VALUE REPORT 100+6 2012

zambon 1996

For you who have followed us, here we are in the year of the 0 as in the Opportunity which we can seize in all its forms of innovation investing in research and in the growth of scientific progress. A fascinating world which is just as necessary as it is challenging

because

it forces us to continuously improve and to recognise those imperceptible signs from which may spring a new stimulus, an idea for a new project.

After the years when we took figures such as Gandhi, Martin Luther King and Mother Teresa as symbols of strong values, last year it was Andy Warhol who reminded us of the need to communicate all these messages of humility, integration and making quality comprehensibly and in modern words so that we do not lose or waste these values.

Research summarises all these values which together with intuition springing from the imagination and tenacity can bear

marvellous fruit in the service of scientific progress and allows us to improve the Quality of life for people.

Albert Einstein recognized as an icon, synonymous with intelligence and genius summed it all up in 5 sentences:

HUMILITY "I don't have any special talents, I am just passionately curious."

COURAGE "Only those who are crazy enough to think they can change the world can really do it." GENEROSITY "The search for truth is more precious than its possession."

IMAGINATION "Knowledge is limited but imagination embraces the world."

TENACITY "The important thing is to never stop asking questions."

A. Einstein

But we are also convinced that we must not concentrate on only one inventor or discoverer. Especially not in these days when

"...the advancement of research depends on the network of contacts for teamwork which is the fruit of multidisciplinarity."

To overcome the limits of monodisciplinary knowledge we must bring more specialists from different fields of knowledge to converge in the same field of study. Innovation which has traditionally been seen as a complex linear process of technological progress is actually in continuous evolution which is its expression of the complex interactive processes that increasingly see collaboration among various players. This demands a new, systemic approach that takes concrete form in new policies for innovation. Research is a world of con-

trasts, oppositions, men, women, reason, emotion, ingeniousness, discipline and rigour and that is why we propose references in the field of pharmaceutical chemistry who can inspire us and who come from different eras that

have generated innovations essential for medicine and then the researchers and entrepreneurs of today who have made innovations fundamental for increasing knowledge.

We shall let you discover them in reading this Value Report where we explain our choice as a way of thanking them for their contribution. We do not claim to be exhaustive in mentioning only a few of these names but since the list is infinite we had to make choices.

The search for the new lets you dream and imagine something that does not yet exist today and at the same time it lets you explore connections between disciplines and sectors that have never been attempted.

The greatest responsibility incumbent upon "privileged" persons is that of finding a way and a field of activity where they can change the world and make it a better place for the greatest number of people to benefit from these positive evolutions.

We thank you in advance for the "discoveries" you will allow yourselves in reading this Value Report 100+6.

Elena Zambon

We continue along the path we began four years ago and which covers the most important stages of our travelling museum.

THE LETTER Z - HISTORY

the first letter of Zambon, that is, the history of over 106 years of enterprise which we have recounted through the witness of Gandhi, an example for us of humility, the essential premise of curiosity and knowing how to listen in order to create a history;

THE LETTER A - AUTHORS

all the people who in the past and still today contribute through their work and commitment to the growth of this enterprise. The witness of Martin Luther King, symbol of the integration of diversities to be able to stay in constructive harmony is our guide;

THE LETTER M - MAKE

a making of quality that, like our values, finds concrete expression in the little everyday actions. Mother Teresa is the shining example inspiring us in our daily life of how to make quality;

THE LETTER B - BRAND

the heart of our way of being and communicating; we speak about ourselves through the brand, we tell who we are, the things in which we believe and what we do. On this journey we chose to be "inspired" by the works of one of the greatest communicators of our century, Andy Warhol, whose very modern and contemporary style of communication of reality represents for us a way of being ourselves against which we like to measure ourselves:

THE LETTER O - OPPORTUNITY

for Zambon means innovation, opening and multidisciplinarity, collaboration, progress and scientific research. Innovation today needs a new challenge in terms of multidisciplinarity, like a sort of pushing the frontiers that generate values of openness and nearness. For this reason we thought that this year we would take as our guide not just one person but a number of scientists and inventors who come from both the chemical and medical worlds and from other sectors as well and whose inventions, research and strokes of genius have marked the basic stages of human knowledge.

