Tecan Group Capital Markets Day 2019

IDXIII.

MÄNNEDORF, CH - JUNE 6, 2019



Agenda Capital Markets Day 2019

Time	Duration	Торіс	Presenter	
8:45 – 10:00		Empowering the Century of Biology	Achim von Leoprechting, CEO	
		Application focus: Genomics		
		Tecan's offering and strategy	Klaus Lun, EVP, Head Life Sciences Business	
		Customer presentation: Ambry Genetics	Joy Crandall, Director of Assay Automation	
10:00 – 10:15 15 min Coffee Break				
10:15 – 11:15		Application focus: Cell & Tissue Analysis		
		Tecan's offering and strategy	Klaus Lun, EVP, Head Life Sciences Business	
		Application focus: Protein Analysis		
		Tecan's offering and strategy	Klaus Lun, EVP, Head Life Sciences Business	
		Customer presentation: The Binding Site	Stephen Harding, CSO	
11:15 – 11:30	15 min	Coffee Break		
11:30 – 13:00		Tecan's Enabling Competencies		
		Innovation for the Century of Biology	Wael Yared, designated CTO and Head R&D	
		Operational Efficiency as the foundation	Ulrich Kanter, Head Operations & IT (presented by Achim von Leoprechting, CEO)	
		Focus topic: Partnering Business	Achim von Leoprechting, CEO	
		Summary & Close	Achim von Leoprechting, CEO	
		Q&A	All	



Empowering the

Century of Biology.

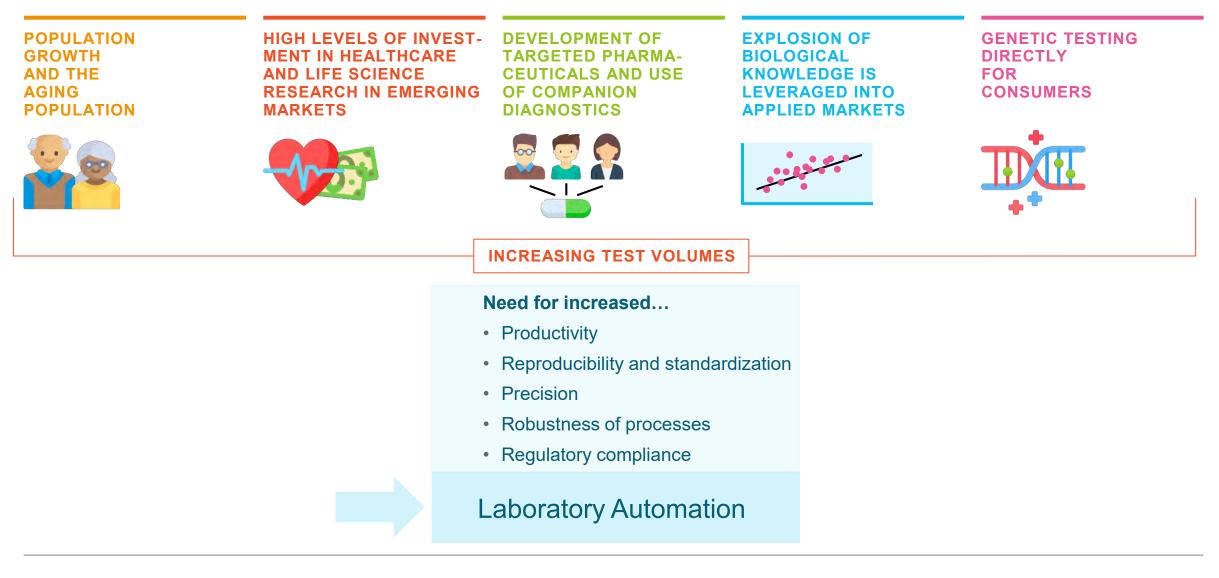
PAIDADA

DR. ACHIM VON LEOPRECHTING

CEO



Tecan Benefitting from Various Megatrends





Not Too Long Ago: The Human Genome Project THE WORLD'S LARGEST COLLABORATIVE BIOLOGICAL PROJECT EVER

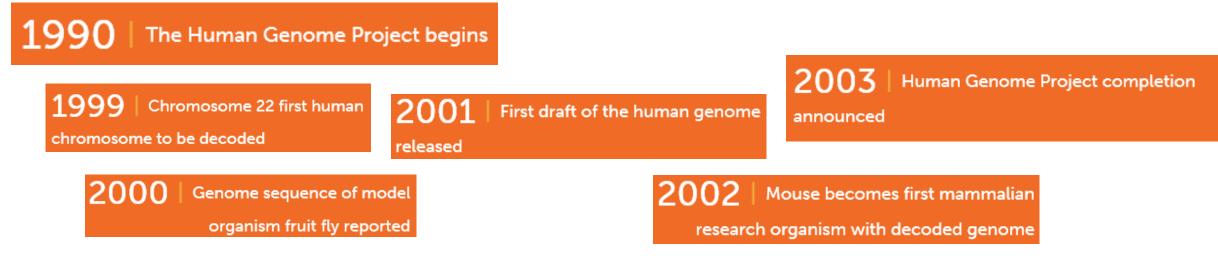
All About The Human Genome Project (HGP)



The Human Genome Project (HGP) was one of the great feats of exploration in history - an inward voyage of discovery rather than an outward exploration of the planet or the cosmos; an international research effort to sequence and map all of the genes - together known as the genome - of members of our species, *Homo sapiens*. Completed in April 2003, the HGP gave us the ability, for the first time, to read nature's complete genetic blueprint for building a human being.

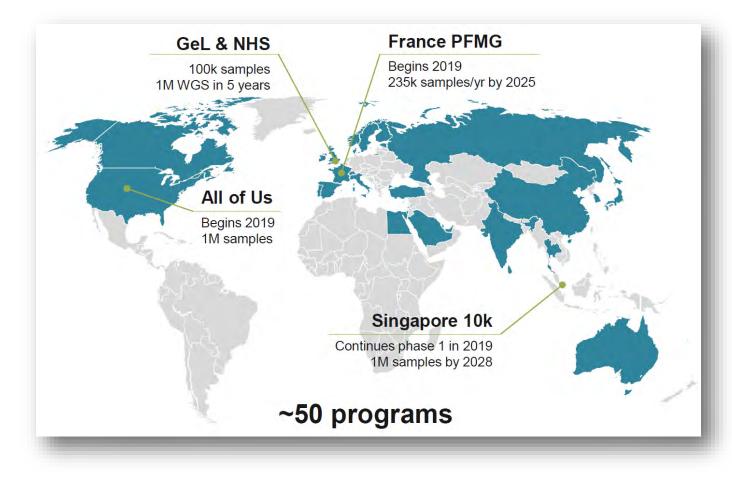


TECAI



Source: NIH, National Human Genome Research Institute, https://www.genome.gov/10001772/all-about-the--human-genome-project-hgp/#al-2

Population Sequencing Programs in Numerous Countries several millions of Human genomes to be sequenced in the coming 5-10 years

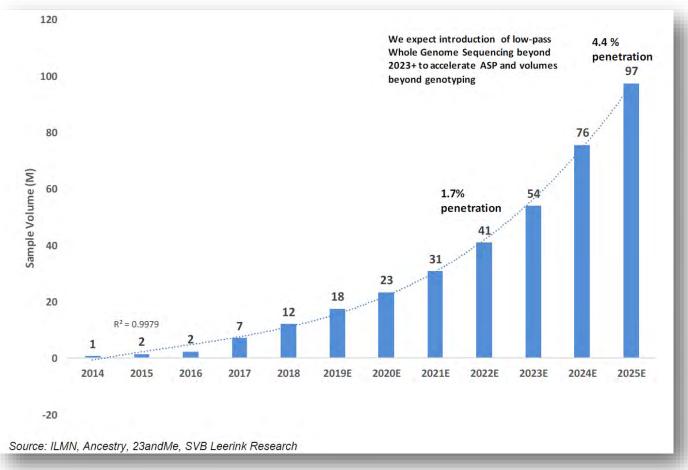


- Data of millions of genomes will benefit
 - Rare disease diagnostics
 - Drug discovery
 - Carrier status
 - Pharmacogenomics
 - Population wide susceptibilities
- Already today, Population Sequencing programs are significantly increasing diagnosis rates for rare diseases

BTECAN

Source: © 2019 Illumina Inc., Enabling the New Possible, Barclays Global Healthcare Conference, 13 March 2019

Consumer Genomics Sample Volumes Thriving PROBABLY THE STRONGEST EVIDENCE WE ARE TRULY LIVING IN THE CENTURY OF BIOLOGY



Ancestry research

(e.g. ancestry composition, DNA family, relative finder tool)

• Genetic health risks (genetic markers associated with risks for certain conditions e.g. BRCA1/BRCA2)

Wellness

(e.g. food intolerances, genetic weight)

Carrier status

(«carrier» for certain inherited conditions, e.g. cystic fibrosis, sichle cell anemia)

Traits

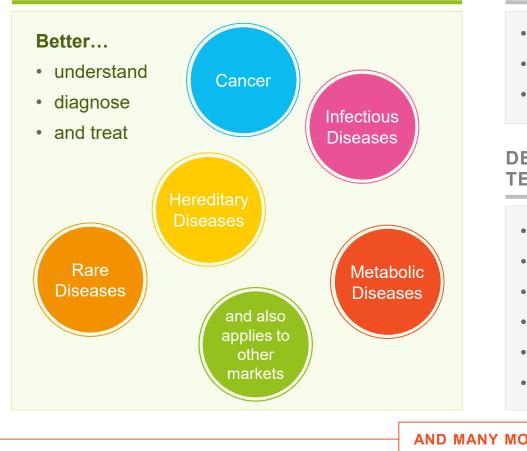
(likelihood of having certain characteristics)

Source: 2019 SVB Leerink LLC., What's in Your DNA? Consumer Genomics Market Poised to Deliver Longer-term; March 27, 2019



Tecan Competencies Empowering the Century of Biology FROM DISCOVERY OF NOVEL MEDICATIONS ALL THE WAY TO BETTER DIAGNOSIS OF DISEASES

HEALTHCARE USE



APPLICATIONS

- Genomics
- Protein analysis
- Cell & tissue analysis

DETECTION & ASSAY TECHNOLOGIES

- Sequencing
- PCR
- Mass Spectrometry
- Immunoassays
- Imaging
- Advanced Staining

AND MANY MORE

TECAN'S ENABLING COMPETENCIES

- Applications and Workflows
- Robotics and Automation
- Software and Informatics
- Detection and Imaging
- Precision Handling of Liquids
- Reagents and Consumables

All built on a robust foundation of:

- Product Development and Systems Integration Expertise
- Quality Management System
- Regulatory Expertise
- Efficient Operations



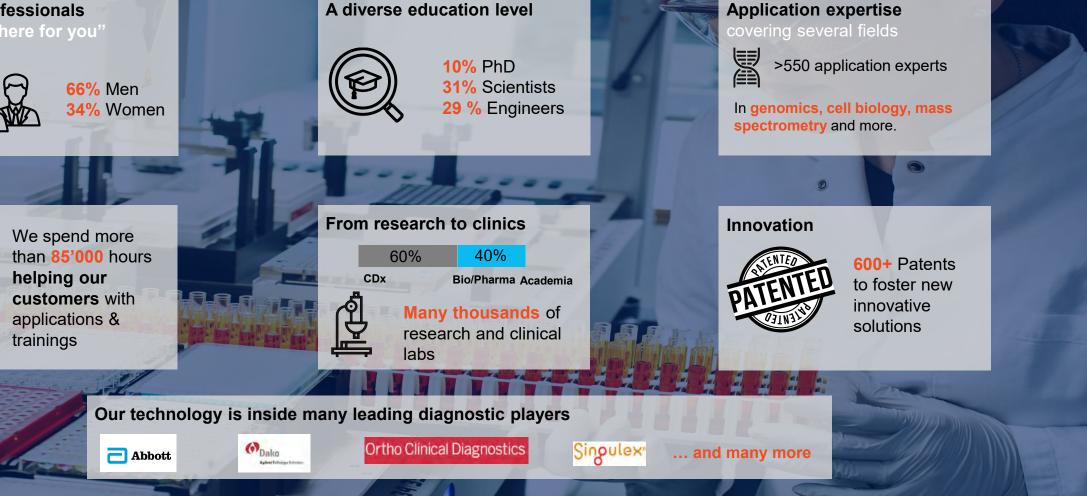
Tecan at a glance

~1'800 professionals "Always there for you"



100

helping our applications &

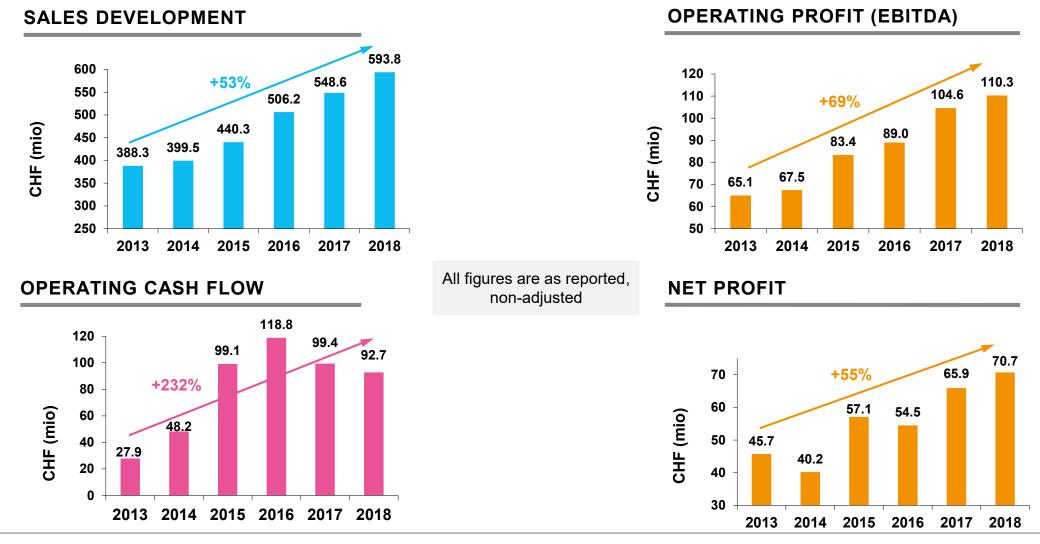


0

A diverse education level

TECAN

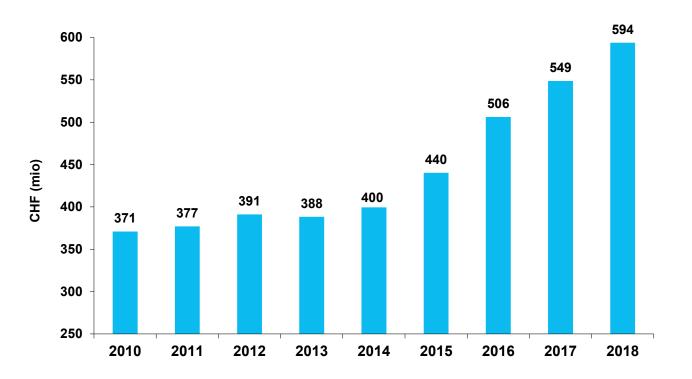
Successful Financial Performance in Recent Years MEGATRENDS TRANSLATING INTO GROWTH OPPORTUNITIES





Delivering Accelerated Growth REFINED STRATEGY AND ITS DEPLOYMENT PAYING OFF

SALES DEVELOPMENT



- Sales up by more than 50% since 2013
- Around two thirds of the increase derived from organic growth
- Major new instrument platform launches in both business segments
- Regional expansion, especially in China
- Expanding addressable market and recurring revenues through targeted acquisitions

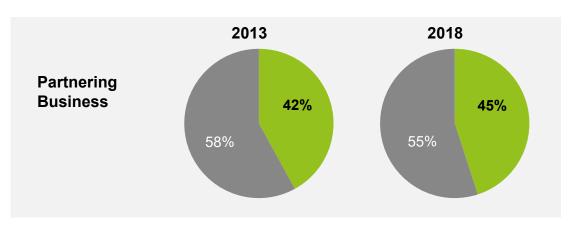
TECAN

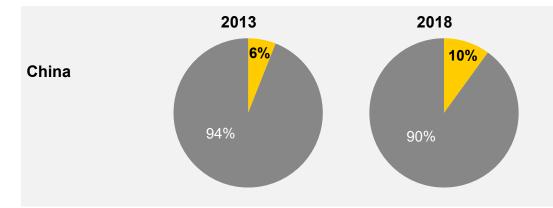
• Offering complete solutions for select application areas

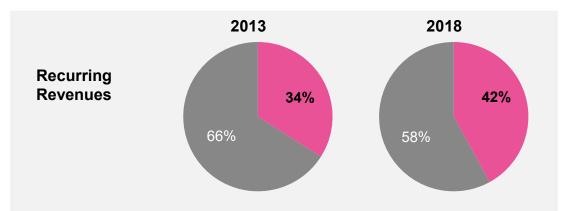
Delivering Accelerated Growth

FOCUSING ON HIGHER GROWTH AREAS AND REGIONS - COMPLEMENTED BY M&A

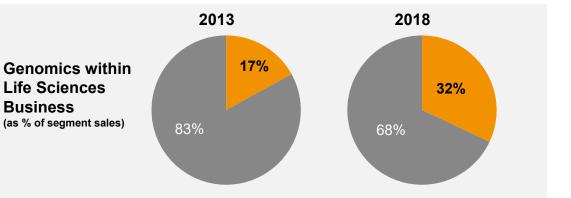
ABOVE AVERAGE GROWTH FROM¹





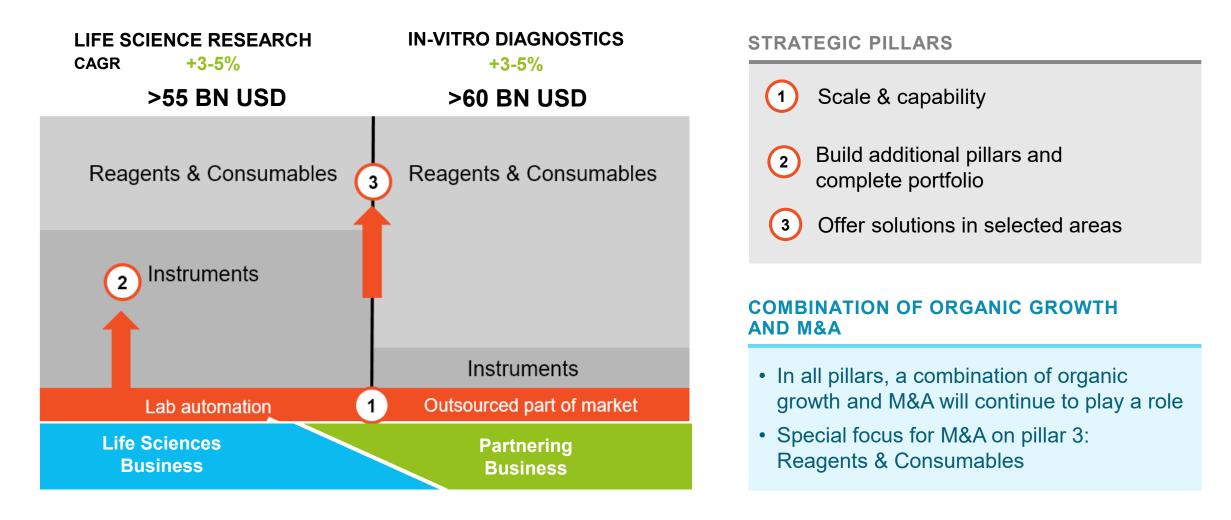






TECAN

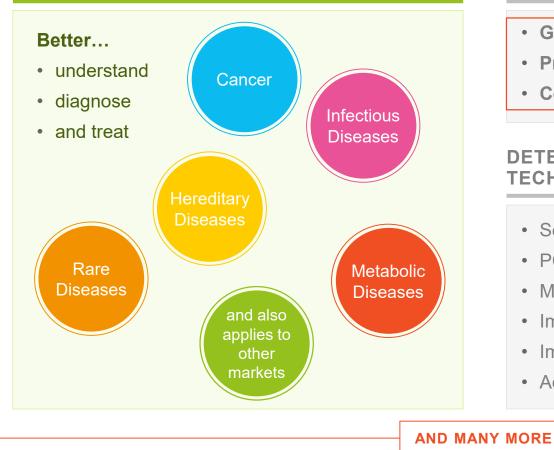
Continuing to Deploy Successful Corporate Strategy FOCUSING ON HIGHER GROWTH AREAS AND REGIONS – COMPLEMENTED BY M&A





Focus on Key Application Areas for Future Growth FROM DISCOVERY OF NOVEL MEDICATIONS ALL THE WAY TO BETTER DIAGNOSIS OF DISEASES

HEALTHCARE USE



APPLICATIONS

- Genomics
- Protein analysis
- Cell & tissue analysis

DETECTION & ASSAY TECHNOLOGIES

- Sequencing
- PCR
- Mass Spectrometry
- Immunoassays
- Imaging
- Advanced Staining

