial, or logistics enquiries.

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BUSINESS DOCUMENTATION

End-Use / End-User Declaration

Required prior to supply of controlled scientific, diagnostic & life sciences products. Complete, sign & return to info@zymerabio.com.

⇩ Download EUD Form (PDF)

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