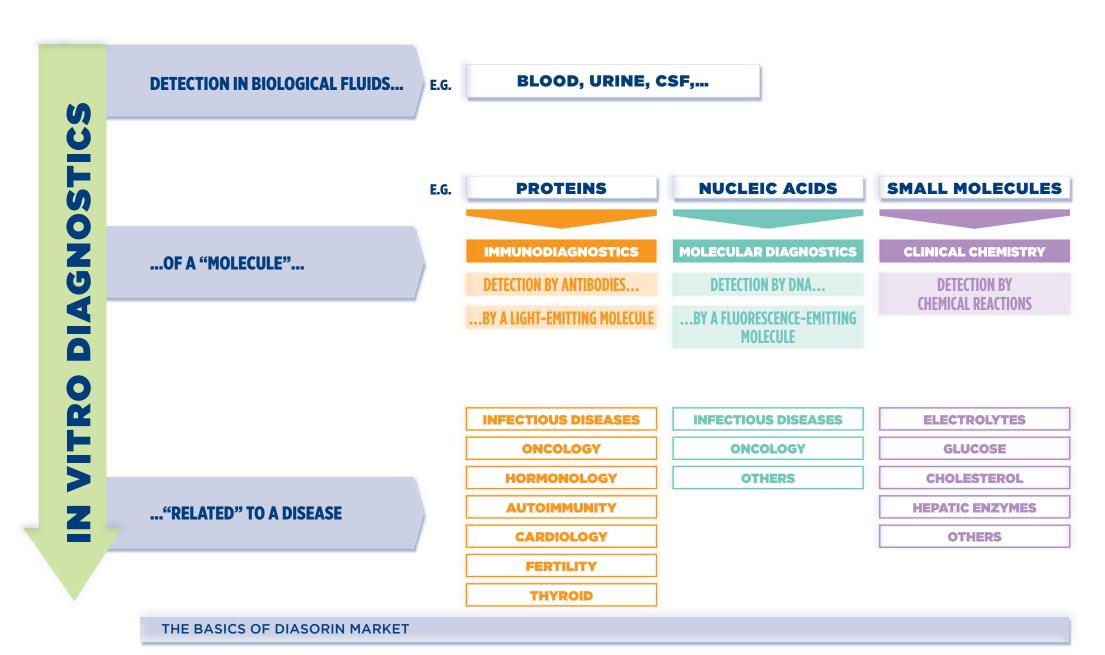
R&D AND INNOVATION

Francesco Colotta Senior Corporate VP and Chief Medical Officer





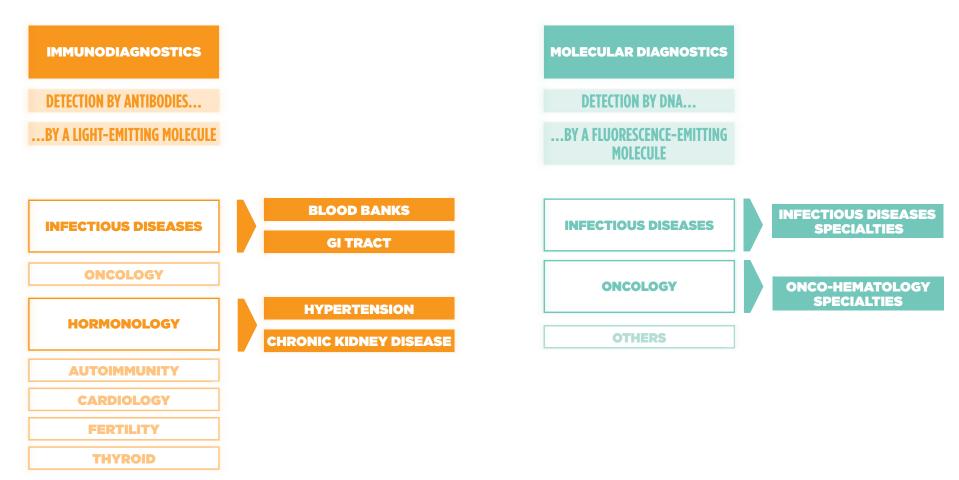
IN VITRO DIAGNOSTICS: BASICS





AREAS TO BE A FRONT RUNNER IN LAB TESTING

- STRENGTHEN OUR LEADERSHIP IN IMMUNOASSAY
- BECOME A NEW PLAYER IN MOLECULAR DIAGNOSTIC



R&D STRATEGY BASED ON 2 LEGS: LEADERSHIP ON IMMUNOASSAY + MOLECULAR DIAGNOSTIC ENTRANCE



BLOOD BANKS DEVELOPMENT PROGRAM