TECAN'S ENABLING COMPETENCIES

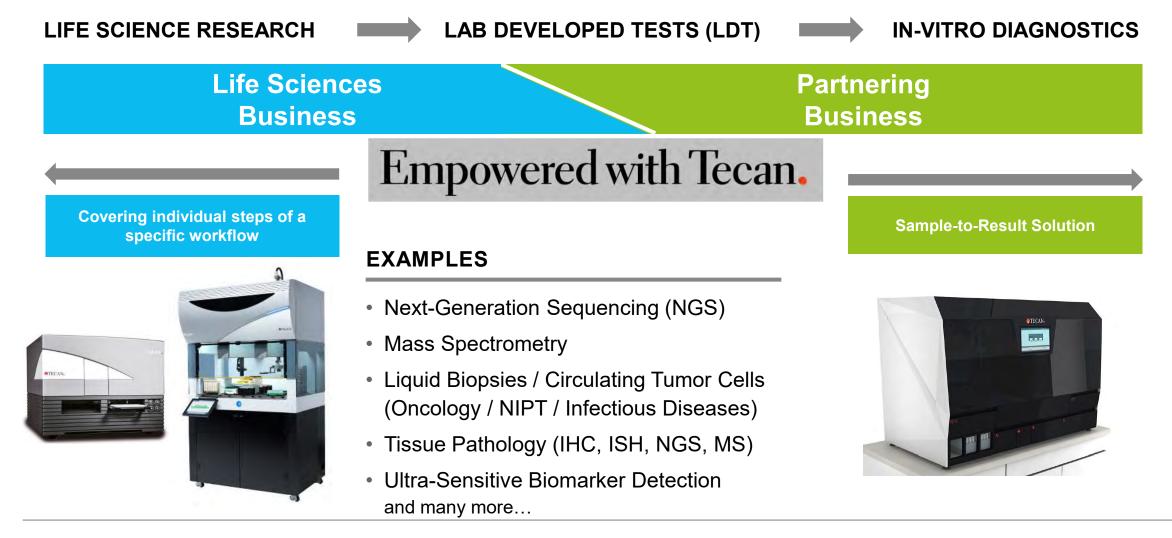
- Applications and Workflows
- Robotics and Automation
- Software and Informatics
- Detection and Imaging
- Precision Handling of Liquids
- Reagents and Consumables

All built on a robust foundation of:

- Product Development and Systems Integration Expertise
- Quality Management System
- Regulatory Expertise
- Efficient Operations



TECAN HAS A UNIQUE POSITION TO BRIDGE FROM RESEARCH TO DIAGNOSTICS SETTINGS



Focus on Key Application Area: Genomics FROM DISCOVERY OF NOVEL MEDICATIONS ALL THE WAY TO BETTER DIAGNOSIS OF DISEASES

HEALTHCARE USE



APPLICATIONS

- Genomics
- Protein analysis
- Cell & tissue analysis

DETECTION & ASSAY TECHNOLOGIES

- Sequencing
- PCR
- Mass Spectrometry
- Immunoassays
- Imaging
- Advanced Staining

TECAN'S ENABLING COMPETENCIES

- Applications and Workflows
- Robotics and Automation
- Software and Informatics
- Detection and Imaging
- Precision Handling of Liquids
- Reagents and Consumables

All built on a robust foundation of:

- Product Development and Systems Integration Expertise
- Quality Management System
- Regulatory Expertise
- Efficient Operations





Agenda Capital Markets Day 2019

Time	Duration	Торіс	Presenter
8:45 – 10:00		Empowering the Century of Biology	Achim von Leoprechting, CEO
		Application focus: Genomics	
		Tecan's offering and strategy	Klaus Lun, EVP, Head Life Sciences Business
		Customer presentation: Ambry Genetics	Joy Crandall, Director of Assay Automation
10:00 – 10:15	15 min	Coffee Break	
10:15 – 11:15		Application focus: Cell & Tissue Analysis	
		Tecan's offering and strategy	Klaus Lun, EVP, Head Life Sciences Business
		Application focus: Protein Analysis	
		Tecan's offering and strategy	Klaus Lun, EVP, Head Life Sciences Business
		Customer presentation: The Binding Site	Stephen Harding, CSO
11:15 – 11:30	15 min	Coffee Break	
		Tecan's Enabling Competencies	
		Innovation for the Century of Biology	Wael Yared, designated CTO and Head R&D
11:30 - 13:00		Operational Efficiency as the foundation	Ulrich Kanter, Head Operations & IT (presented by Achim von Leoprechting, CEO)
		Focus topic: Partnering Business	Achim von Leoprechting, CEO
		Summary & Close	Achim von Leoprechting, CEO
		Q&A	All



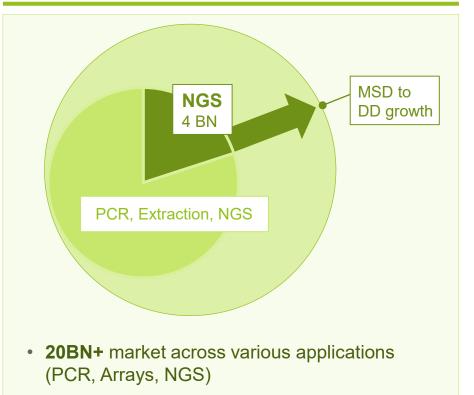
Genomic offering and strategy

DR. KLAUS LUN EVP HEAD OF LIFE SCIENCES BUSINESS



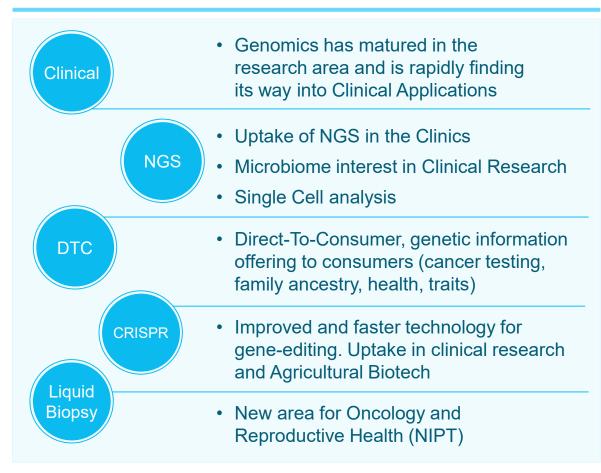
.........

Genomics is a rapidly growing market



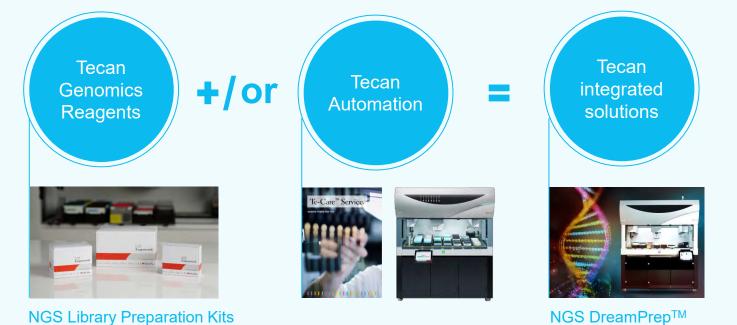
• **MSD to DD** growth rates depending on applications – Higher in CDx, NGS

CORE TRENDS



Genomic strategy at Tecan

Within Genomics, Tecan will provide sample prep solutions for NGS, PCR and Extraction for all major customer types



NGS DreamPrep[™]

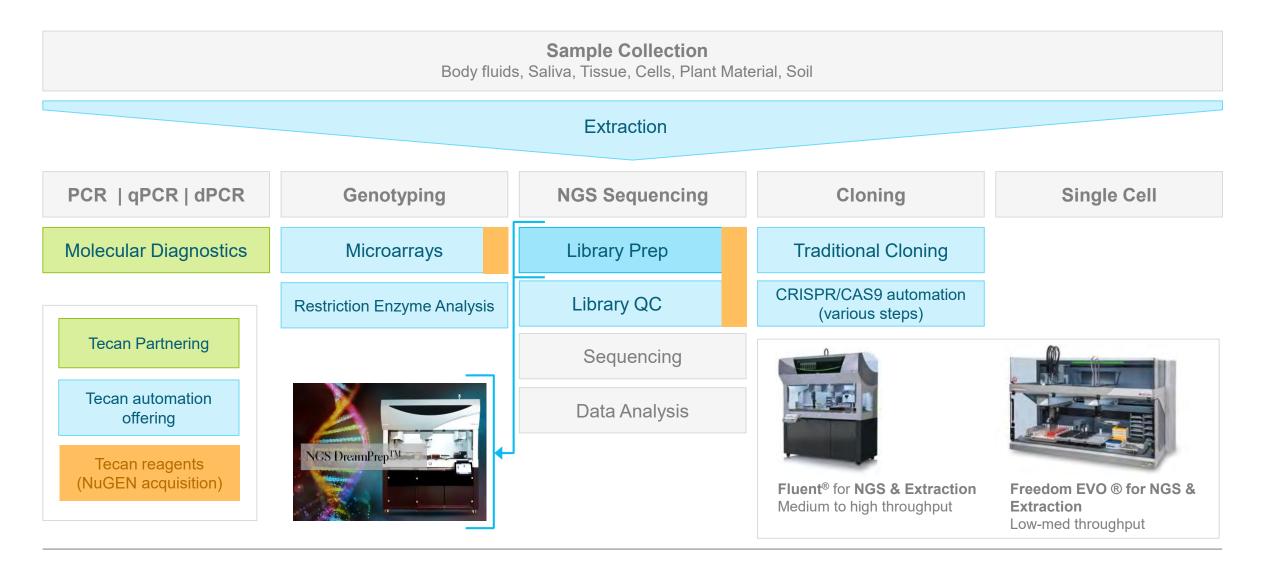
CORE PILLARS

- Expand NGS reagent portfolio & footprint
- Develop new workstations for genomic sample preparation
- Launch new solutions
- Continue to sell reagents to 3rd party platforms
- Enable **Partnering** projects



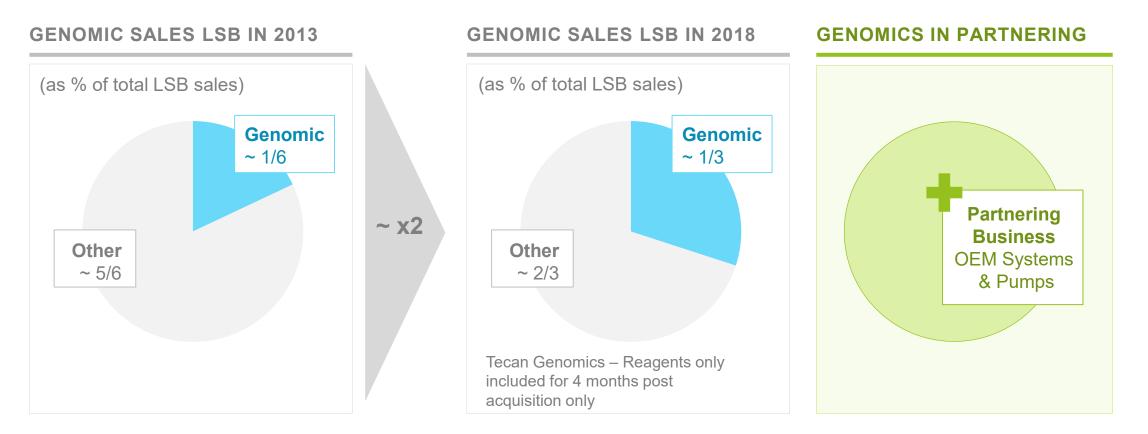


Genomic workflows and what it covers today





Genomic is a significant growth contributor for Tecan

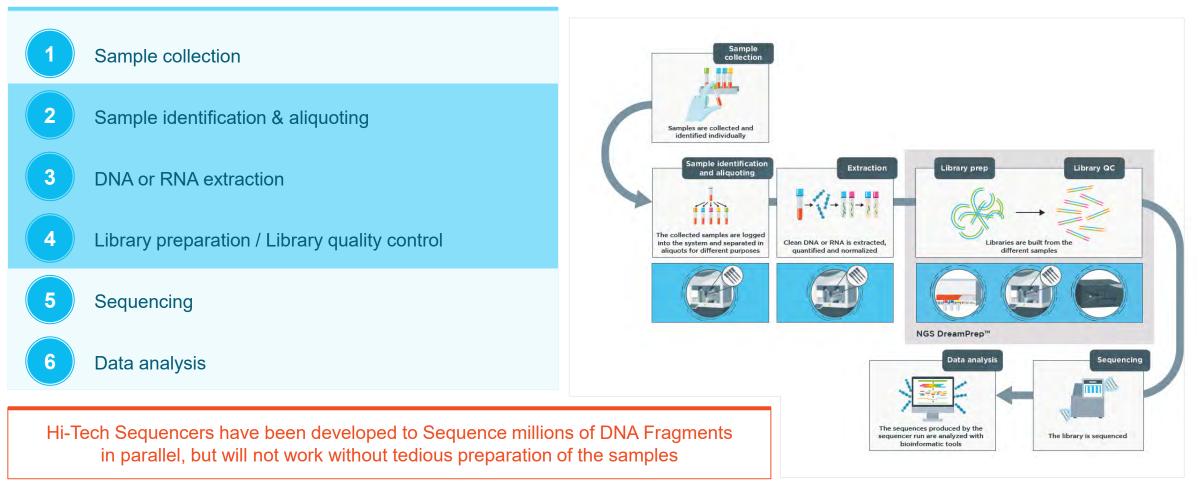






Sample Library Preparation key to successful sequencing

NGS LIBRARY PREPARATION IN STEPS





Tecan Genomics NGS library workflows and microarrays

PERFORMANCE AND SIMPLE WORKFLOWS FOR A BROAD RANGE OF SAMPLE TYPES

NEXT GEN SEQUENCING

- Target Enrichment DNA-Seq
- RNA-Seq Methyl-Seq

MICROARRAYS AND QPCR

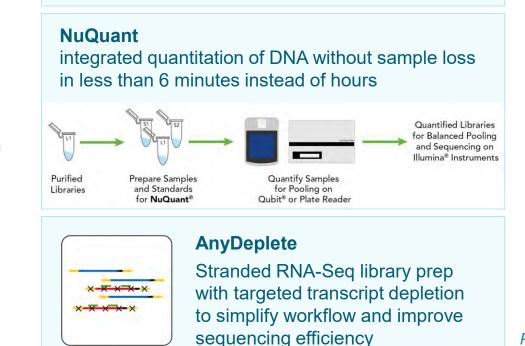
- cDNA amplification from total RNA
- FFPE cDNA preparation
- High throughput systems
- Affymetrix and Illumina compatible

AUTOMATION

 Streamline sample preparation technologies for Next Gen Sequencing and other genomics assays through NGS DreamPrep and automated liquid handling

TECHNOLOGY USP (SELECTION)

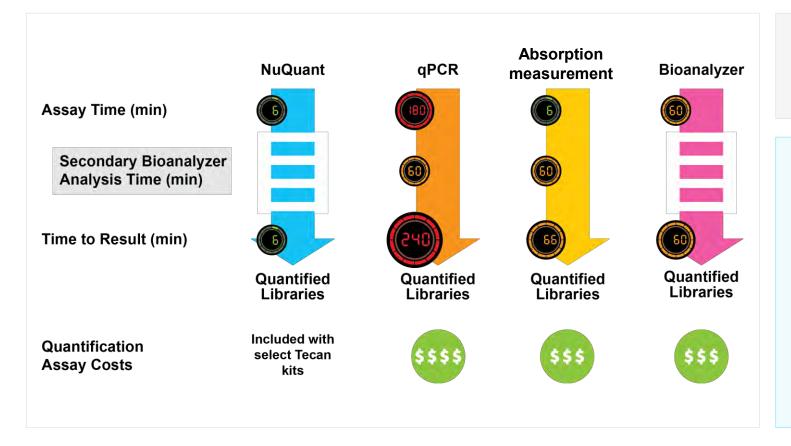
DNA-seq – Celero library preparation in less than 4 hours



Protected by 30 Patent Families



NuQuant[®] reduces time and total cost with library preparation & quantification



NuQuant accurately measure molar library concentration without the need for Bioanalyzer and time consuming gPCR.

- Doubling throughput of an NGS laboratory – two full library preparations in one day instead of normally one
- Avoidance of an expensive QC steps that is adding up to to 30% of library preparation costs (NuQuant is inside the kit)
- Less instruments to manage in a laboratory

Accurately measure molar library concentration without the need for Bioanalyzer and time consuming qPCR

PTECAN

Reference: NuQuant®: A simple and accurate method to quantify molar concentrations of NGS libraries for Illumina sequencers

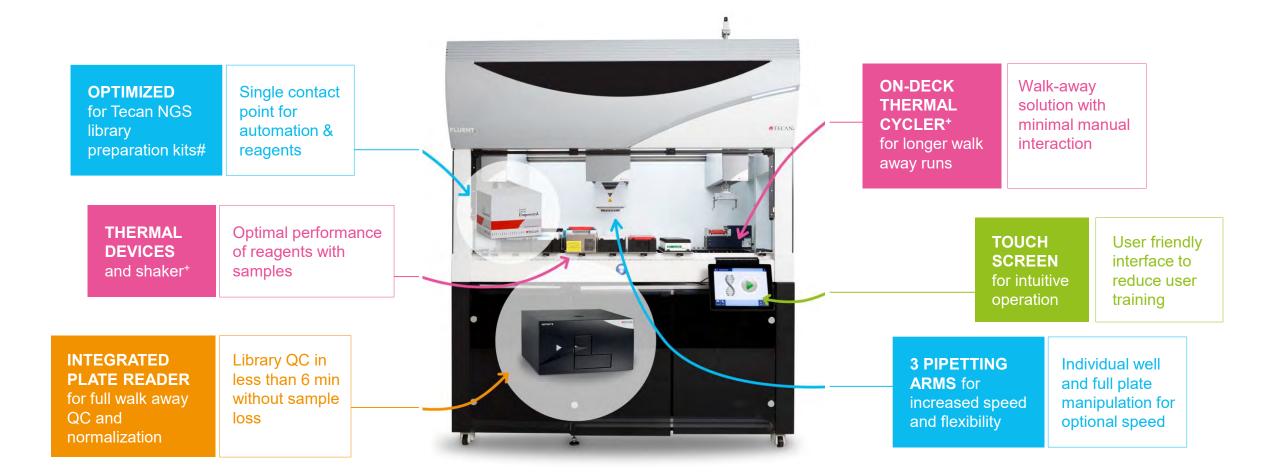
NGS DreamPrepTM – Complete automation for NGS library prep and quantification



Unprecedented speed and accuracy for automated library preparation and quantification

- **Two library preps in a day** DNA-seq libraries, normalized and ready to sequence, in less than 4 hours
- Library QC in less than 6 min with no sample loss Measure 96 samples simultaneously with the Infinite® F Nano+ plate reader
- Full walk-away solution Hands-off for DNA & minimal manual interaction for RNA-seq
- User friendly interface Intuitive touchscreen operation, designed to reduce operator training
- **Single contact point for everything** Automation, reagents, consumables, application support, troubleshooting, service

NGS DreamPrep[™] – A fully optimized solution for walkaway NGS library prep & QC



Genomic workflows are key drivers of consumables growth



Genomics market segment is an attractive recurring revenue stream

with assured purity levels for different genomic assays

Tecan offers disposable tips

TYPICAL TIPS USAGE IN GENOMIC WORKFLOWS



Liquid handling tips 10-30 tips / sample



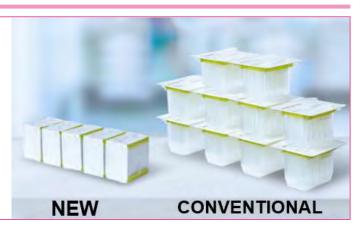
MultiChannel Arm™ 96 tips 8-12 tips / sample

NEW TECAN CLEAR TIPS

Launched in a new packaging reducing plastic and volume

Benefits

- Space saving for laboratory storage
- 45% less packaging waste



Applications

segments

Sterlle

examples/customer

Tecan Standard quality Human DNA free PCR Inhibitor RNase/DNase free Pyrogen/Endotoxin free

Tecan Pure

Genomics research

Forensics

Molecular diagnostics



Genomics in GxP and LDT markets with Fluent[®] Gx, Tecan's Flagship Liquid Handler

SIMPLICITY	Simple Touch Interface Collaborative Design	
PRODUCTIVIT	Blazing parallel processing Big capacity, small footprint	
		• •
CONFIDENCE	Modern platform design Global Service organization	• •
		<i>v</i>





Fluent Gx **Assurance Software** (User Mgmt., Method approval, sample tracking, Electronics records, Audit tool)



Connected to generate insights

- Registered with FDA as Class 1 Medical Device
- Certified ISO 13485 (Medical Devices Quality Mngmt)
- 21 CFR 820 Quality System (US FDA)
- 21CFR Part 11
- Additional EN Norms