It is just this starting with the difference and the diversity, bringing together experts from varied sectors, promoting the interaction of the sciences, forging bonds, and advancing the most complex interpretations that it is possible to find new areas for development and new methodologies that contribute to scientific progress, enriching and broadening it.

INNOVATION IS CHANGE

Change must be guided even in the comprehension of the process of innovation. This should no longer be perceived as a linear progression proceeding from scientific research to the discovery of something new to then arrive at new products and their diffusion. For enterprises this means changing the business model to conduct targeted research.

Innovation must be "open" and increasingly characterised by collaboration

among the players with a complex network of contacts, networks of relationships, the ability to know how to move in that world and to grasp the external stimuli among universities, research centres and industry.

INNOVATION IS MULTIDISCIPLINARITY

•••••

Multidisciplinarity is one of the challenges with which academic research must come to grips today and thus generate values of openness and approachability. We know that new ideas flourish in adversity, and also in gender.

Using differences as a point of departure can lead to new areas for development, new points of view and interpretation and new methodologies,

and likewise other research possibilities and other data that contribute to the same scientific evidence. To invent, one must confront; to confront one must compare; and to compare there must be several terms for comparison, several "disciplines".

"OUR" WITNESSES FOR INNOVATION

They are presented with their biography (BIO), the DISCOVERY that made them famous and the reason (WHY) they have made their mark in the history of scientific progress.

THE PHARMACEUTICAL THE GROUP Zambon **RESULTS** page 10 page 04 THE CHEMICAL BUSINESS OPPORTUNITY

page 52

THE RESEARCH **VENTURE**





page 40

THE "0"s OF OPPORTUNITY





ZAMBON MUSEUM

page 66



WE TAKE
CARE
OF PEOPLE'S
HEALTH
THROUGH A
SCIENTIFIC AND
TECHNOLOGICAL
APPROACH
SUPPORTED
BY A FLEXIBLE
ORGANISATION

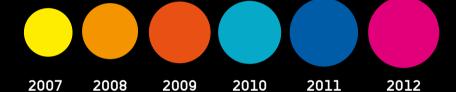
NUMBEI AND RE



CHARACTERISTIC CONSOLIDATED GROUP TURNOVER

TOTAL NET REVENUES (€m)

510 555 542 545 562 550



EBITDA: € 75m

NET OPERATING INCOME: € 43m

EQUITY: € 352m

NET FINANCIAL POSITION: € +4m

COMPARING BUSINESS

THE CHEMICAL BUSINESS

(production of active ingredients)

16%



PHARMACEUTICAL BUSINESS

(production and marketing of drugs)