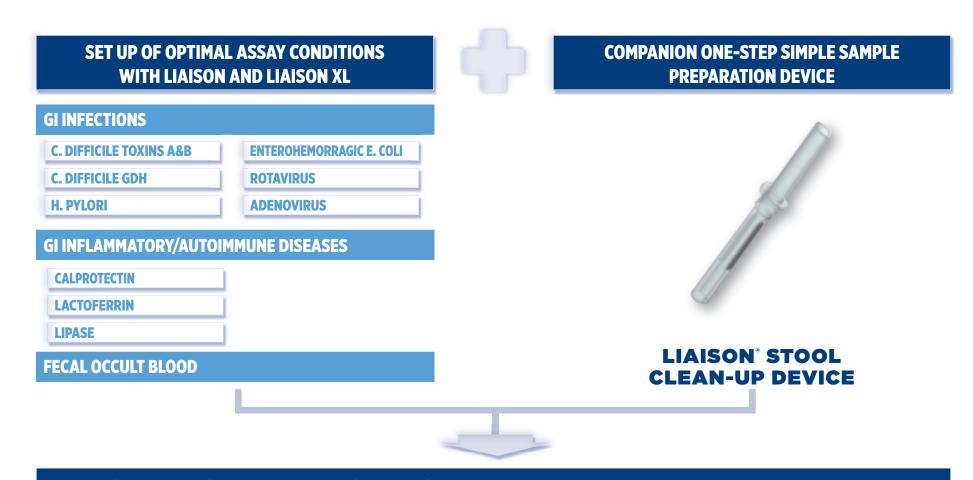
LEVERAGE DIASORIN EXPERIENCE AND REPUTATION IN IDS LEVERAGE DIASORIN FULL MENU AVAILABILITY T. pallidum **HBsAg** HTLV I-II HCV **Chagas** HIV **HIV HT LIAISON XL** In development

BLOOD BANKS

DIASORIN LEVERAGING EXPERIENCE, REPUTATION, FULL MENU AVAILABILITY, LIAISON XL



NEW AUTOMATED SYSTEM IN STOOL TESTING



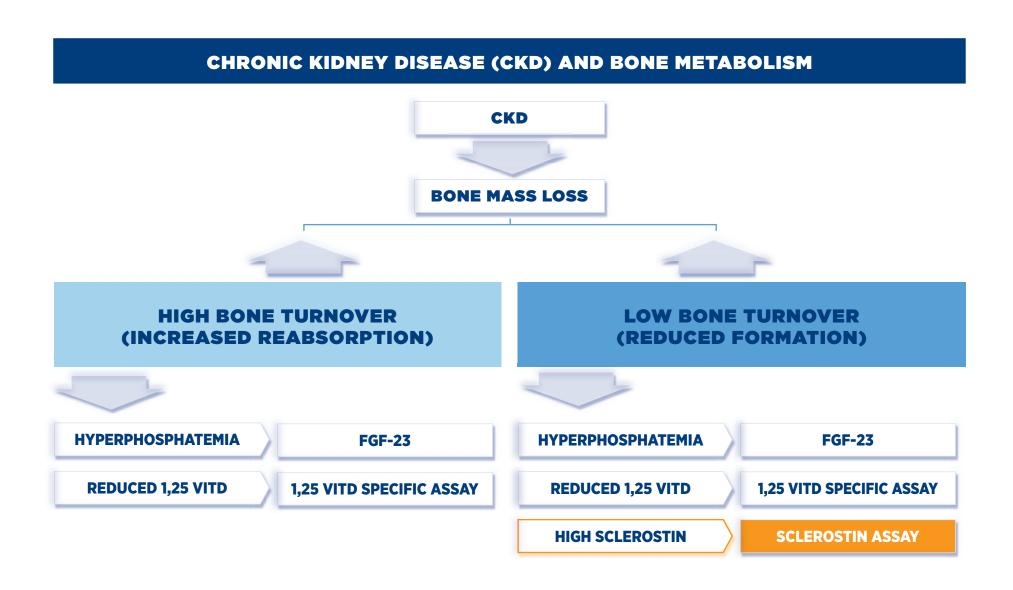
DEVELOP AN INNOVATIVE IMMUNODIAGNOSTIC CHEMILUMINESCENT SYSTEM CHARACTERIZED BY:

- BIOLOGICAL MATRIX CURRENTLY POORLY AUTOMATED
- WIDE APPLICABILITY
- INTEGRABLE WITH MOLECULAR DIAGNOSTICS

A NEW AUTOMATED SYSTEM IN STOOL TESTING; DIASORIN DRIVING THE MARKET



LEVERAGE ON BONE METABOLISM FRANCHISE



ENLARGEMENT OF BONE METABOLISM FRANCHISE



HYPERTENSION: A FULL PANEL ON LIAISON SYSTEMS

DIASORIN MENU: A UNIQUE OFFER FOR THE DETECTION OF THE KEY HYPERTENSION MARKERS ON A FULLY AUTOMATED PLATFORM

DIFFERENT "TYPES" OF HYPERTENSION

RENOVASCULAR HYPERTENSION

RENIN-SECRETING TUMORS

HIGH RENIN ESSENTIAL HYPERTENSION

LOW RENIN ESSENTIAL HYPERTENSION

PHEOCHROMOCYTOMA

PRIMARY ALDOSTERONISM

DRUGS-INDUCED HYPERTENSION

Renin and aldosterone are differentially expressed in each specific hypertension-inducing condition



To discriminate which clinical condition is inducing hypertension in the patient, both **RENIN** and **ALDOSTERONE** must be measured

UNIQUE OFFER OF AUTOMATED DETECTION OF THE TWO KEY MARKERS OF HYPERTENSION ON LIAISON



DIASORIN IN THE MOLECULAR DIAGNOSTICS

DIASORIN STRATEGY TO PLAY THE MOLECULAR DIAGNOSTIC MARKET

THE 3 KEY DECISIONS

AMPLIFICATION TECHNOLOGY

LAMP

AUTOMATED NA AMPLIFICATION AND DETECTION INSTRUMENT

LIAISON IAM

NAT MENU

INFECTIOUS DISEASES
AND ONCOHEMATOLOGY
TESTS



LAMP TO DEVELOP A SPECIALTY MENU IN NAT

DIASORIN LICENSED LAMP (LOOP-MEDIATED ISOTHERMAL AMPLIFICATION) TECHNOLOGY FROM EIKEN CHEMICAL COMPANY LTD IN 2008: THE DIFFERENTIATION FACTOR IN ONCO-HEMATOLOGY FUTURE MENU

DIASORIN LAMP grants:

HIGHER SENSITIVITY

HIGHER SPECIFICITY

SIMPLER REACTION SET-UP

SHORTER TIME-TO-RESULT

CHEAPER PRICE

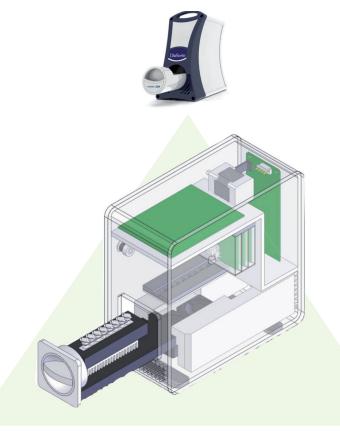
LAMP: THE DIFFERENTIATION FACTOR IN THE DIASORIN MOLECULAR DIAGNOSTIC STRATEGY



LIAISON IAM: A SMALL AUTOMATED ANALYZER

DIASORIN SIGNED AN AGREEMENT WITH PRECISION SYSTEM SCIENCE CO. LTD OF JAPAN (PSS) FOR THE DEVELOPMENT OF A NUCLEIC ACID TEST (NAT) ANALYZER

Liaison Instant Amplification Molecular (IAM)



CLIENTS

DIASORIN MICROBIOLOGY CUSTOMERS
DIASORIN SPECIALITIES SEROLOGY CUSTOMERS
CUSTOMERS ALREADY USING VALIDATED EXTRACTION METHOD

ATURES

- **SMALL**: BENCH TOP, 150(w) X 300(h) X 300(d), <6kg
- FAST: REAL TIME; ONE RUN <60MIN.
- PRECISE: FLUORESCENCE QUANTITATION
- FLEXIBLE:
 - THROUGHPUT: FROM 1 TO 8 REACTIONS/INSTRUMENT; UP TO 48 REACTIONS (WITH 6 INSTRUMENTS)
 - RANDOM ACCESS: BY USING DIFFERENT INSTRUMENTS
 - MULTIPLEX CAPABILITY: 3 FLUORESCENT DYES
 - DIFFERENT ASSAYS CAN BE PERFORMED IN THE SAME RUN
- FULL TRACEABILITY: BAR CODE READER USE FOR SAMPLER AND REAGENTS
- CONNECTIVITY: TO LIS
- CLOSED SYSTEM: FOR ONLY ISOTHERMAL LAMP REACTION
- LOW RISK OF CONTAMINATION: PLASTIC STRIP CAN'T BE RE-OPENED AFTER CLOSURE
- EASY TO USE: INTUITIVE SOFTWARE