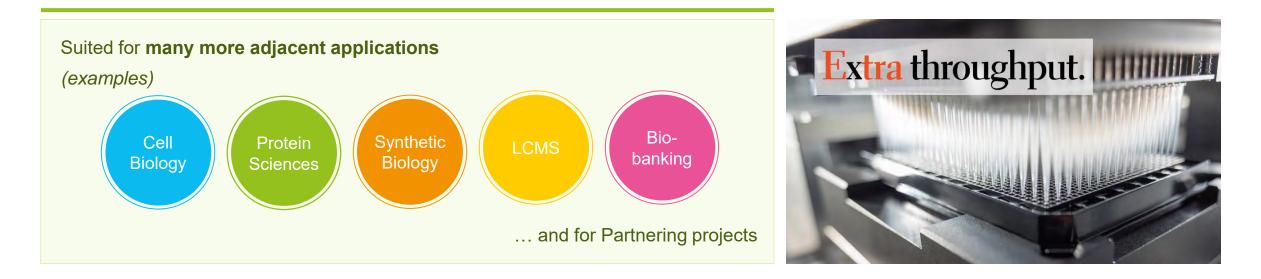
Tools for GMP, GLP, QC labs, and clinical diagnostic facilities:

PTECAN

- Permissions
- Method Approval
- Electronic Signatures
- Sample Traceability
- Audit Trail & Audit Tools

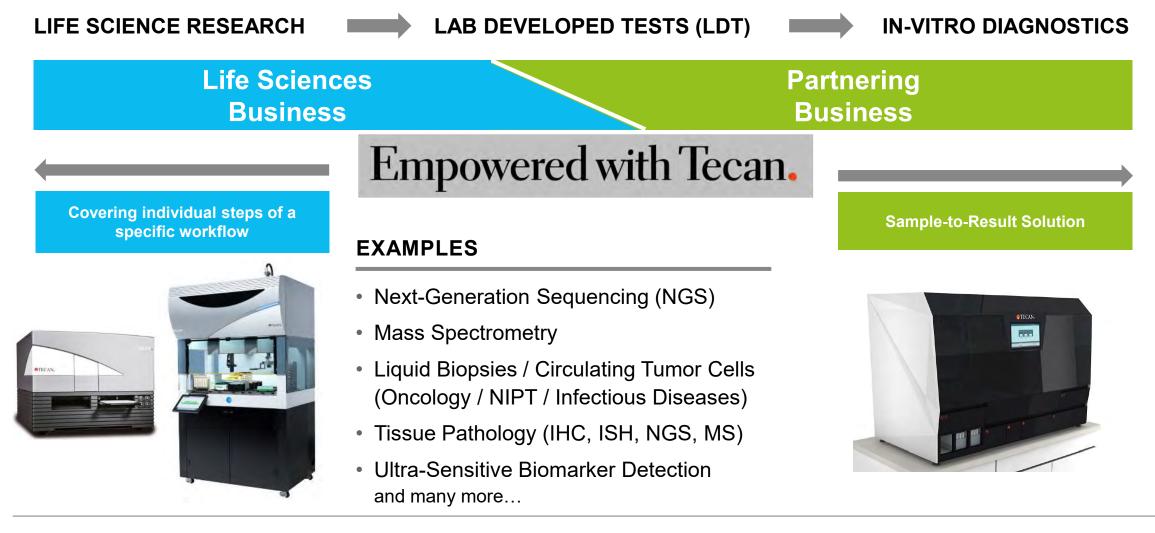


Tecan Fluent[®] applications beyond genomics





TECAN HAS A UNIQUE POSITION TO BRIDGE FROM RESEARCH TO DIAGNOSTICS SETTINGS



TECAN PARTNERING SUPPLYING PROVEN SOLUTIONS FOR MOLECULAR DIAGNOSTIC LABS



Tecan application expertise and platforms in Genomics



- Covering all genomics needs, including standardized workstations with validated applications and dedicated user interfaces
- Automated DNA/RNA extraction, clean-up and quantification, PCR set-up and more

Example 1: m2000sp and m24sp for Abbott Molecular



- Highly flexible and proven solution featuring a broad menu of IVD assays
- Allowing consolidation of PCR testing on a single platform
- Abbott m24sp for laboratories with mid-throughput requirements

TECAN PARTNERING SUPPLYING PROVEN SOLUTIONS FOR MOLECULAR DIAGNOSTIC LABS



Tecan application expertise and platforms in Genomics



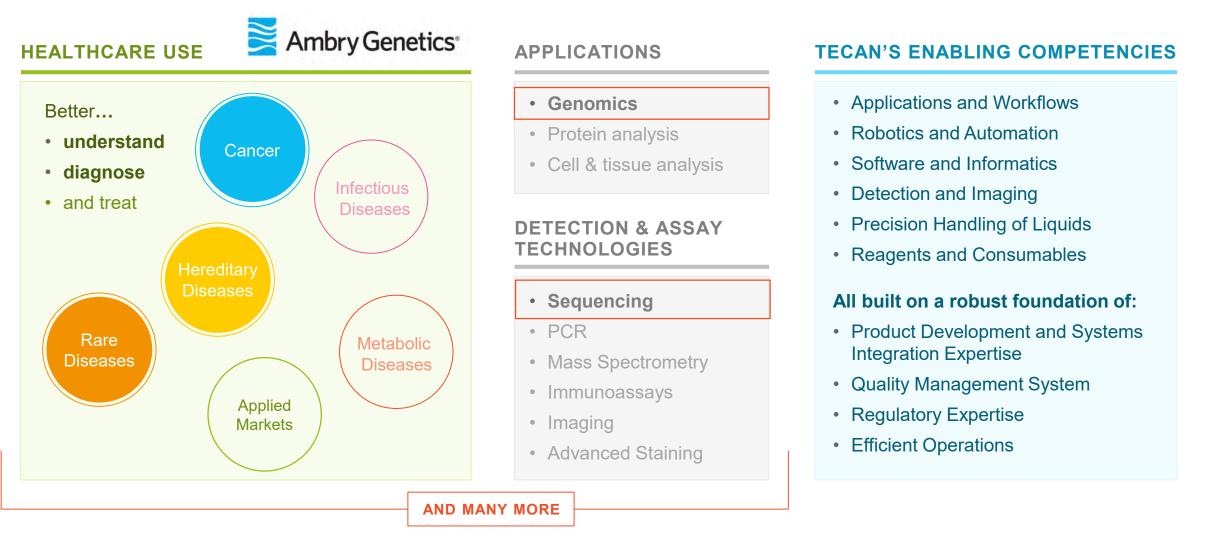
- Covering all genomics needs, including standardized workstations with validated applications and dedicated user interfaces
- Automated DNA/RNA extraction, clean-up and quantification, PCR set-up and more

Example 2: Natch S for Sansure Biotech



- Sansure Biotech is a Chinese provider of MDx solutions
- Fully automated system for the extraction and purification of nucleic acids (DNA/RNA)
- Handling of multiple assay formats through easy-to-use interface in local language

FOCUS ON Key Application Area: Genomics FROM DISCOVERY OF NOVEL MEDICATIONS ALL THE WAY TO BETTER DIAGNOSIS OF DISEASES





Leveraging Tecan Automation to Revolutionize Ambry

Joy Crandall, Director of Assay Automation

June 6, 2019



Ambry Genetics



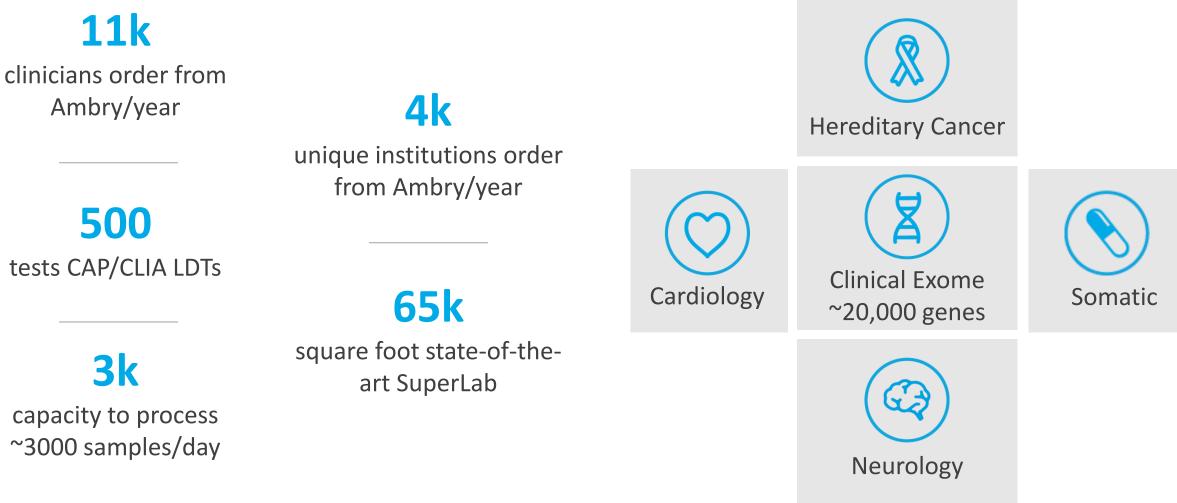








Breadth of Ambry Genetics Services



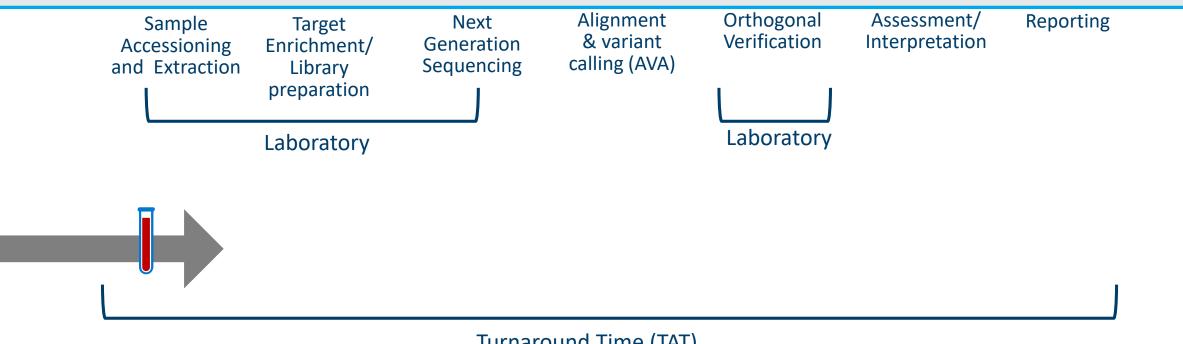


Leaders in Accurate Variant Assessment

- Ambry maintains one of the most sophisticated bioinformatics platforms in the industry
- Ambry's Variant Analyzer (AVA) is a sophisticated proprietary platform to lower VUS rates
- Core team of structural biologists and medical experts
- RNA functional assays



Ambry Genetics Testing Workflow



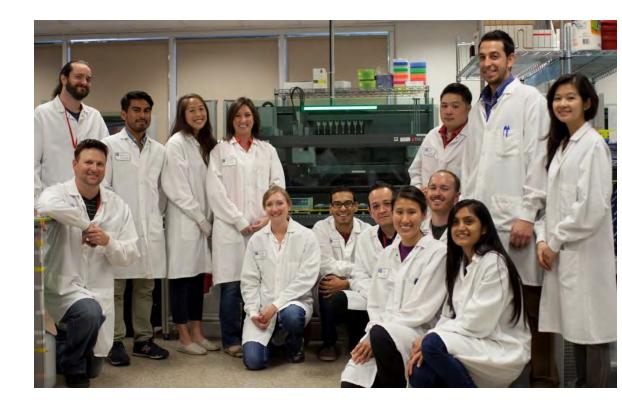
Turnaround Time (TAT)

• Laboratory Goal: Increase sample throughput while maintaining or decreasing TAT



2012-Ambry's Introduction to Tecan Automation

- 2012-First Tecan Freedom EVOs
 - Automated Normalization
 - Previously required 2 people to double-check manually
 - Amounted to 9 hours of FTE time savings a day



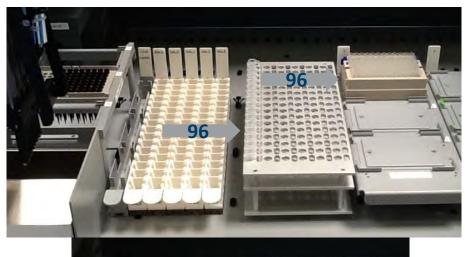


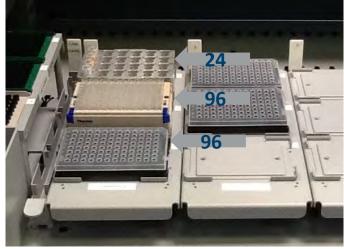
2012-2015 Focus on Increased Throughput





- Automated Traceability
- Maximize Per Run Processing and Speed
 - Tubes to 96 Well Plates/Racks
 - 3X increased capacity
 - 12X faster processing
 - Reduced Errors
- Results (per Week)
 - 25X-100X increase in samples prepared per person





2016 Ambry's SuperLab





• 2016-SuperLab Grand Opening

- Enable an increase company's genetic testing volume (9X)
- Decrease turnaround times (TAT)
- Focus on accuracy and maintaining sample integrity through traceability
- Expanding Ambry's reach to Pharmaceutical Companies

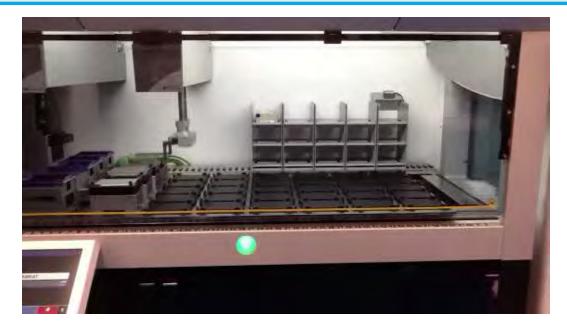


SuperLab's Sample Tracking



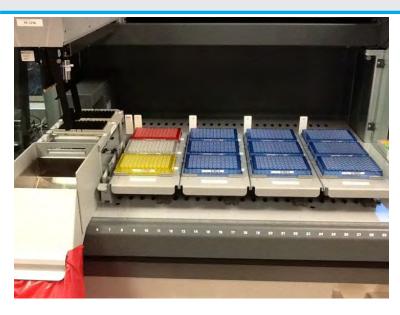
Ambry Genetics[®]

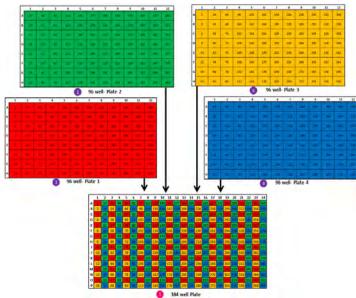
- Real-Time Sample Tracking and Traceability
 - All sample tubes and plates have unique barcodes
- "Barcode-based" pulling or pipetting logic
 - Added sample integrity measures



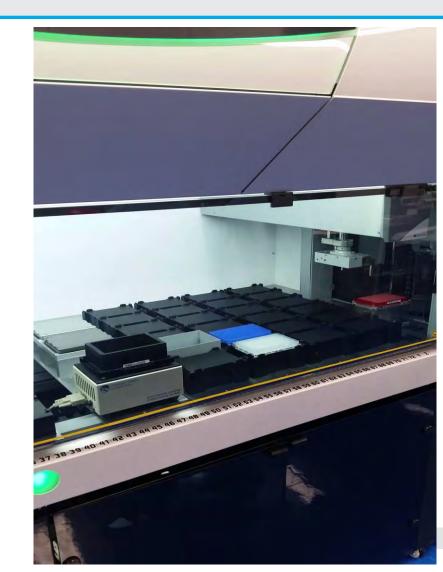
- Audit Trail
 - Paper forms are considered "high-risk" by regulators
 - Enables faster troubleshooting

SuperLab's Sample Throughput





- 96 Well Plates to 384 Well Plates
 - 4X increased Capacity
 - Decreased Peripheral Required
 - Decreased Reagent and Consumable Costs
 - Assay Miniaturization
 - Increased Instrument Walk-Away Time



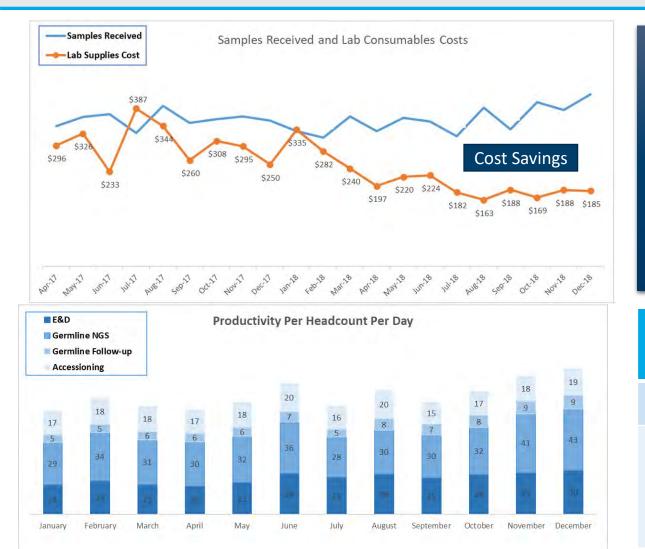
Tecan's Introspect Software

- 2016 Ambry was an Alpha User
- Potential for Proactive versus Reactive approach
- Easy visualization of instrument utilization
 - Efficient scheduling of processing
 - Assist in building a business case for additional instrument purchasing
- 2019 Over 50 Tecans Active





2018 Focus on Cost Savings and Productivity

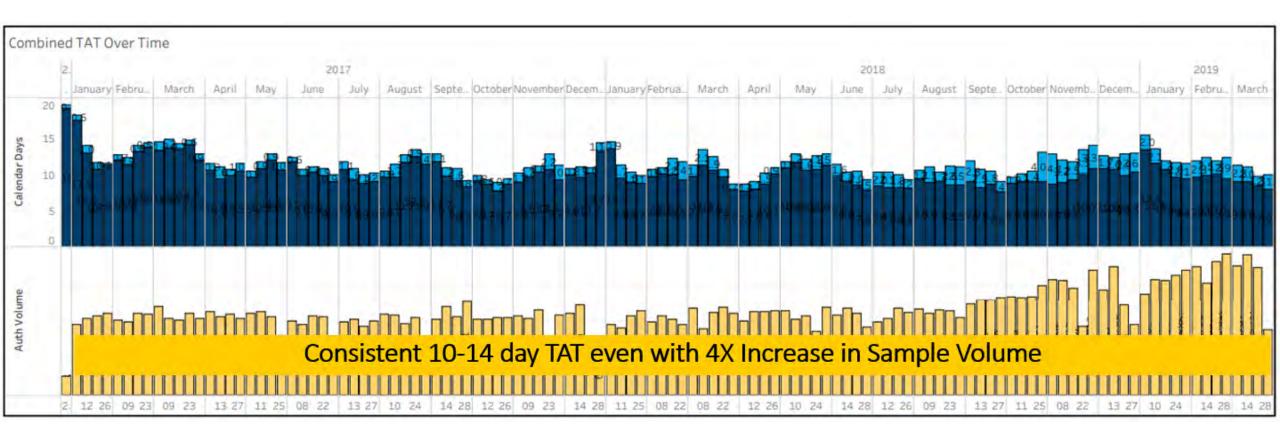


Cost Savings Initiatives

- ✓ Assay miniaturization
- Automation of leaner processes to reduce lab supply costs, reduce errors & labor, enhance lab tracking
- Eliminating legacy redundancy waste
- ✓ Reducing consumable waste and costs

Metric	FY17	FY18	FY18 Growth
Headcount	113	78	-31%
 Productivity/HC/Day Assay Automation LIMS Data Integration 	3.34	5.46	63%

Impact of Tecan Automation on TAT with Increasing Sample Volume





Acknowledgements

- Tecan Support
 - David Dela Cruz, Robert Taylor, Vincent Ahlheit, Edmund Kraft, and Expertline
- Ambry Genetics
 - Assay Automation Team
 - Jacqueline Caesar-Bennett, Sinead Charpentier, Nina Do, Julia Burdette, Keith Mulholland, Leo Lai, Sara Valencia, Catherine Pham
 - R&D
 - Brigette Tippin Davis, Ruth Baxter, Rashmi Mody, Susanne Fox, Christian Chua, Jennifer Masuzumi, Lernni Juco, Michele Fennessy
 - Clinical Lab Staff
 - Sharon Mexal, Manny Jaquez, Aaron Campbell, Alina Sisombath, Brady Barrows, Brian Ramirez Enriquez, Ishita Vyas, Jennifer J. De La Cal, Tamara McBride, Micah Ranney, Pierre Samson, Raymonde Saintil, Richard Srey, Rocio Martinez, ALL END USERS







Questions



Coffee break.



IP CIP CIP

Agenda Capital Markets Day 2019

36

Time	Duration	Торіс	Presenter
		Empowering the Century of Biology	Achim von Leoprechting, CEO
8:45 – 10:00	Application focus: Genomics		
		Tecan's offering and strategy	Klaus Lun, EVP, Head Life Sciences Business
		Customer presentation: Ambry Genetics	Joy Crandall, Director of Assay Automation
10:00 - 10:15	15 min	Coffee Break	
10:15 – 11:15		Application focus: Cell & Tissue Analysis	
		Tecan's offering and strategy	Klaus Lun, EVP, Head Life Sciences Business
	L	Application focus: Protein Analysis	
		Tecan's offering and strategy	Klaus Lun, EVP, Head Life Sciences Business
		Customer presentation: The Binding Site	Stephen Harding, CSO
11:15 – 11:30	15 min	Coffee Break	
11:30 – 13:00		Tecan's Enabling Competencies	
		Innovation for the Century of Biology	Wael Yared, designated CTO and Head R&D
		Operational Efficiency as the foundation	Ulrich Kanter, Head Operations & IT (presented by Achim von Leoprechting, CEO)
		Focus topic: Partnering Business	Achim von Leoprechting, CEO
		Summary & Close	Achim von Leoprechting, CEO
		Q&A	All



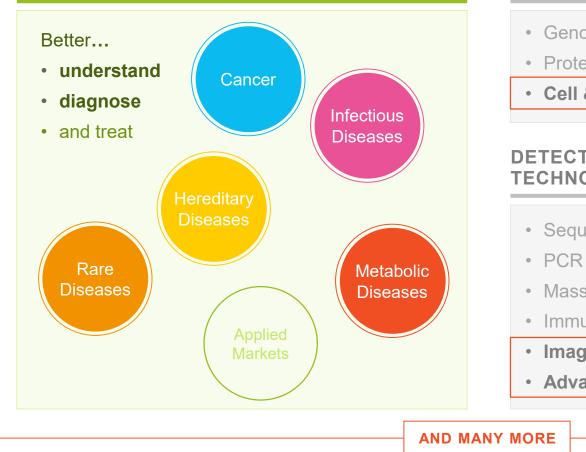
Cell & Tissue Analysis

DR. KLAUS LUN EVP HEAD OF LIFE SCIENCES BUSINESS

 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •</t

Focus on Key Application Area: Cell & Tissue Analysis FROM DISCOVERY OF NOVEL MEDICATIONS ALL THE WAY TO BETTER DIAGNOSIS OF DISEASES

HEALTHCARE USE



APPLICATIONS

- Genomics
- Protein analysis
- Cell & tissue analysis

DETECTION & ASSAY TECHNOLOGIES

- Sequencing
- Mass Spectrometry
- Immunoassays
- Imaging
- Advanced Staining

TECAN'S ENABLING COMPETENCIES

- Applications and Workflows
- Robotics and Automation
- Software and Informatics
- Detection and Imaging
- Precision Handling of Liquids
- Reagents and Consumables

All built on a robust foundation of:

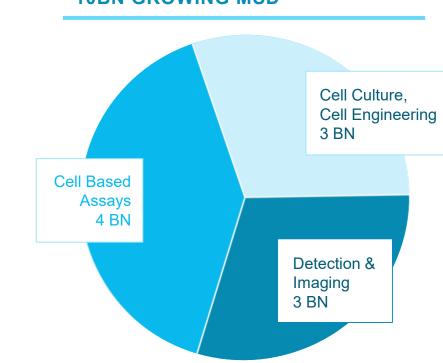
- Product Development and Systems Integration Expertise
- Quality Management System
- Regulatory Expertise
- Efficient Operations



Cell Biology & Imaging Market growth driven by biotherapeutics, biosimilars and personalized medicine growth

MARKET DYNAMICS DRIVING FOR MORE AUTOMATION:

- Growing importance of cell based disease models in drug discovery screening, fueled by rising incidence of cancers, age-related diseases an ongoing need for improved biological relevance
- Strong growth of cell engineering/ bioprocessing driven by personalized medicine, biotherapeutics and biosimilars



CELL BIOLOGY & IMAGING MARKET: ~10BN GROWING MSD



Tecan's offering in Cell Biology and with Spark[®] Cyto expansion in new imaging segment

CELL CULTURE, CELL ENGINEERING

Liquid Handling

- Fluent[®]
- Freedom EVO®



Labwerx

 Customized automation for complex workflows

CELL BASED ASSAYS



 Customized automation for complex workflows

DETECTION & IMAGING

Multimode readers Spark[®]

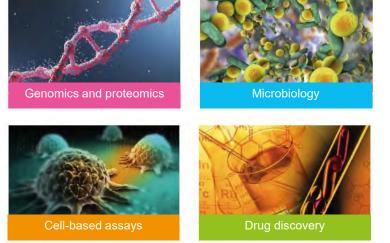
Mutimode readers with imaging capacity NEW! Spark[®] Cyto

40



The Spark[®] Multimode Microplate Reader SPARK – YOUR RESEARCH PARTNER.





- Designed to offer greater flexibility and increased productivity.
- Four pre-set configurations for specific applications and also available as a fully configurable platform.
- Upgradeable to give the freedom to add modules at any time in the future.



UNIQUE SPARK FEATURES

Humidity cassette and lid lifter reduces evaporation

- Fusion Optics offers filters to provide sensitivity and a monochromator for wavelength flexibility
- Temperature control with patented Te-Cool for enhanced assay stability
- NanoQuant Plate[™] for straightforward measurement of 16 x 2 µl samples simultaneously without calibration.



New Spark[®] Cyto - the first live cell plate reader with real time image cytometry

"My biggest challenge is how to measure multiple parameters from cells in-vitro at the same time under the same conditions.

At the moment I have to use multiple instruments or very costly dedicated devices, requiring specialists knowledge.

I would like to be able to get biological, biochemical and population data for each well using one instrument to feel reassured that I am measuring parameters under the same conditions"

(Professor of Molecular Biology)

Spark Cyto provides scientists with the most data possible from each experiment, at the same time under the same conditions so that you never miss a critical biological event.



Spark[®] Cyto is the only imaging multi-mode reader that can measure cells in <u>a live environment</u> over <u>long period of time</u> that provides <u>results in real time</u>

OUR UNIQUE FEATURES

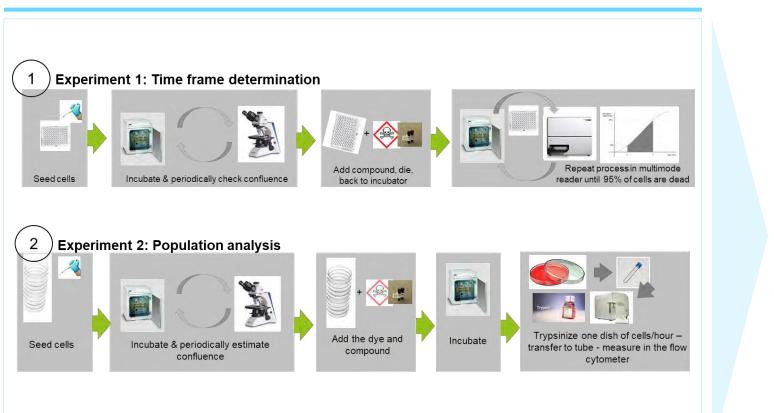
- More cells analyzed, faster One image of the whole-well in a 96 and 384-well plate (patent pending).
- **Healthy, living cells in a controlled environment** Full environmental control with CO₂, O₂, temperature and humidity cassette (patented).
- More parameters analyzed Combine standard read modes with cell imaging.
- More immediate feedback about the assay The instrument analyses cells in real time i.e. at the same time as it's acquiring images or data.,
- Never miss a critical event Automatic executiona of kinetic experiments, e.g. add a compound, based on data received while imaging to understand the dynamic behaviour of cells.



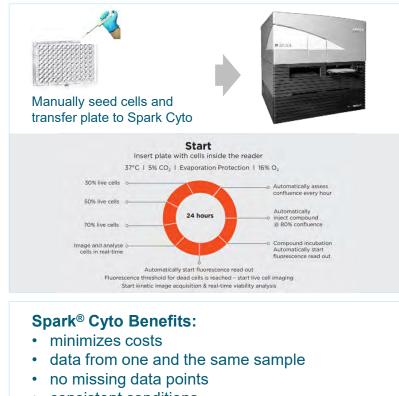


With Spark[®] Cyto cell viability study will be substantially simplified: from complex workflow to one step experiment

CURRENT PROCESS IN A LAB



THE FUTURE PROCESS



- consistent conditions
- · shorter time to result

TECAN LABWERX.

Beyond the ordinary.

Complete Workflow Automation







Beyond the ordinary.

Tecan LABWERX delivers a customized, comprehensive and productive solution.

•</t

Customer focus

IDEATE. INVESTIGATE. INVENT. INTEGRATE





Labwerx automates Advanced Bioprocessing workflow at Juelich Research Center in Germany

CHALLENGE

- Multiple microbial strain phenotyping and bioprocess development. High volumes.
- Multiple experiments simultaneously up to 48x, 24/7.
- Harvest cells at the night time.



"...With this system we can perform experiments in a completely different way. It has given us the opportunity to develop and test processes that we simply couldn't do before."

(Dr. Ing. Holger Morschett, Head of MiBioLab)



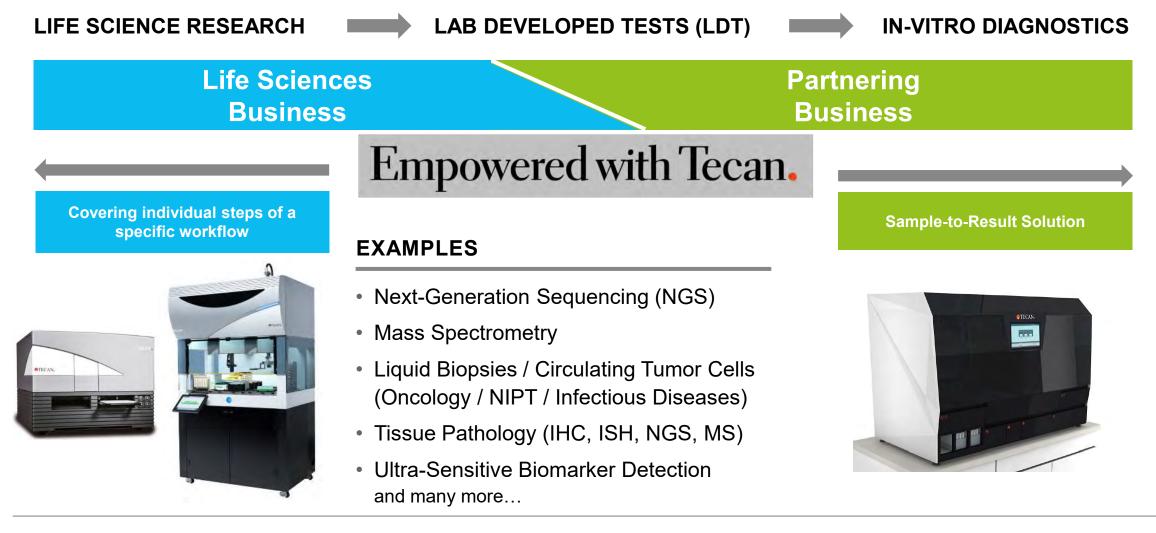
TECAN JOURNAL 2/2018 To learn more about MiBioLab and see the automated platform in action, go to <u>www.fz-juelich.de/mibiolab</u>



OTECAN

Transition from Research to Diagnostics

TECAN HAS A UNIQUE POSITION TO BRIDGE FROM RESEARCH TO DIAGNOSTICS SETTINGS



Transition from Life Sciences Business to Tecan Partnering

FROM USING TECAN PLATFORMS IN OWN LABS TO PROVIDING FROZEN SOLUTIONS UNDER OWN BRAND

Life Sciences Business

Tecan application expertise and platforms

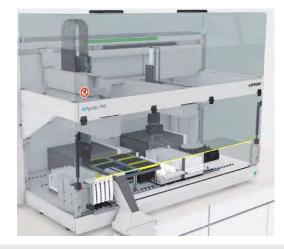


- Freedom[®] EVO, one of the most popular and reliable systems
- Highly configurable depending on application needs
- Lonza was using the Freedom[®] EVO in own testing labs

PyroTec[™] Pro Robotic Solution^{*} for Lonza

Partnering

Business



- Fully automated, plate-based robotic solution for endotoxin detection; frozen solution
- Bacterial endotoxin testing is a fundamental safety requirement in the pharmaceutical and biomedical industries

Source: https://bioscience.lonza.com/lonza_bs/GB/en/endotoxin-automation





Transition from Research to Diagnostics

TECAN PARTNERING CUSTOMERS BENEFITTING FROM TECAN'S EXPERTISE IN FLOW CYTOMETRY



Tecan expertise and technologies for flow cytometry



- Deep application expertise in automation solutions in cell biology, including flow cytometric analysis
- Fully automated sample preparation steps for flow cytometry – from cell dilution to reagent addition with mixing and shaking

PS-10 Sample Prep System* for Sysmex Corporation



- Highly automated, flexible sample prep system for LDTs and routine flow cytometry applications
- For real-time, absolute counting of cells, cellular subsets and other particles on a volumetric basis

*not yet available on the market



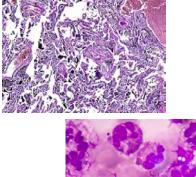
Transition from Research to Diagnostics

TECAN HAS A UNIQUE POSITION TO BRIDGE FROM RESEARCH TO DIAGNOSTICS SETTINGS



Tecan technologies for histology and cytology





- Tecan has a long history in the fields of histology and cytology, with strong application know-how in the IHC/ISH segment
- Leveraging application expertise for tailored OEM development based on proven GenePaint[™] technology

Dako Omnis for Agilent Technologies



- Advanced staining platform for tissue-based cancer diagnostics
- Set new standards with regard to flexibility, capacity, efficiency and traceability
- IHC and ISH procedures can be automated simultaneously

 $\mathbf{52} \quad \mathbf{1} \quad$

Agenda Capital Markets Day 2019

53

Time	Duration	Торіс	Presenter
8:45 – 10:00		Empowering the Century of Biology	Achim von Leoprechting, CEO
	Application focus: Genomics		
		Tecan's offering and strategy	Klaus Lun, EVP, Head Life Sciences Business
		Customer presentation: Ambry Genetics	Joy Crandall, Director of Assay Automation
10:00 - 10:15	15 min	Coffee Break	
10:15 – 11:15	Application focus: Cell & Tissue Analysis		
	Tecan's offering and strategy	Klaus Lun, EVP, Head Life Sciences Business	
	Application focus: Protein Analysis		
	Tecan's offering and strategy	Klaus Lun, EVP, Head Life Sciences Business	
		Customer presentation: The Binding Site	Stephen Harding, CSO
11:15 – 11:30	15 min	Coffee Break	
11:30 – 13:00		Tecan's Enabling Competencies	
		Innovation for the Century of Biology	Wael Yared, designated CTO and Head R&D
		Operational Efficiency as the foundation	Ulrich Kanter, Head Operations & IT (presented by Achim von Leoprechting, CEO)
		Focus topic: Partnering Business	Achim von Leoprechting, CEO
		Summary & Close	Achim von Leoprechting, CEO
		Q&A	All



Protein Analysis

DR. KLAUS LUN EVP HEAD OF LIFE SCIENCES BUSINESS

•</t

Focus on Key Application Area: Protein Analysis FROM DISCOVERY OF NOVEL MEDICATIONS ALL THE WAY TO BETTER DIAGNOSIS OF DISEASES

HEALTHCARE USE



APPLICATIONS

Genomics

- Protein analysis
- Cell & tissue analysis

DETECTION & ASSAY TECHNOLOGIES

- Sequencing
- Mass Spectrometry
- Immunoassays
- Imaging
- Advanced Staining

TECAN'S ENABLING COMPETENCIES

- Applications and Workflows
- Robotics and Automation
- Software and Informatics
- Detection and Imaging
- Precision Handling of Liquids
- Reagents and Consumables

All built on a robust foundation of:

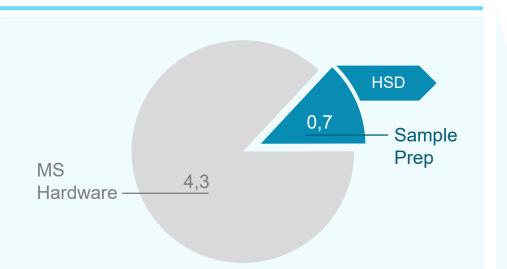
- Product Development and Systems Integration Expertise
- Quality Management System
- Regulatory Expertise
- Efficient Operations





Mass Spectrometry is a ~5 BN USD market growing HSD

MASS SPECTROMETRY MARKET



- Mass Spectrometry market is a ~5 bn USD with 7% CAGR
- Sample preparation, includes consumables & automation, is about 0.7 BN USD

TRENDS

- Pharma is developing more Biologics (protein, peptides, biosimilars) and antibody drug conjugates that require advanced analytical tools to analyze, especially mass spectrometry
- Biologics in pipeline also lead to growing demand for analytics and QC in biopharma
- Advanced MS technology allows analysis of lipids and metabolites
- Wider adoption of MS in clinical diagnostics (e.g. Newborn screening, therapeutic drug monitoring)

 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •
 •</t

Mass Spectrometry is a core technology & analysis method among several others in the growing field of Proteomics

SAMPLE PREPARATION FOR MASS SPECTROMETRY



Tailored mass spectrometry sample preparation solutions from **small molecule** and **peptide clean-up to spotting of MALDI targets**

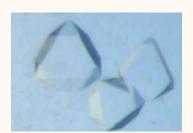
PROTEOMIC APPLICATIONS



Protein purification and bioprocessing

Miniaturized and parallelized high throughput **protein purification**

Biosimilars and biologics process development



Crystallography

for hanging drop,

microbatch protein

sitting drop and

crystallography

experiments

Automation solutions



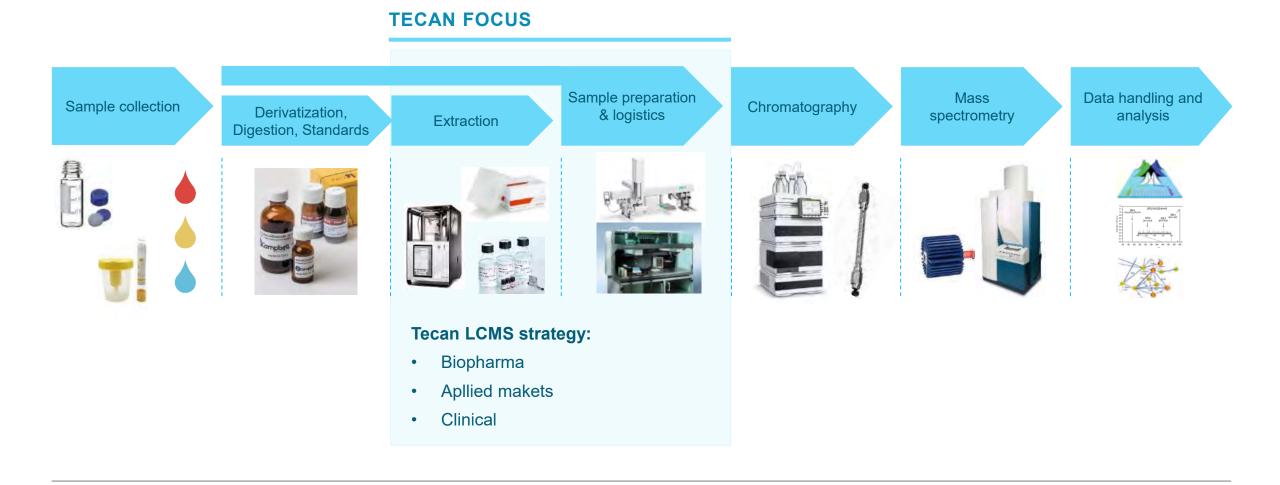
Protein detection and analysis

Solutions for protein analysis including multimode readers and label-free analysis



Our focus on MS sample preparation

WITHIN LCMS, WE WILL CONTINUE TO EXPAND IN EXTRACTION AND SAMPLE PREPARATION SEGMENTS WITH APPLICATION SPECIFIC OFFERING



TECAN

58

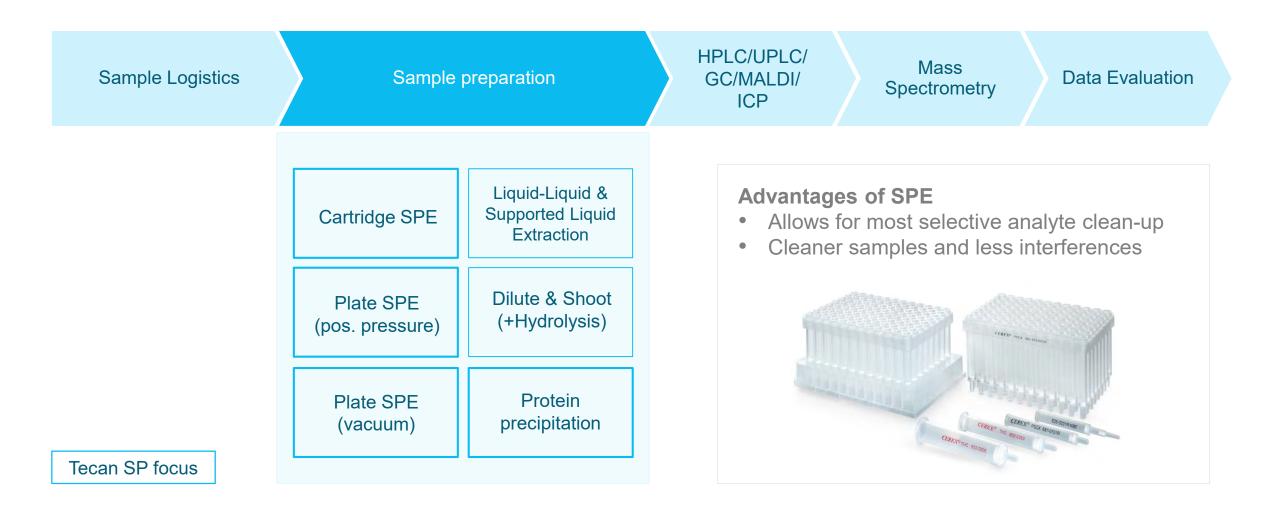
Tecan's offering for MS sample preparation today