DIASORIN DEVELOPING ITS NAT ANALYZER, FOCUSED ON SPECIALTY TESTS



NAT MENU: FOCUS ON SPECIALTIES

LEVERAGE DIASORIN EXPERIENCE AND REPUTATION IN INFECTIOUS DISEASES

INFECTIOUS DISEASES SPECIALTIES

EPSTEIN-BARR VIRUS (EBV)

CYTOMEGALOVIRUS (CMV)

PARVOVIRUS (PARVO)

TOXOPLASMOSIS (TOXO)

BK VIRUS (BKV)

VARICELLA ZOSTER VIRUS (VZV)

PROVIDE THE SPECIALIST WITH A COMPLETE PANEL

ONCO-HEMATOLOGY SPECIALTIES

MYELOPROLIFERATIVE NEOPLASMS (MYELO NEOPL)

ACUTE LYMPHOBLASTIC LEUKEMIAM (ALL)

ACUTE MYELOID LEUKEMIA (AML)

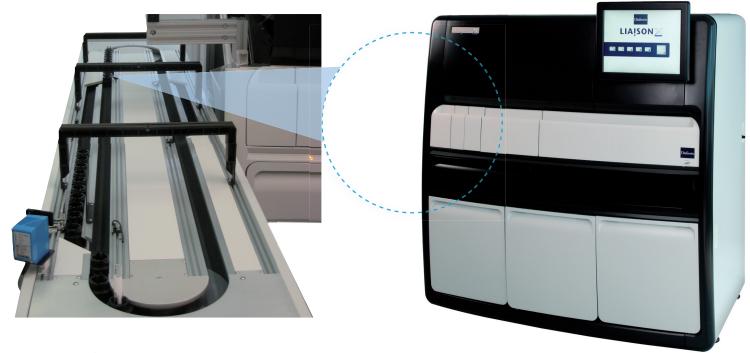
ACUTE PROMYELOCITIC LEUKEMIA (APL)

CHRONIC MYELOID LEUKEMIA (CML)



LAS CONFIGURATION AND LIAISON XL

LAS BRINGS LIAISON XL INTO THE MOST ADVANCED, HIGH THROUGHPUT AND AUTOMATED DIAGNOSTIC LABS, TO FULFILL FLEXIBILITY AND EFFICIENCY OF THE NEW ANALYZER



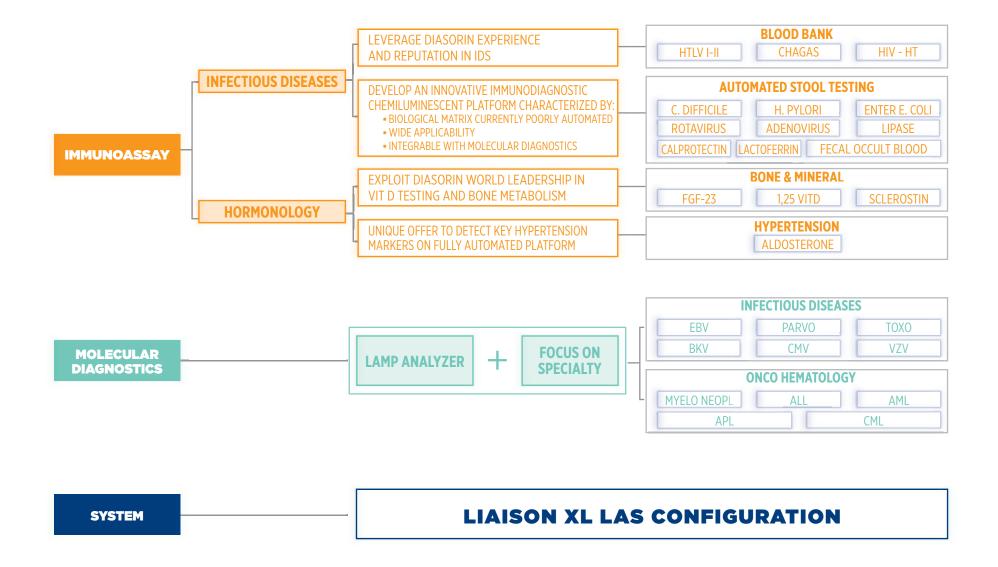
DEVELOPMENT PLAN:

- UPGRADE SW AND HW TO INTEGRATE LIAISON XL INTO AUTOMATED PATIENT SAMPLE PROCESSING: LABORATORY AUTOMATION SYSTEM (LAS)
- PROTOTYPE SW AND HW READY

LIAISON XL READY FOR LAS CONFIGURATION



DIASORIN: R&D PIPELINE 2011 - 2015



AN IMPORTANT R&D PIPELINE TO ADDRESS OPPORTUNITIES AND ENFORCE OUR RECOGNITION AS THE DIAGNOSTIC SPECIALIST