OEM offering





Sample prep for MS uses various different workflows



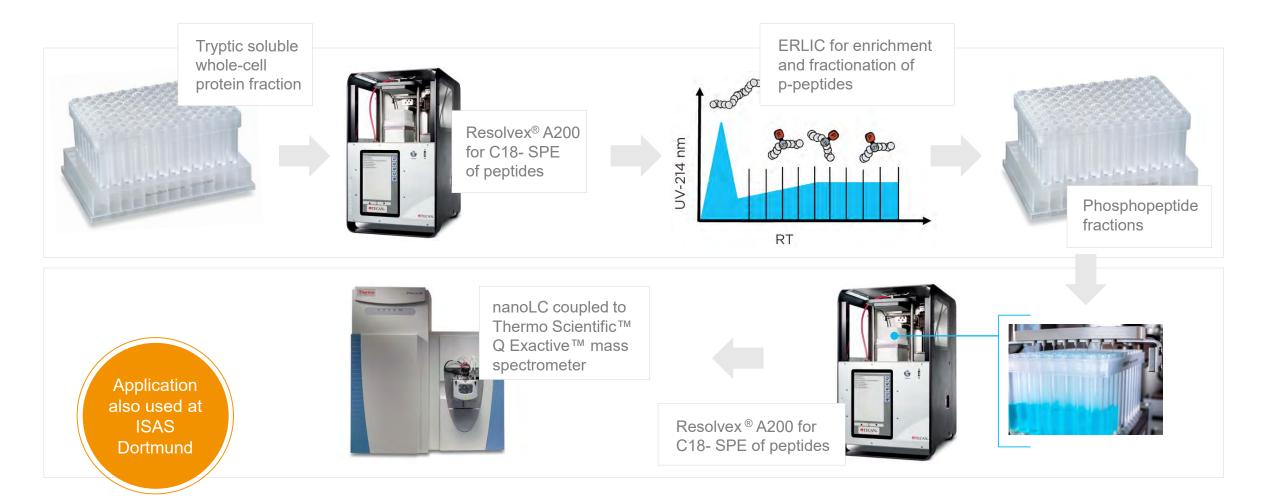
DINTECAN

Tecan SP product portfolio covers the full sample preparation workflow for mass spectrometry



of TECAN.

For the phosphoproteomics workflow, Resolvex[®] A200 reduces the lab-time from 1.5 days down to 3 - 4 hours



TECAN.

Tecan SP achievements

Through SPEware acquisition in 2016, Tecan has become a one-stop shop for mass spectrometry sample preparation

- Sales grew faster than the market
- Expanded to EU and Asia based on existing sales channels
- Launched Resolvex[®] A200, complementing automation offering
- Adding recurring sales to Tecan's consumables
 portfolio
- Achieved ISO 13485 certification with no findings



Lean Manufacturing and QC implemented

- More molding operations insourced, enabling better production control
- Operational efficiency substantially improved through lean converted manufacturing and further insourcing of molding

BEFORE







AFTER









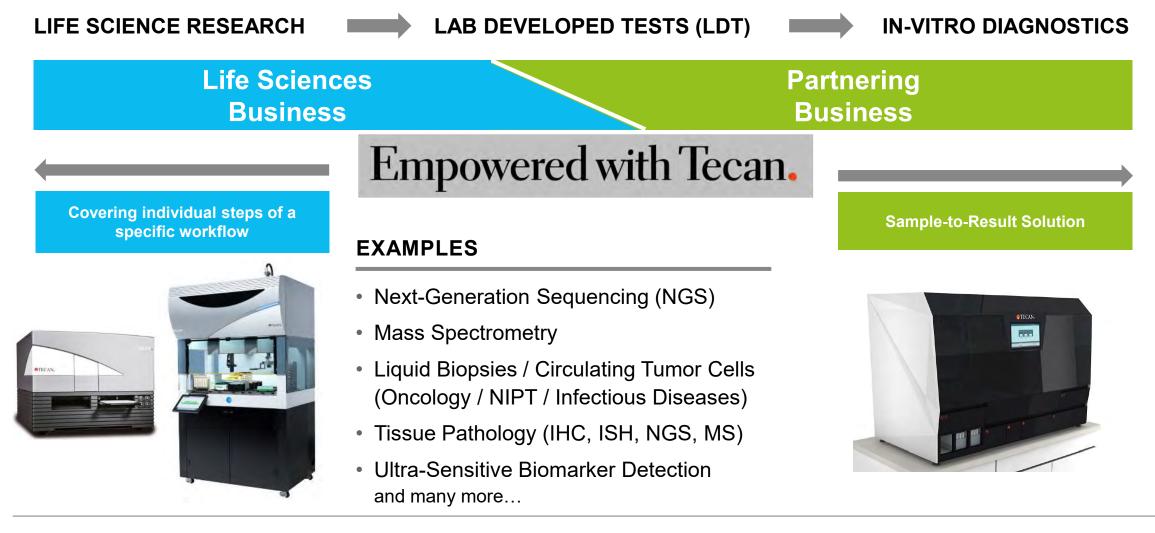






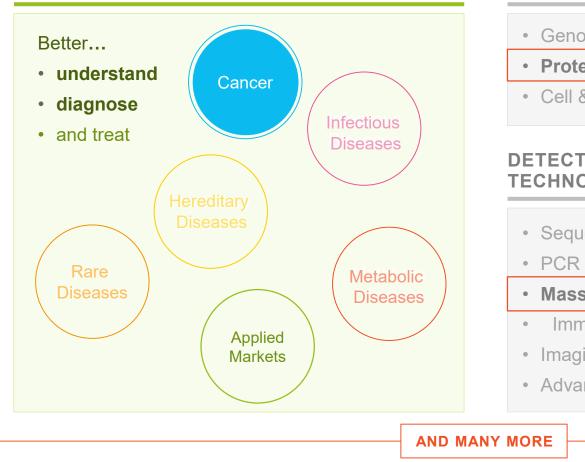
Transition from Research to Diagnostics

TECAN HAS A UNIQUE POSITION TO BRIDGE FROM RESEARCH TO DIAGNOSTICS SETTINGS



Focus on Key Application Area: Protein Analysis FROM DISCOVERY OF NOVEL MEDICATIONS ALL THE WAY TO BETTER DIAGNOSIS OF DISEASES

HEALTHCARE USE



Binding

Site

APPLICATIONS

- Genomics
- Protein analysis
- Cell & tissue analysis

DETECTION & ASSAY TECHNOLOGIES

- Sequencing
- Mass Spectrometry
- Immunoassays
- Imaging
- Advanced Staining

TECAN'S ENABLING COMPETENCIES

- Applications and Workflows
- Robotics and Automation
- Software and Informatics
- Detection and Imaging
- Precision Handling of Liquids
- Reagents and Consumables

All built on a robust foundation of:

- Product Development and Systems Integration Expertise
- Quality Management System
- Regulatory Expertise
- Efficient Operations



The Future of Monoclonal Gammopathy Patient Management: The importance of precision in laboratory medicine

Dr. Stephen Harding Chief Scientific Officer



Protein diagnostics. Smart solutions.

Binding

Committed to improving patients lives worldwide through education, collaboration and innovation.

What makes The Binding Site unique

Successfully commercialising

- Exceptional track record & outlook
- Growing installed base, high entry barriers
- Strong and motivated management team

Opening and growing markets

- Growing niche segments
- Market leadership
- Opening broader markets

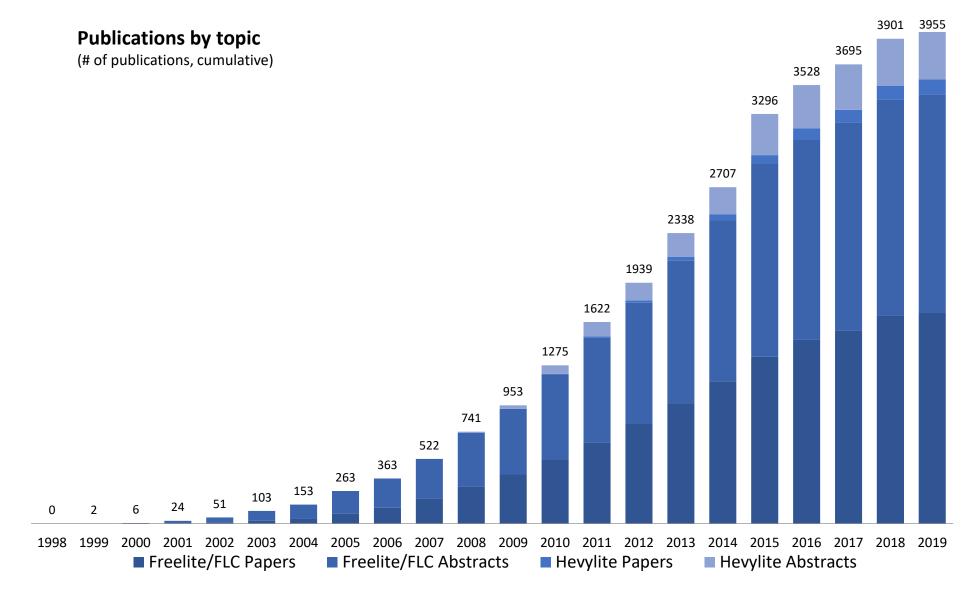
Unparalleled science

- Setting global reference standards
- Deep scientific research...
- ...generating strategic opportunities



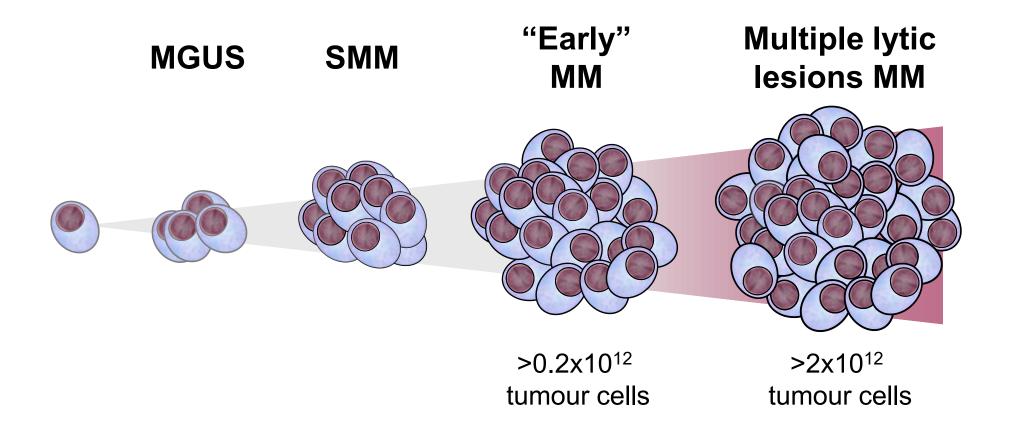


Long-standing record of collaborative scientific research



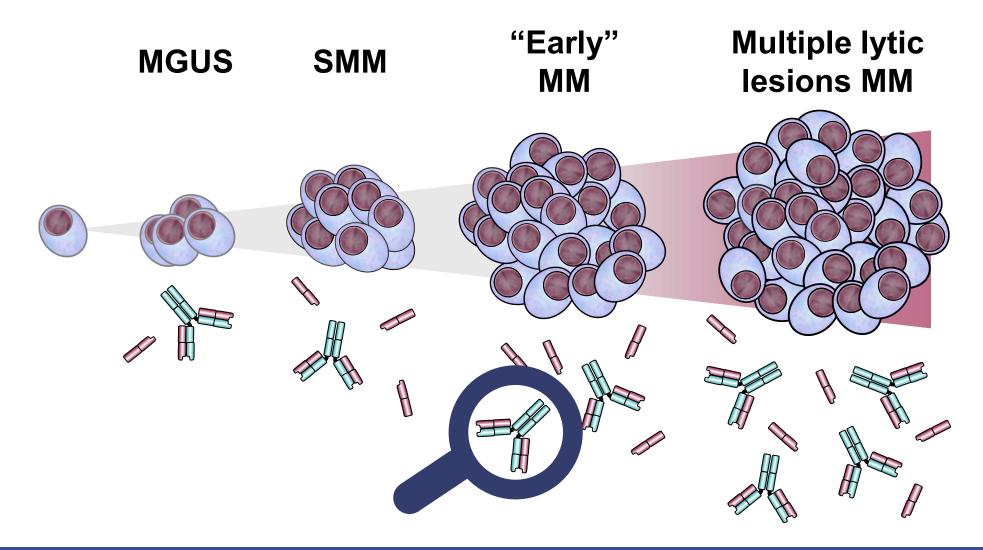


Evolution to multiple myeloma



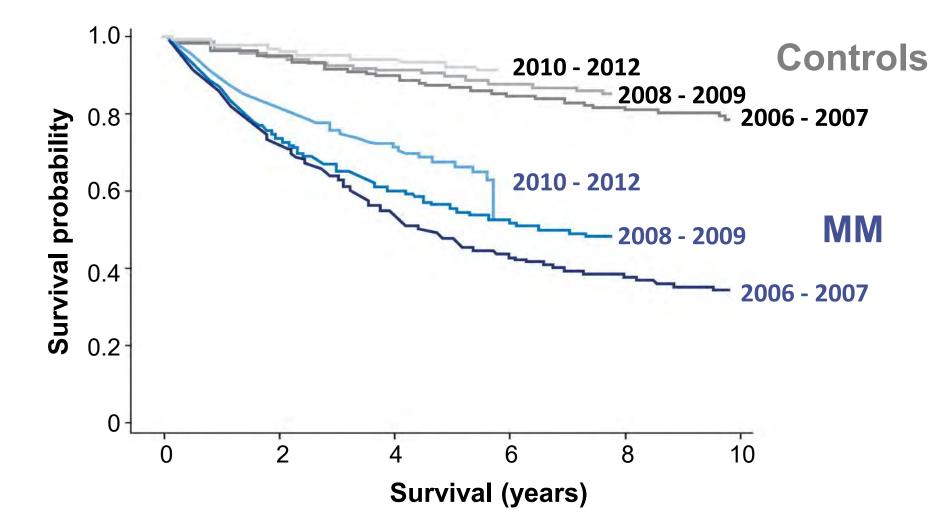
4

Evolution to multiple myeloma

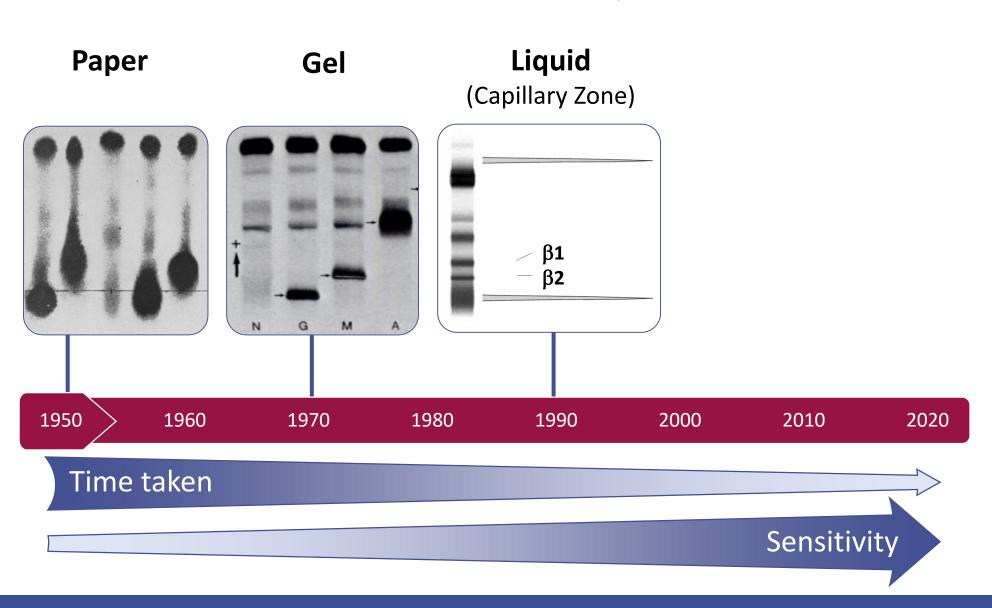


5

MM survival, by year of diagnosis

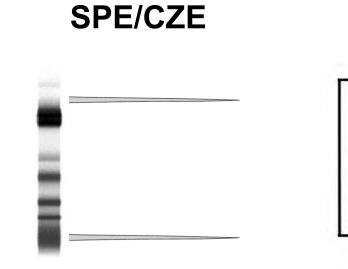


Evolution of electrophoresis



Limit of Detection / Limit of Quantitation

	LoD	LoQ
SPE	1000 mg/L	1-3000mg/L
IFE	50-100mg/L	N/A



Sensitivity: 1000 mg/L (CV>30%)

Co-migration

Sensitivity: 100 mg/L

М

A

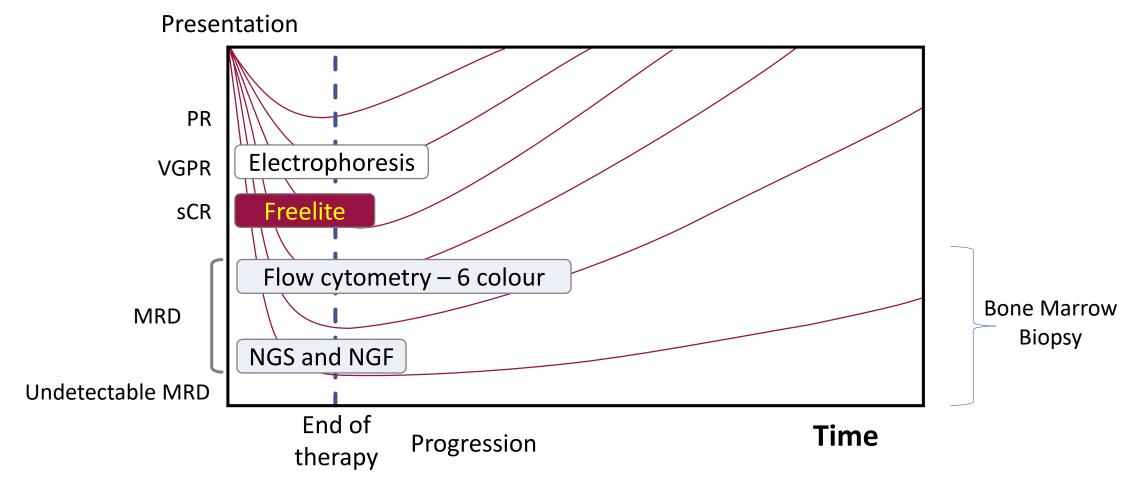
K L

ELP G

IFE

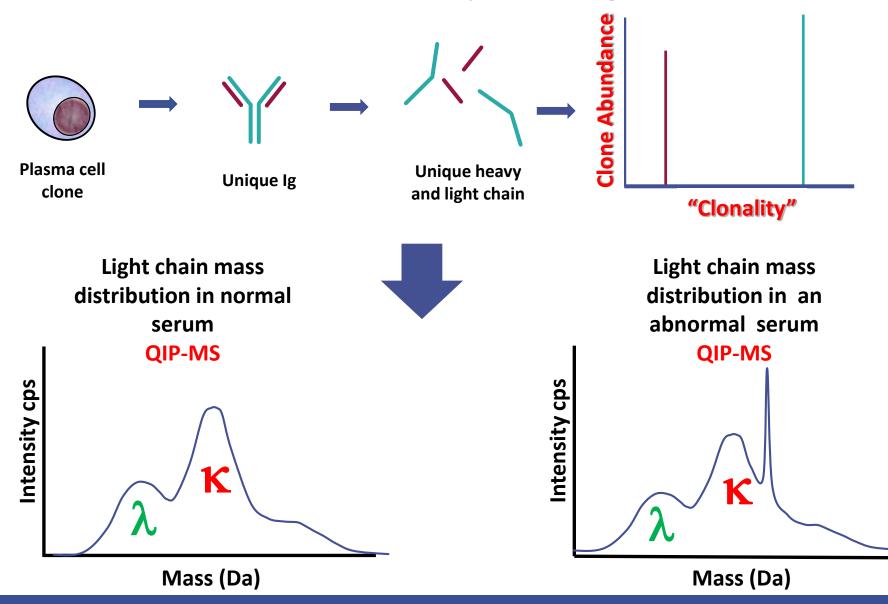
Non-quantitative

Laboratory methods to assess depth of response

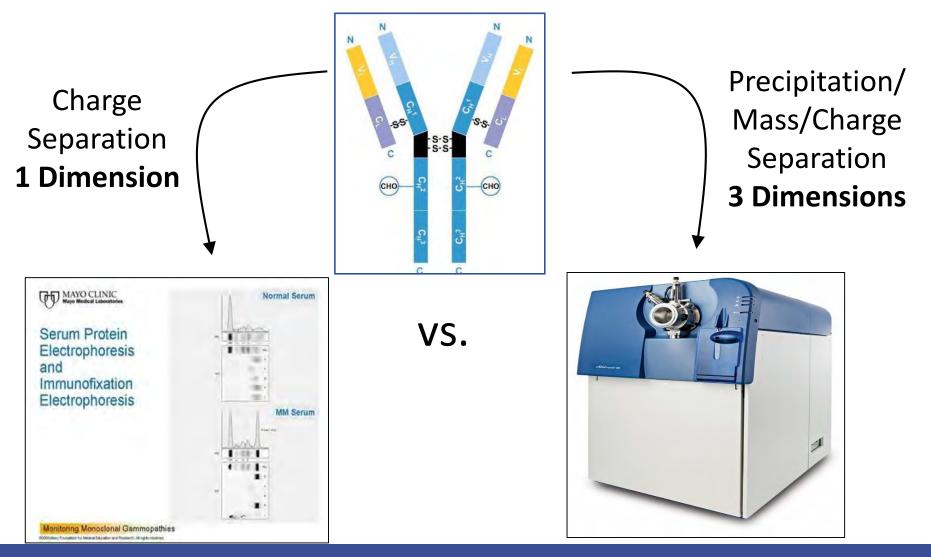




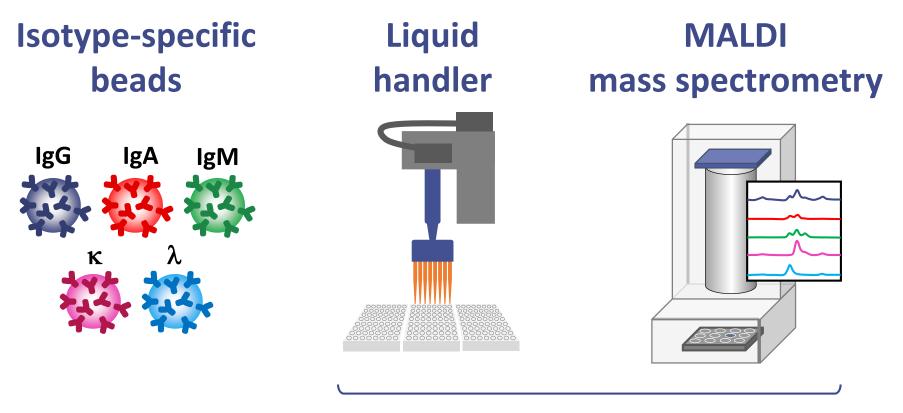
The basic paradigm



How does mass spectrometry-based detection of M-proteins improve sensitivity?



The Binding Site solution



Integrated Clinical Analyser

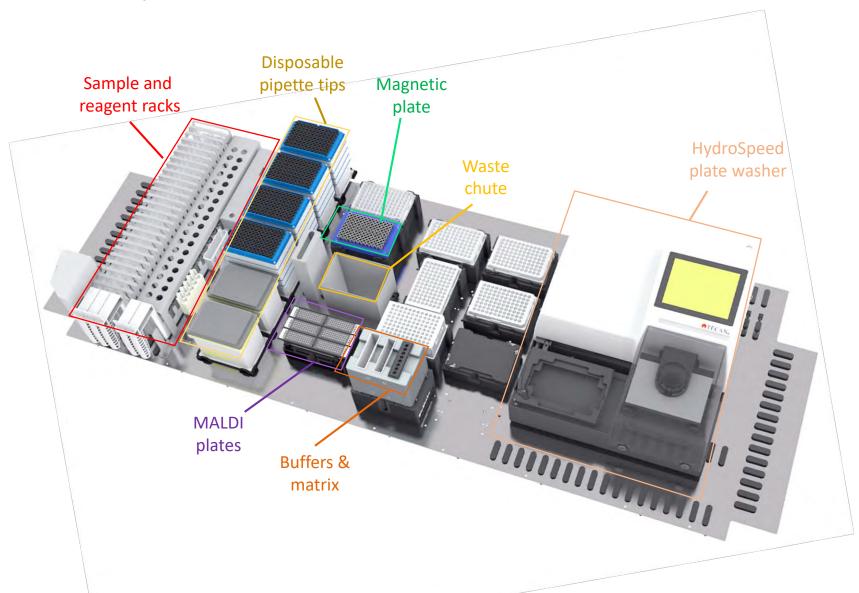
Liquid Handling and Automation



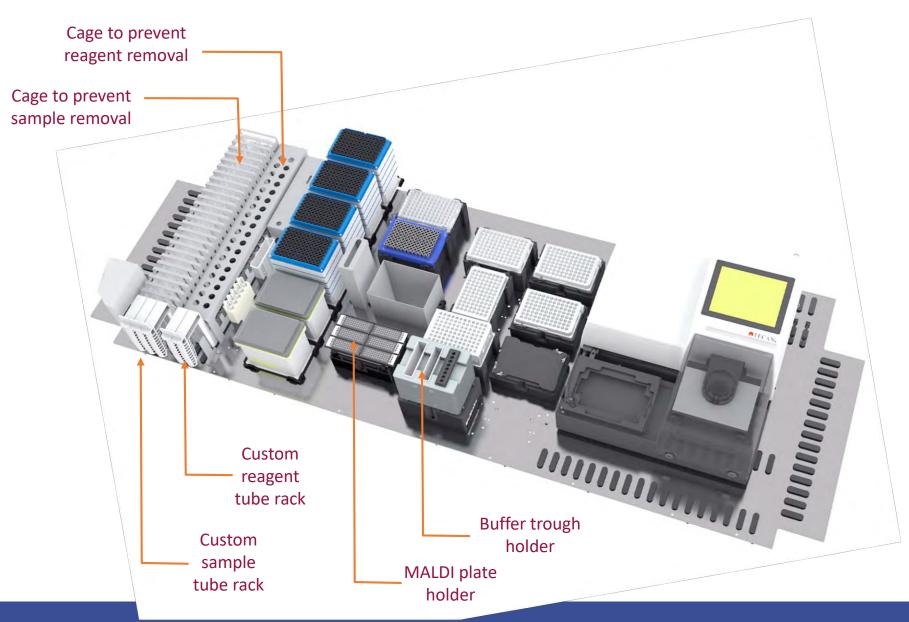
- **Customized** Fluent 780 from Tecan
- Final product will be branded with a new system name trademarked to Binding site



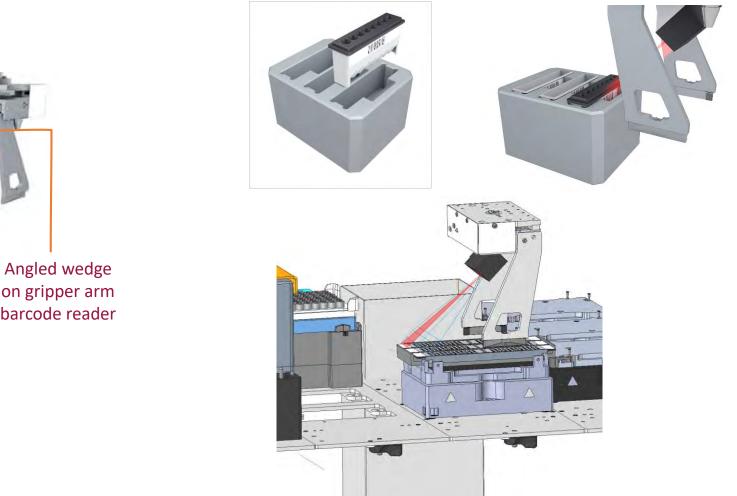
Liquid Handler - Deck overview



Liquid Handler - Custom Designed Parts



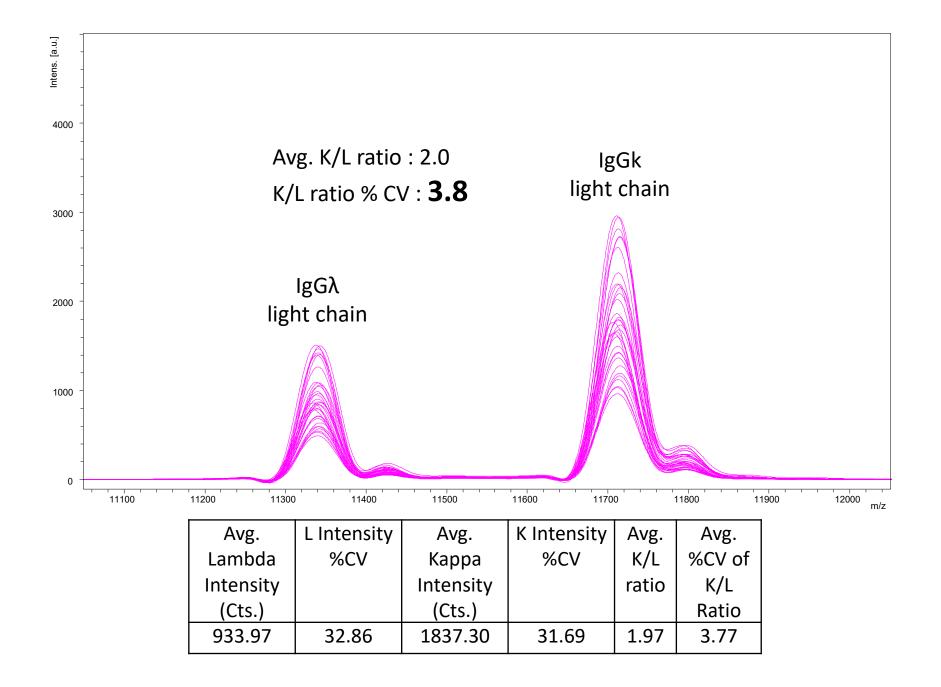
Liquid Handler - Custom Designed Parts





on gripper arm barcode reader

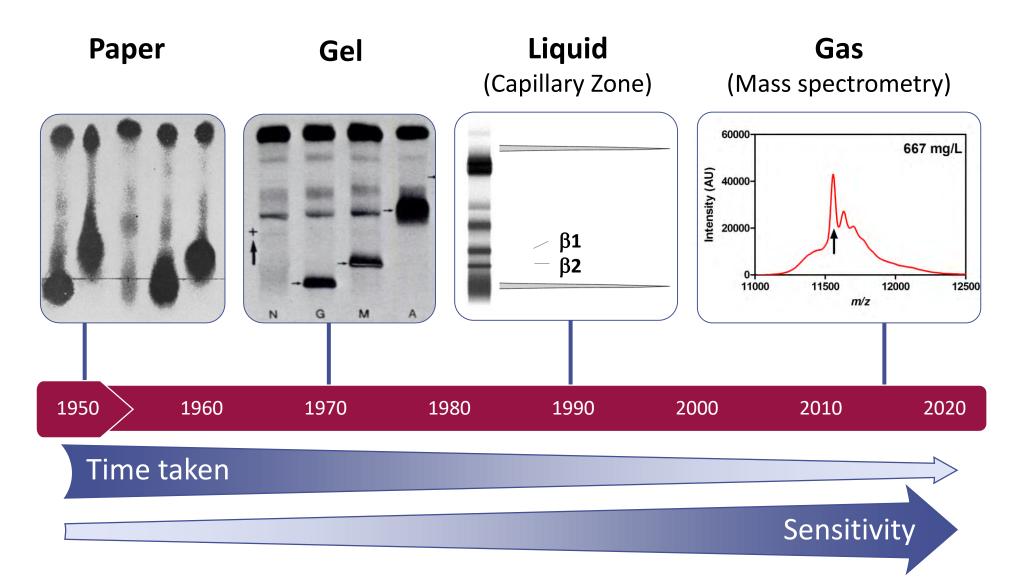




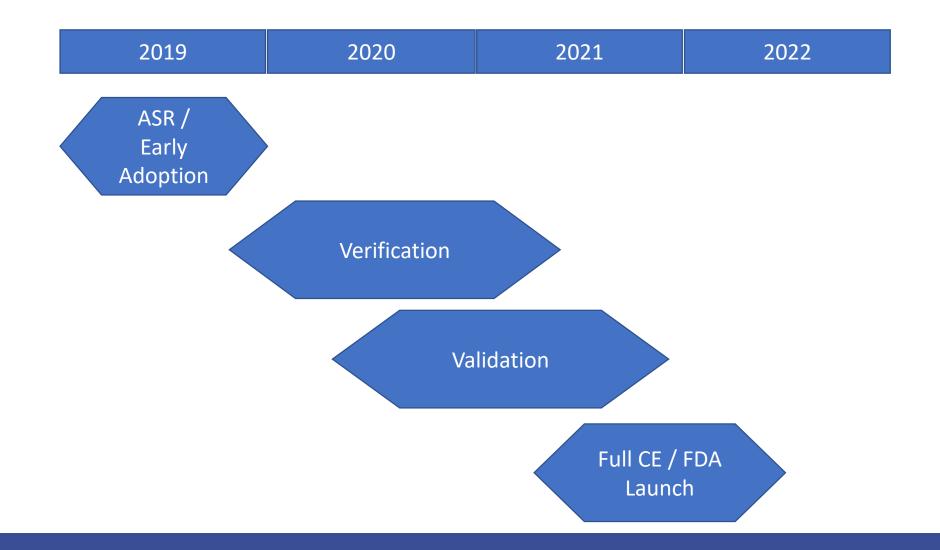
Limit of Detection / Limit of Quantitation

	LoD	LoQ
SPE	1000 mg/L 1-3000mg/L	
IFE	50-100mg/L	N/A
IgG Mass Spec	1mg/L	24mg/L
IgA Mass Spec	1mg/L 8mg/L	
IgM Mass Spec	1mg/L	8mg/L

Evolution of electrophoresis



Anticipated Timelines



TBS / Tecan Collaboration

- Engaged in discussions at AACC 2017
- Superior engineering enabling primary tube to spot pipetting
- Collaborative approach to improving spot to spot precision for our assay
- Engaged technical and commercial team, focused on delivering TBS prototypes / systems against challenging timelines
- Monoclonal immunoglobulins the first in a suite a assays which will rely upon
 - Precision
 - Accuracy
 - Reproducibility



Coffee break.



MIP OID OIL

Agenda Capital Markets Day 2019

68

Time	Duration	Торіс	Presenter
8:45 – 10:00		Empowering the Century of Biology	Achim von Leoprechting, CEO
		Application focus: Genomics	
		Tecan's offering and strategy	Klaus Lun, EVP, Head Life Sciences Business
		Customer presentation: Ambry Genetics	Joy Crandall, Director of Assay Automation
10:00 - 10:15	15 min	Coffee Break	
10:15 – 11:15		Application focus: Cell & Tissue Analysis	
		Tecan's offering and strategy	Klaus Lun, EVP, Head Life Sciences Business
		Application focus: Protein Analysis	
		Tecan's offering and strategy	Klaus Lun, EVP, Head Life Sciences Business
		Customer presentation: The Binding Site	Stephen Harding, CSO
11:15 – 11:30	15 min	Coffee Break	
11:30 – 13:00		Tecan's Enabling Competencies	
		Innovation for the Century of Biology	Wael Yared, designated CTO and Head R&D
		Operational Efficiency as the foundation	Ulrich Kanter, Head Operations & IT (presented by Achim von Leoprechting, CEO)
		Focus topic: Partnering Business	Achim von Leoprechting, CEO
		Summary & Close	Achim von Leoprechting, CEO
		Q&A	All



Technology Opportunities in a Dynamic Landscape

DR. WAEL YARED - DESIGNATED CTO & HEAD R&D



Technology Opportunities in a Dynamic Landscape

FROM DISCOVERY OF FUNDAMENTAL BIOLOGY TO BETTER DIAGNOSIS AND TREATMENT OF DISEASES

MOLECULAR BIOLOGY

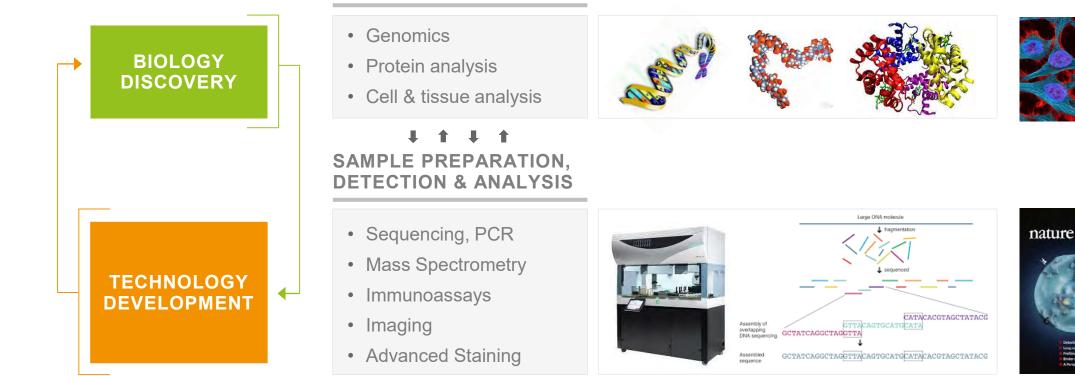


Photo credits: National Human Genome Research Institute

Self-reinforcing cycles of scientific discovery and technology development leading to improved understanding, diagnosis and treatment of disease



Nat Methods, May 2019

proteins and RNAs in single

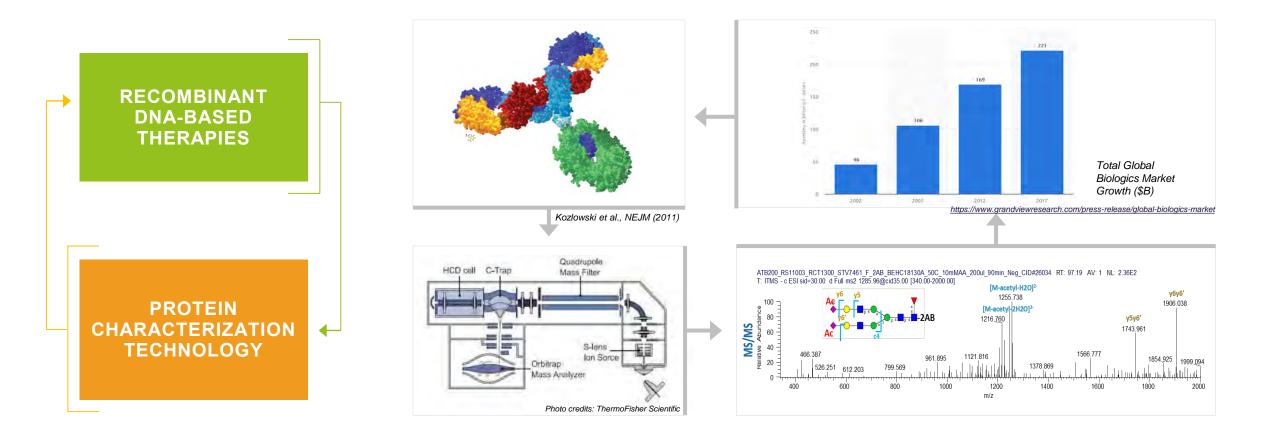
Detecting

cells

70

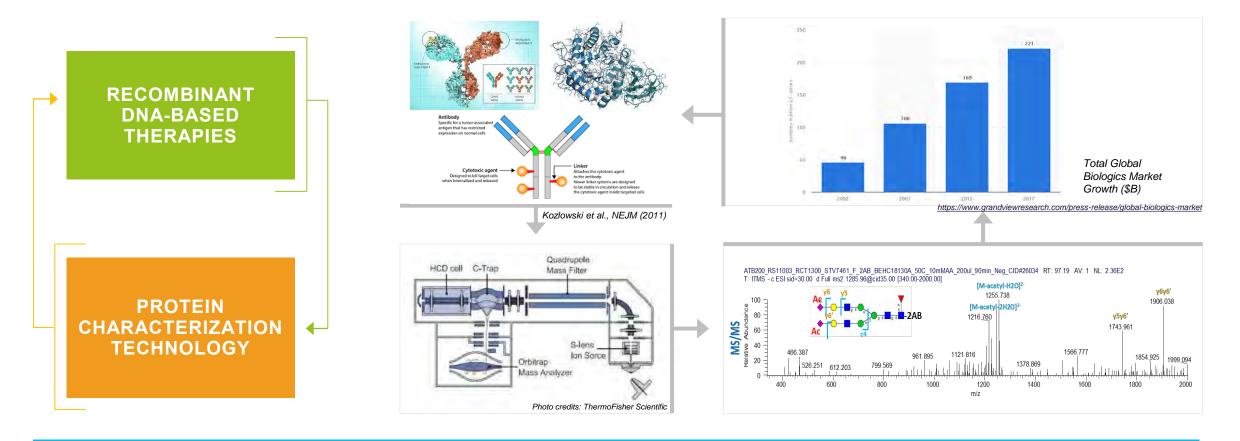
Technology Opportunities in a Dynamic Landscape

FROM DISCOVERY OF FUNDAMENTAL BIOLOGY TO BETTER DIAGNOSIS AND TREATMENT OF DISEASES



Technology Opportunities in a Dynamic Landscape

FROM DISCOVERY OF FUNDAMENTAL BIOLOGY TO BETTER DIAGNOSIS AND TREATMENT OF DISEASES

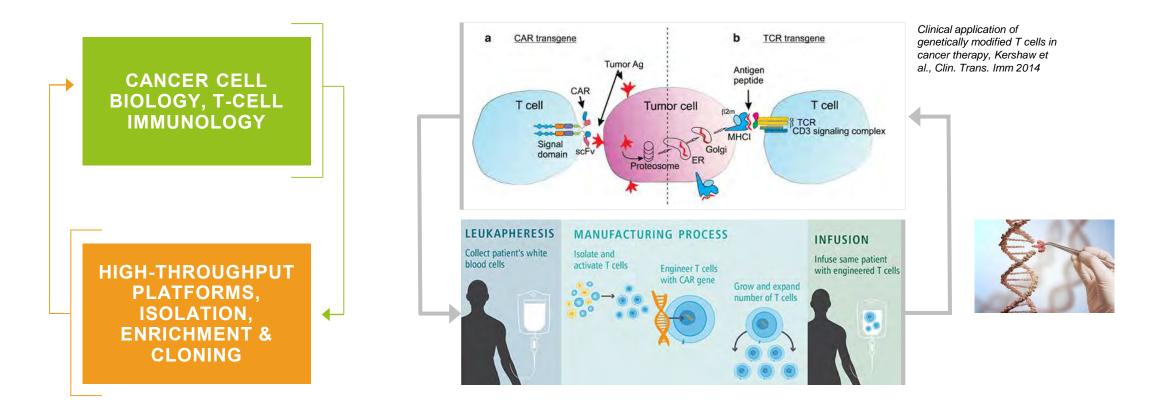


Cyclical growth for the last 30 years with increasing intensity

 $_{72}$

Technology Opportunities in a Dynamic Landscape

FROM DISCOVERY OF FUNDAMENTAL BIOLOGY TO BETTER DIAGNOSIS AND TREATMENT OF DISEASES

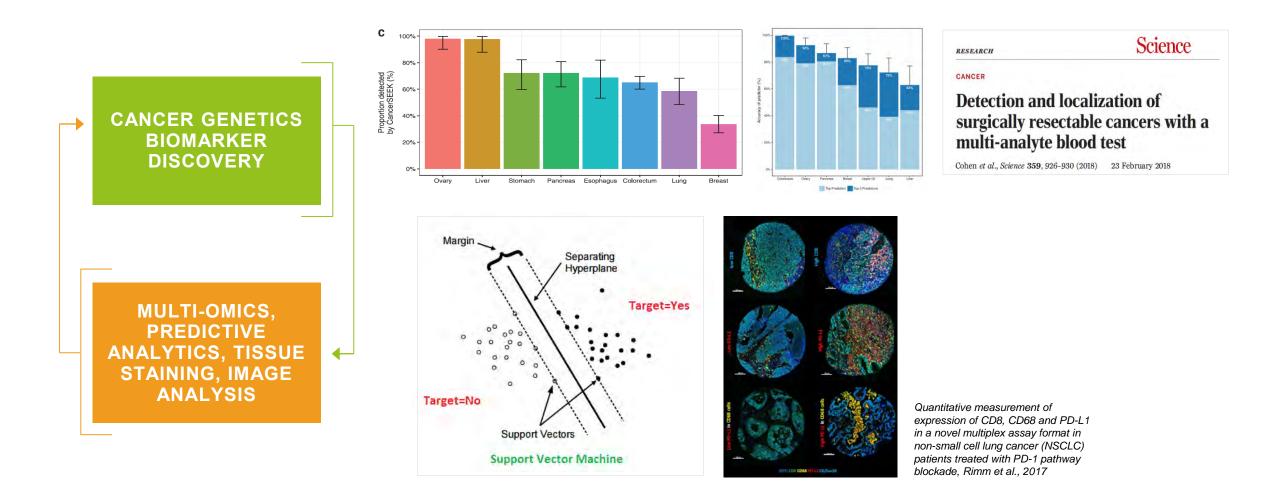


Research, diagnosis and therapy yearly breakthroughs



Technology Opportunities in a Dynamic Landscape

FROM DISCOVERY OF FUNDAMENTAL BIOLOGY TO BETTER DIAGNOSIS AND TREATMENT OF DISEASES



• TECAN•

Tecan Competencies Empowering the Century of Biology

FROM DISCOVERY OF FUNDAMENTAL BIOLOGY TO BETTER DIAGNOSIS AND TREATMENT OF DISEASES

What do these dynamic end markets then require?

- True understanding of the underlying science and user workflows
- Active probing of underserved needs
- State of the art skills, processes and infrastructure
- Nimble, adaptive response to user requirements

Modular architectures and development disciplines Innovative skillsets & business engagements

TECAN'S ENABLING COMPETENCIES

- Applications and Workflows
- Robotics and Automation
- Software and Informatics
- Detection and Imaging
- Precision Handling of Liquids
- Reagents and Consumables

All built on a robust foundation of:

- Product Development and Systems
 Integration Expertise
- Quality Management System
- Regulatory Expertise
- Efficient Operations



What are the benefits of increased modularity?



Modularity – changing how we develop and deploy solutions

TRADITIONAL PLATFORM DEVELOPMENT

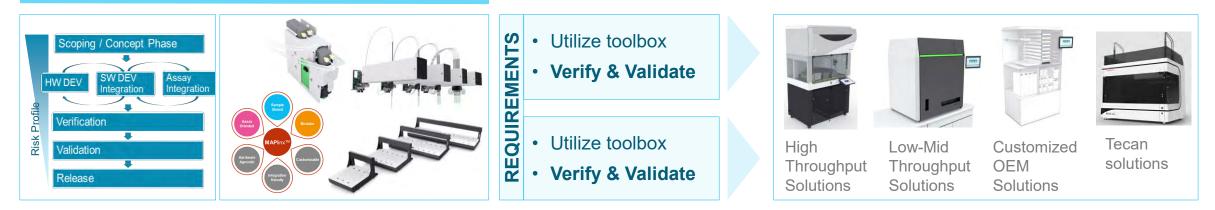


- Develop HW
- Develop SW
- Integrate
- Verify
- Validate



- Large platforms
- Long development and validation cycles
- Complex life cycle
 management burdens

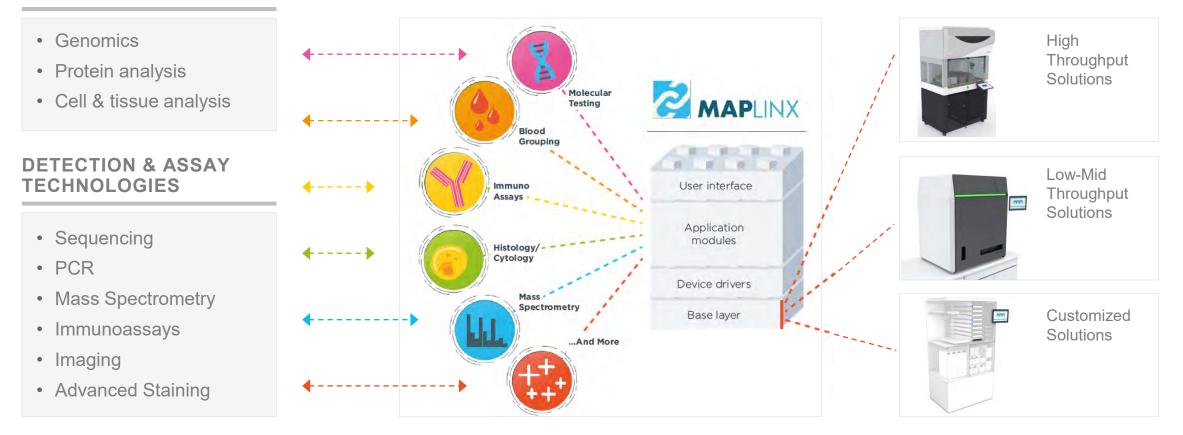
INNOVATIVE, MODULAR PLATFORM DEVELOPMENT





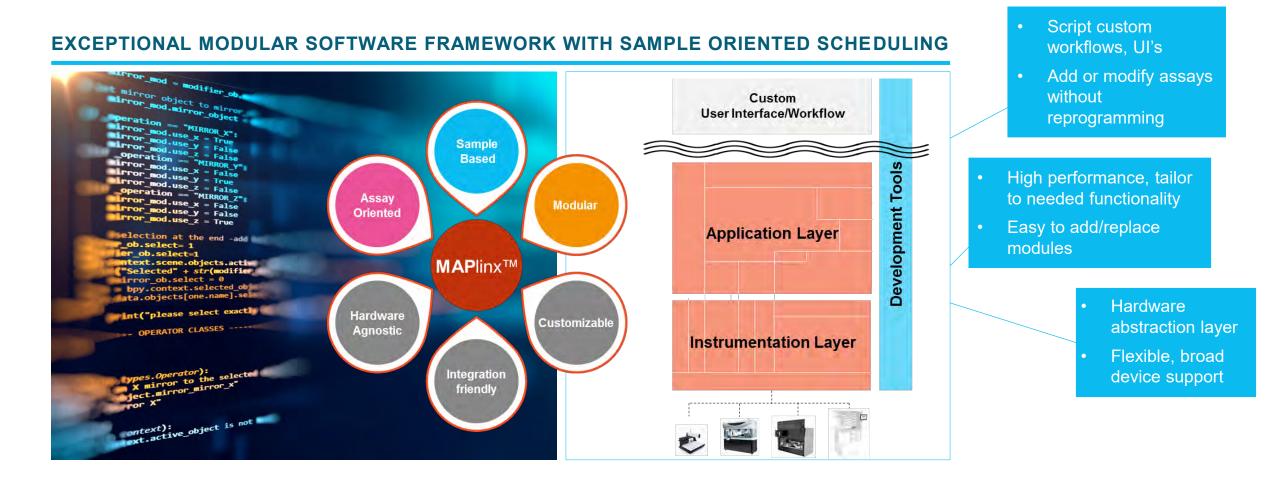
A modular portfolio enables nimble response to market needs and more efficient commercialization

APPLICATIONS

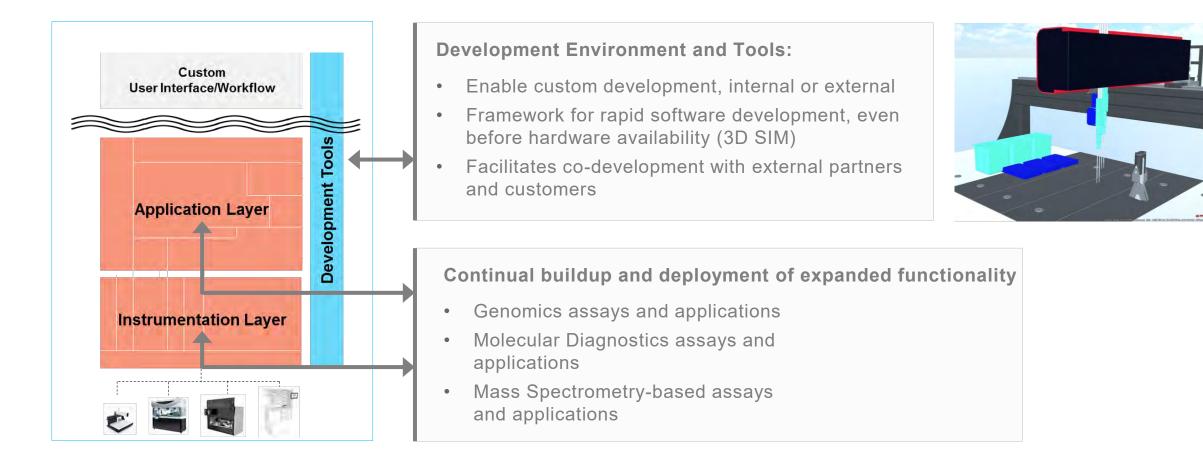


•TECAN•

Software Modularity: **MAP**linx[™] Architecture and Development Tools

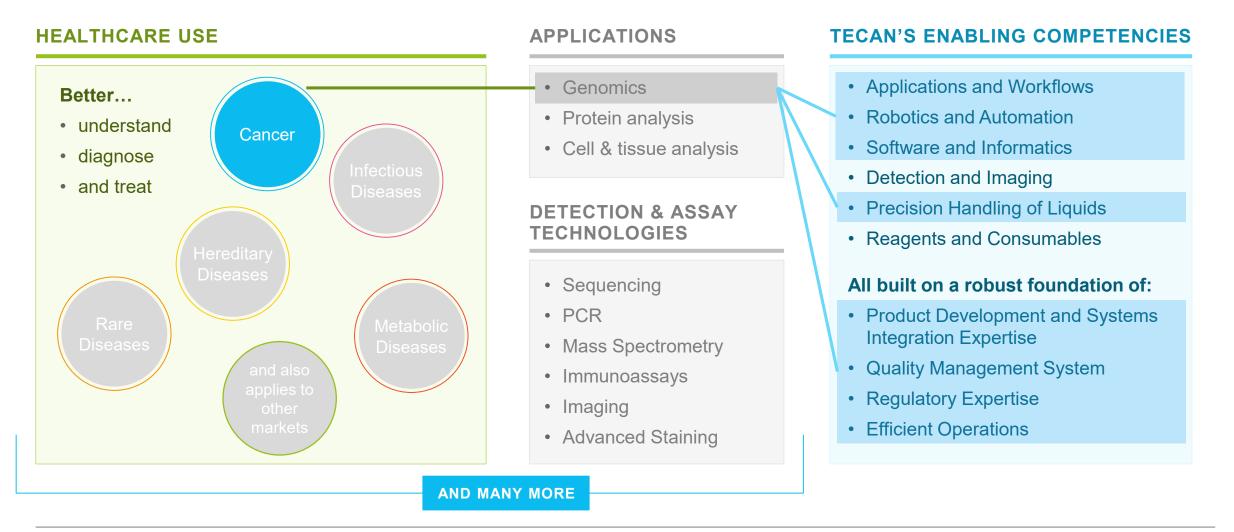


Software Modularity: **MAP**linx[™] Architecture and Development Tools





Example of the modular approach at work... NGS LIBRARY PREPARATION WORKSTATION FOR ONCOLOGY APPLICATIONS



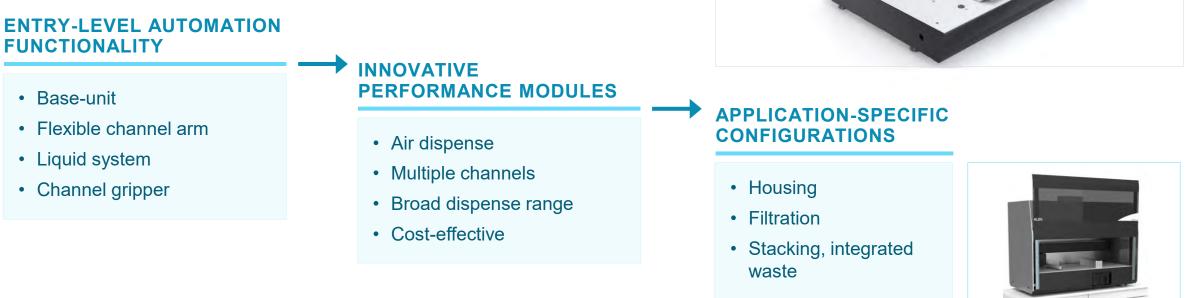
OTECAN

81

Hardware Modularity: Cavro® MagniFlex Based Solutions

- A true modular automation platform powered by the modular MAPlinx[™] software architecture
- An evolution of the Xantus platform from SIAS, multi-site development project across Tecan



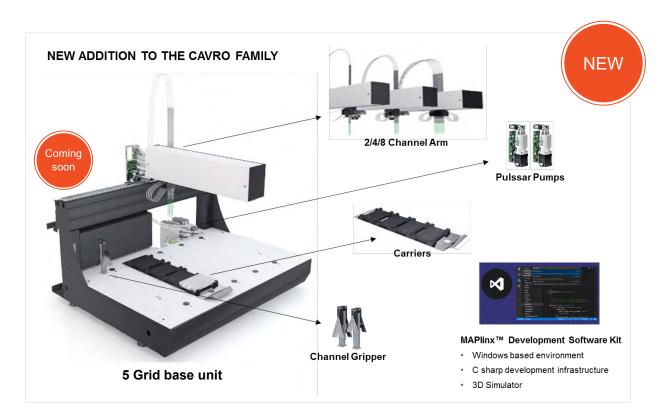




Hardware Modularity: Cavro® MagniFlex Based Solutions

Multiple cycles of development, validation and deployment:

- Deployment of Cavro[®] MagniFlex basic automation solution
- A flexible, configurable starting point for component and platform projects with innovative performance features
 → benefit from economies of scale with a common platform
- Aim towards end-application specific configurations for Tecan and OEM offerings



🖪 TECA N

All synchronized with continuing roll-out of MAPlinx[™] modules



Innovative Skillsets leading to new business engagements



Introspect[™] Software

INCREASING LAB PRODUCTIVITY WITH UNPARALLELED INSIGHTS

- Connecting automation workstations through secure cloud-based reporting and analysis service
- Introspect dashboards provide real data on instrument uptime, consumables consumption and run success rates
- Even historical and archived instrument data can be uploaded
- One or more instruments, even across multiple locations, can be connected



Introspect at a glance



ANALYZE MULTIPLE INSTRUMENTS



VISUALIZE INSTRUMENT, LAB OR SITE

ANALYZE ACROSS MULTIPLE SITES



DEFINE SPECIFIC KPI'S

CUSTOMIZABLE FOR USERS



SECURE, ENCRYPTED DATA



Introspect is an outstanding tool for gaining insight on utilization, productivity and consumables usage.

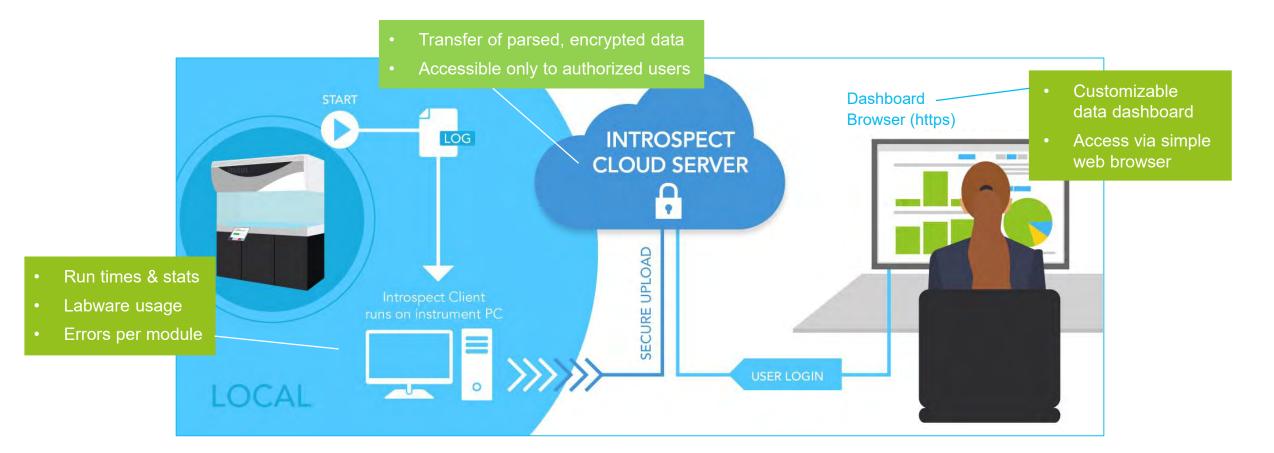


86



Empowering Customer Insight!





Automated data flow and secure upload to the cloud allows easy access from anywhere.



C 2018, Near Testing AC, Switzstand, al open recovery Discarree

DiTi Count

DiTi Count

Error Count

Labware Count

Instrument Runtime

Successful Run Count

Introspect benefits

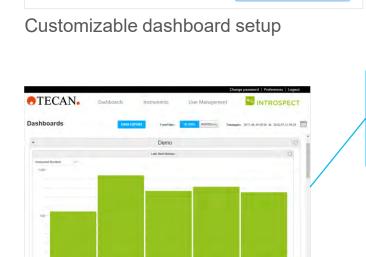


ATTAIN FASTER PRODUCTION AND LOWER COSTS

INCREASE PRODUCTIVITY



REAP THE BENEFITS OF AUTOMATED SOLUTIONS



Thursday

Max active filters 😵

Alias

User MethodName

RunName

DiTiName

ErrorName

Lab

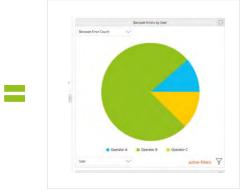
DiTiName

LabwareName

InstrumentState RunStatus

 \sim

SerialNumber



Result of analyzed data

Review Runtime per day – detect less efficient weekdays









UNDERSTAND CONSUMABLE USAGE AND COSTS

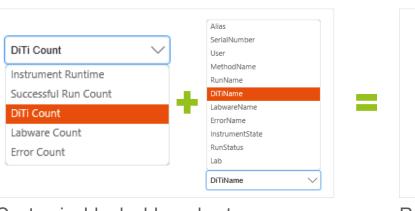
ATTAIN FASTER PRODUCTION AND LOWER COSTS

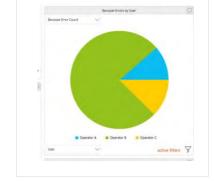
INCREASE PRODUCTIVITY

UNDERSTAND SYSTEM UTILIZATION









DiTi Count

DiTi Count

Error Count

Labware Count

Instrument Runtime

Successful Run Count

Introspect benefits

UNDERSTAND SYSTEM UTILIZATION

ATTAIN FASTER PRODUCTION AND LOWER COSTS

INCREASE PRODUCTIVITY

REAP THE BENEFITS OF

AUTOMATED SOLUTIONS

USAGE AND COSTS

UNDERSTAND CONSUMABLE

Customizable dashboard setup

Alias

User MethodName

 \sim

SerialNumber

RunName

DiTiName

ErrorName

Lab

DiTiName

LabwareName

InstrumentState RunStatus

 \sim

Result of analyzed data

Barcocke Emons by User

Review Labware Consumption by type





TECAN



Tecan Competencies Empowering the Century of Biology FROM DISCOVERY OF NOVEL MEDICATIONS ALL THE WAY TO BETTER DIAGNOSIS OF DISEASES

HEALTHCARE USE



APPLICATIONS

- Genomics
- Protein analysis
- Cell & tissue analysis

DETECTION & ASSAY TECHNOLOGIES

- Sequencing
- PCR
- Mass Spectrometry
- Immunoassays
- Imaging
- Advanced Staining

AND MANY MORE

TECAN'S ENABLING COMPETENCIES

- Applications and Workflows
- Robotics and Automation
- Software and Informatics
- Detection and Imaging
- Precision Handling of Liquids
- Reagents and Consumables

All built on a robust foundation of:

- Product Development and Systems Integration Expertise
- Quality Management System
- Regulatory Expertise
- Efficient Operations



Empowering the

Century of Biology.



Ballealball

Operational Efficiency as the Foundation

ULRICH KANTER, HEAD OPERATIONS & IT Presented by Achim von Leoprechting, CEO

•</t

Driving Operational Efficiency

SIGNIFICANT IMPROVEMENTS IN OPERATIONAL EFFICIENCY IN RECENT YEARS

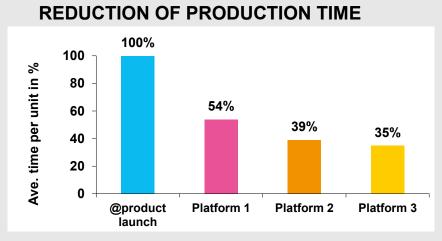
GLOBAL SUPPLY CHAIN DRIVING MATERIAL COST SAVINGS

- Supplier relocation and consolidation
- Global alignment of procurement activities
- Significant material cost savings achieved between 2014-2018
- Activities to continue, but low-hanging fruits captured
- Cost improvements going forward increasingly shifting to design-to-cost benefits from modular product portfolio

LEAN PRODUCTION HAS ENABLED EFFICIENCY GAINS

- Ongoing conversion of all production lines to line-flow priciple
- KanBan module assembly ship to line
- Significant improvements in hours of labor time to produce each instrument

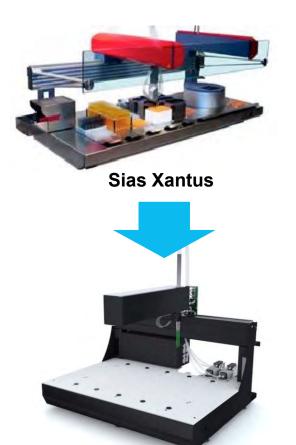




CASE STUDY: 3 MAJOR INSTRUMENT PLATFORMS

M&A Case Study: Sias

MAIN FOCUS OF ACQUISITION: CONSOLIDATION AND COST CASE



Cost- and performance optimized Cavro[®] MagniFlex

- Sias, a Swiss OEM supplier with complementary product portfolio, acquired in 2015
- Legally merged and fully integrated with Swiss manufacturing subsidiary at Tecan HQ in Maennedorf
- New accounts added to Partnering Business portfolio
- Synergies in R&D and operations realized
- Operational efficiency substantially improved through lean converted manufacturing and consolidated procurement
- Turned from break-even into a profitable business
- SIAS Xantus created the basis for Tecan's new cost- and performance optimized entry level platform Cavro[®] MagniFlex



M&A Case Study: Long-term Supplier of Key Parts MAIN FOCUS OF ACQUISITION: VERTICAL INTEGRATION BENEFITS AND COST CASE





- Acquisition of long-term supplier closed at end of May
- Vertically integration of critical precision-machined parts manufacturing
- Two manufacturing sites, one in California, USA, and a second site in Vietnam
- Tecan is the largest customer of this supplier, making up for a significant share of revenues
- Cost benefits by internalizing the supply are expected to enhance the operating profitability

Regulatory Expertise is a Key Differentiator

REGULATORY COMPLIANCE IS A MUST

- Regular audits performed by international authorities
 - Main instrument production sites have been FDA inspected between 2014-2016, all with zero findings
- Instrument manufacturing in Maennedorf and IA production in Hamburg, Germany, MDSAP (Medical Device Single Audit Program) certified
- Extensive audits by customers at production sites, including leading IVD companies
- ISO 13485 and ISO 9001 certified production, sales and service sites

SUPPORTING OUR CUSTOMERS

- Supporting customers with 510k and PMA applications for new diagnostic instruments
- Unique position helping customers to bridge from research to diagnostics settings
- Leading provider of FDA-listed Class 1 medical device liquid handling workstations





District	Firm Name	City	State	Zip Code	Country / Area	Inspection End Date	Center	Project Area	Classification
ORA	Tecan Schweiz Ag	Mannedorf			СН	04/14/16	CBER	Blood and Blood Products	NAI
ORA	Tecan Austria GmbH	Groedig			AT	11/13/14	CDRH	Compliance: Devices	NAI
ORA	Tecan Schweiz Ag	Mannedorf			CH	04/14/16	CDRH	Compliance: Devices	NAI
SAN	Tecan Systems	San Jose	CA	95131	US	11/24/15	CDRH	Compliance: Devices	NAI
ORA	Tecan Schweiz Ag	Mannedorf			CH	04/14/16	CDRH	Postmarket Assurance: Devices	NAI
SAN	Tecan Systems	San Jose	CA	95131	US	11/24/15	CDRH	Postmarket Assurance: Devices	NAI



Tecan Partnering – The Tecan Advantage

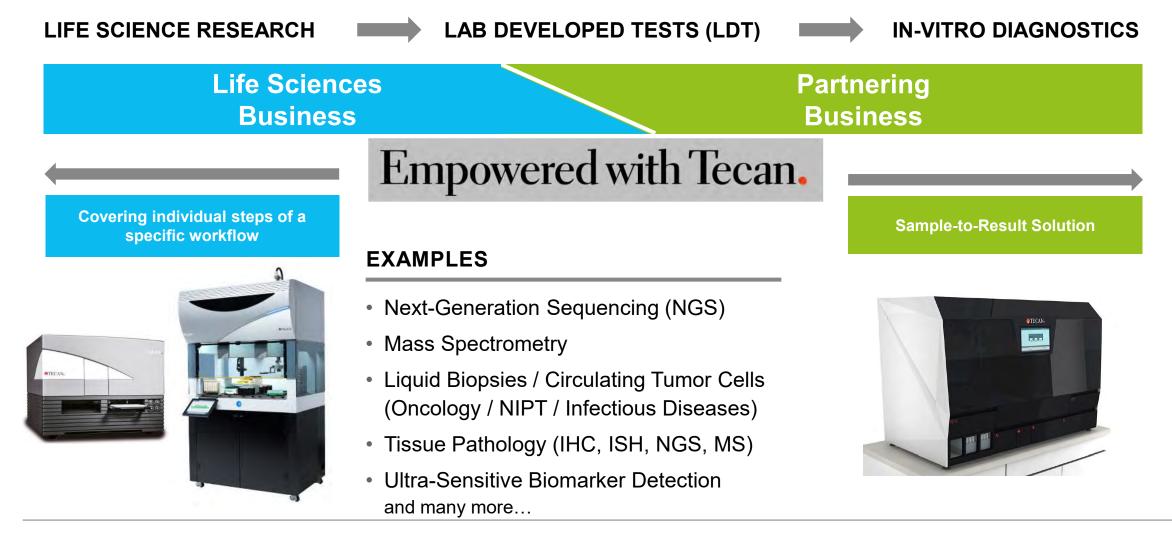
DR. ACHIM VON LEOPRECHTING

CEO



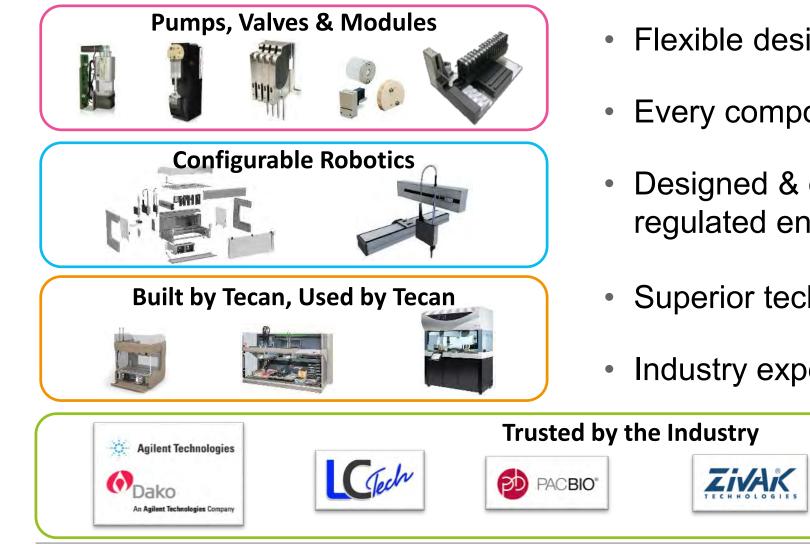
Transition from Research to Diagnostics

TECAN HAS A UNIQUE POSITION TO BRIDGE FROM RESEARCH TO DIAGNOSTICS SETTINGS



From a Critical OEM Component to a Fully Integrated System TECAN PARTNERING'S OFFERING COVERS THE WHOLE SPECTRUM OF OEM AUTOMATION STANDARD AND CUSTOM **OEM SYSTEM DEVELOPMENTS BASED** OEM SYSTEM DEVELOPMENTS **ON TECAN'S MODULAR TOOLBOX OEM COMPONENTS FROM SCRATCH** Tecan Synergence[™] **Tecan Cavro**[®] Your OEM partner of choice Your engineering empowered Your vision empowered **ALWAYS THERE FOR YOU** Tailored solutions to match customer's workflows Tecan In depth understanding of the key Tecan Synergenc Additional applications in IVD and life science 6 Fully abreast of the changing regulatory landscape True partnership **P**TECAN

Tecan Cavro[®] – Your Engineering Empowered



- Flexible designs & custom solutions
- Every component is quality tested
- **Designed & documented for** regulated environments
- Superior technical support
- Industry expertise (40+ years)

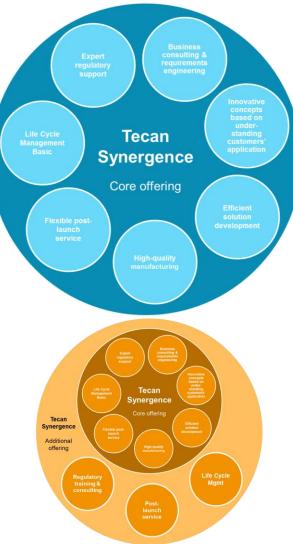
NGN

PTECAN

And more...

Tecan Partnering launches «Synergence» Brand SYNERGISTIC PARTNERSHIP AND EXCELLENCE – YOUR VISION EMPOWERED





CORE OFFERING

- Business consulting and requirements engineering
- Innovative concepts based on customer requirements
- Efficient solution development
- High-quality manufacturing
- Flexible in-market service & support
- Life-cycle management
- Expert regulatory support

ADDITIONAL OFFERINGS

- Extended life-cycle management packages
- Total service packages
- Instrument refurbishment
- Training and consulting

Partner of Choice to the IVD Industry

40+ ACTIVE INSTRUMENT ACCOUNTS, MULTIPLE DEVELOPMENTS IN PROGRESS



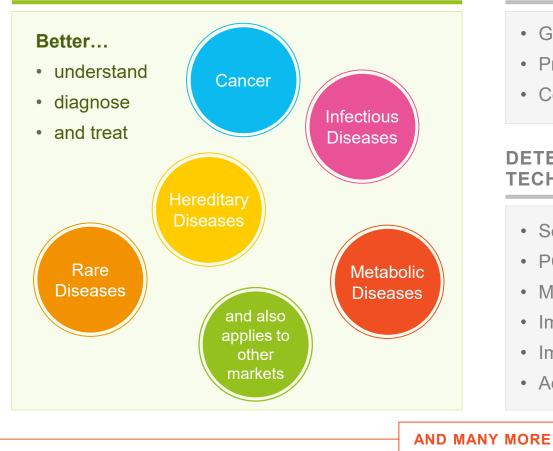
To better understand, diagnose & treat diseases

TECAN. EMPOWERING THE CENTURY OF BIOLOGY.

•</t

The Mission of Tecan and the Company's Employees **EMPOWERING THE CENTURY OF BIOLOGY – OUR PURPOSE**

HEALTHCARE USE



APPLICATIONS

- Genomics
- Protein analysis
- Cell & tissue analysis

DETECTION & ASSAY TECHNOLOGIES

- Sequencing
- PCR
- Mass Spectrometry
- Immunoassays
- Imaging
- Advanced Staining

TECAN'S ENABLING COMPETENCIES

- Applications and Workflows
- Robotics and Automation
- Software and Informatics
- Detection and Imaging
- Precision Handling of Liquids
- Reagents and Consumables

All built on a robust foundation of:

- Product Development and Systems Integration Expertise
- Quality Management System
- Regulatory Expertise
- Efficient Operations



Tecan Supports the UN Sustainable Development Goals

OUR PRODUCTS AND SERVICES MAINLY SUPPORT SDG 3, BUT ALSO OTHERS

SUSTAINABLE G ALS

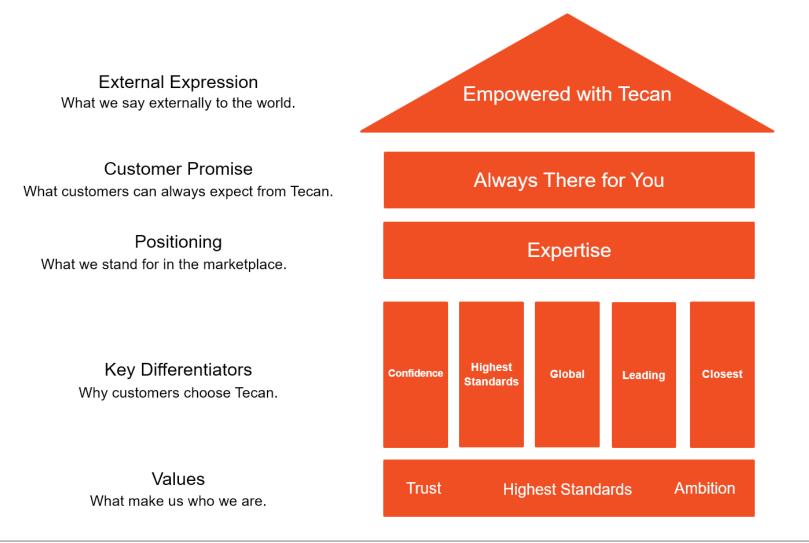


Source: United Nations; https://www.un.org/sustainabledevelopment/news/communications-material/



The Basis for Our Culture: The Tecan Brand House

FOUNDATION IN A GROWING GLOBAL ORGANIZATION



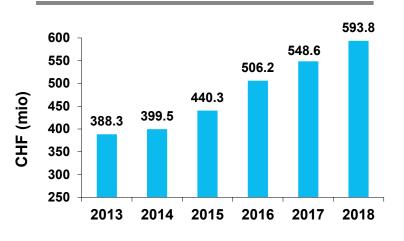
Financial Outlook



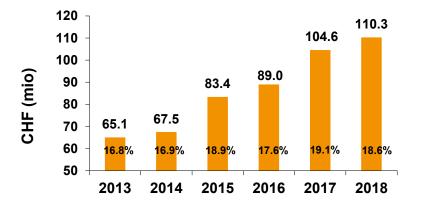
Continuing Successful Financial Performance

ORGANICALLY OUTGROWING THE MARKET AVERAGE PLUS M&A, FURTHER INCREASING PROFITABILITY

SALES DEVELOPMENT



Operating Profit (EBITDA)



DRIVERS FOR FUTURE SALES GROWTH

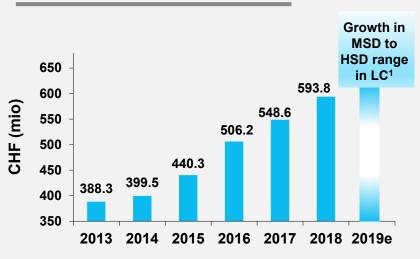
- Focus on key applications: Genomics, Cell Biology and Mass Spectrometry
- Expand solutions offering with dedicated systems, consumables and reagents
- · Increased focus on after-sales market and digital offering
- Continued regional expansion, especially in China
- Further M&A transactions as key element of corporate strategy

DRIVERS FOR FUTURE INCREASE IN PROFITABILTY

- Topline leverage
- Growing share of recurring revenues
- Increased efficiency in R&D (modular approach, design-to-cost)
- Increased operating efficiency (material cost, supply chain management, vertical integration)

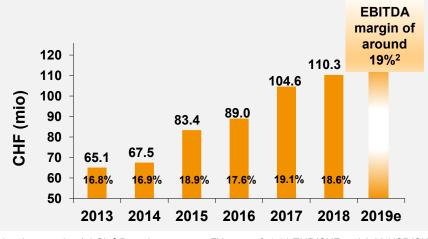


Confirming Financial Outlook for 2019



REPORTED EBITDA AND MARGIN

SALES DEVELOPMENT



SALES OUTLOOK

- Forecast for growth in local currencies in the mid- to high single-digit percentage range
- Recently closed acquisition of supplier expected to add sales in a low- to mid single-digit million Swiss franc amount
- Potential additional acquisitions not taken into account

REPORTED EBITDA MARGIN OUTLOOK

- Integration costs and short term lower margins associated with the NuGEN acquisition will impact reported EBITDA margins (high single-digit million CHF amount expected)
- However, positive recurring impact of IFRS 16 to largely offset costs related to the NuGEN acquisition and CEO transition
- Reported EBITDA margin expected to expand to around 19% of sales

¹ In local currencies (=LC); ² Based on average FX rates of: 1.14 EUR/CHF and 0.99 USD/CHF





Lunch, Demos, Tour

Time	Duration			
13:00-14:00	60 min	Lunch		
		Group 1	Group 2	Group 3
14:00-14:20		DreamPrep	Tour	MagniFlex
14:20-14:40	80 min	SparkCyto	DreamPrep	Tour
14:40-15:00		MagniFlex	SparkCyto	Dream Prep
15:00-15:20		Tour	MagniFlex	SparkCyto
15:30		End of event	End of event	End of event

112



Empowering the

Century of Biology.



Ball allad

Safe Harbor Statement

All statements in this presentation not referring to historical facts are predictions of the future and constitute no guarantee whatsoever of future performances. They are subject to risks and uncertainties including, but not limited to, future global economic conditions, exchange rates, legal regulations, market conditions, activities of competitors and other factors outside the Company's control.

Tecan Group AG is making all efforts to include accurate and up-to-date information into this presentation. Yet, it cannot be ruled out that omissions or errors might have occurred. Therefore, Tecan Group AG cannot make any representations or warranties, expressed or implied, as to the accuracy or completeness of the information provided in this presentation. The Company assumes no obligation to update the information in this presentation. Changes in this presentation can be made any time without notice. All mentioned trademarks are protected by law.

© Tecan Group AG, Tecan Trading AG, Switzerland, all rights reserved.