NUMBERS AND RESULTS



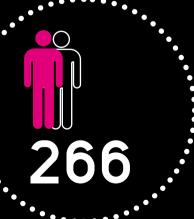
2.605*
OF WHOM
910

180

THE GROUP RESULTS

IN ITALY

innovation + medical science



general & administration

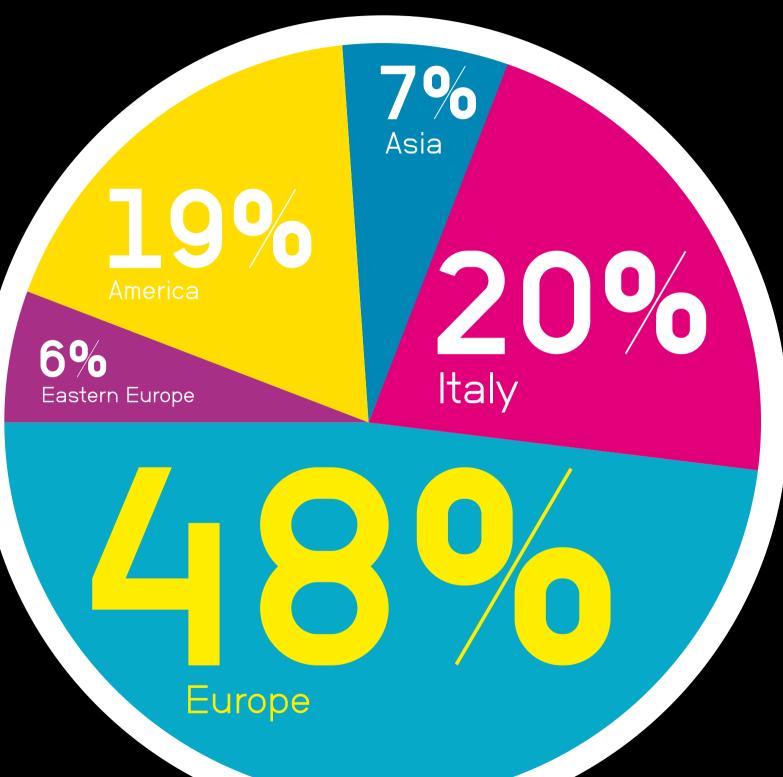
889
technological manufacturing

1.270

effective marketing & sales

REVENUES BY GEOGRAPHIC AREA NUMBERS AND RESULTS







THE WORLD PHARMACEUTICAL SCENARIO

page 12

NUMBERS AND RESULTS

page 14

INNOVATION

Safinamide

A new therapy for the treatment of Parkinson's Disease page 20

MANUFACTURING

page 28

VALORISING THE CORPORATE BRAND

page 32

THE PERSON AT THE CENTRE

page 36

THE WORLD PHARMACEUTICAL MARKET REACHES EUR 661 BILLION IN 2012 WITH A GROWTH OF



THE BIG MULTINATIONALS with turnovers surpassing EUR 10 billion have recorded an overall dip of -1% caused by the loss of their blockbuster patents; intense partnership activity has been fielded to increase the probability of success in development.

MEDIUM-SIZED COMPANIES confirm their competitive ability by growing more than the market, a result of the optimisation of the life cycle of their products and the development of sustainable innovation.

THE LOCAL COMPANIES in emerging countries are growing at a higher rate than their markets thanks to their territorial competences.

THE GENERIC COMPANIES continue to benefit from the intensification of initiatives to increase the use of generic products.

02

WORLD PHARMACEUTICAL SCENARIO





UNITED STATES

Eur 252 billion





JAPAN **Eur 77 billion**





THE EMERGING COUNTRIES

Eur 120 billion





THE EUROPEAN MARKET

Eur 143 billion



The global market continues to be dominated by the **UNITED STATES** which with its **EUR 252 billion**, more than one third of the world pharmaceutical market -38% - closed the year for the first time without growth as the result of the reduction in the average price and the dip in demand.

..........

JAPAN, the second largest market in the world with its EUR 77 billion, is in a slight increase over the previous year.

THE EMERGING COUNTRIES confirmed overall their role of driving the global trend and reached **EUR 120 billion** with a double figure growth rate of **+13%** and conquered 18% of the market share in terms of value headed by China and Brazil.

CHINA, with its **EUR 38 billion**, is again confirmed as the most dynamic with a growth of +24% which has enabled it to conquer third place in the world ranking just after the United States and Japan.

THE EUROPEAN MARKET is worth EUR 143 million. The structural scarcity of resources of the health systems aggravated by the economic crisis has resulted in recording a contraction of -1% due to the many austerity and cost containment measures put in place.

2.054

DIVIDED BY AREA OF COMPETENCE

114 innovation & medical science

513 technological manufacturing

1.257 effective marketing & sales

170 general & administration



NUMBERS AND RESULTS



TOTAL NET REVENUES

€465m

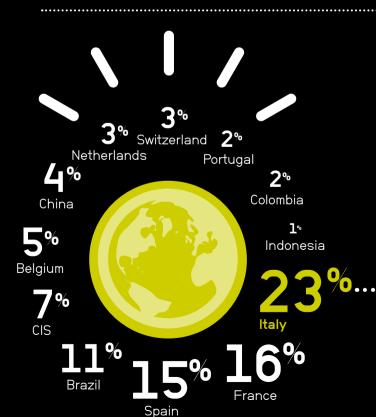
FOREIGN REVENUES

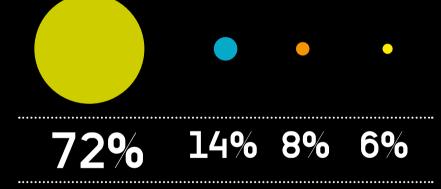
€356m

REVENUES BY GEOGRAPHIC AREA

REVENUES BY GEOGRAPHIC AREA

EUROPE





<code>ITALY</code> is confirmed as the main market for Zambon. Among the non-EU countries we see the continuous development and growth of ${\it RUSSIA}$ and ${\it CHINA}$.

AMERICA

EASTERN

EUROPE

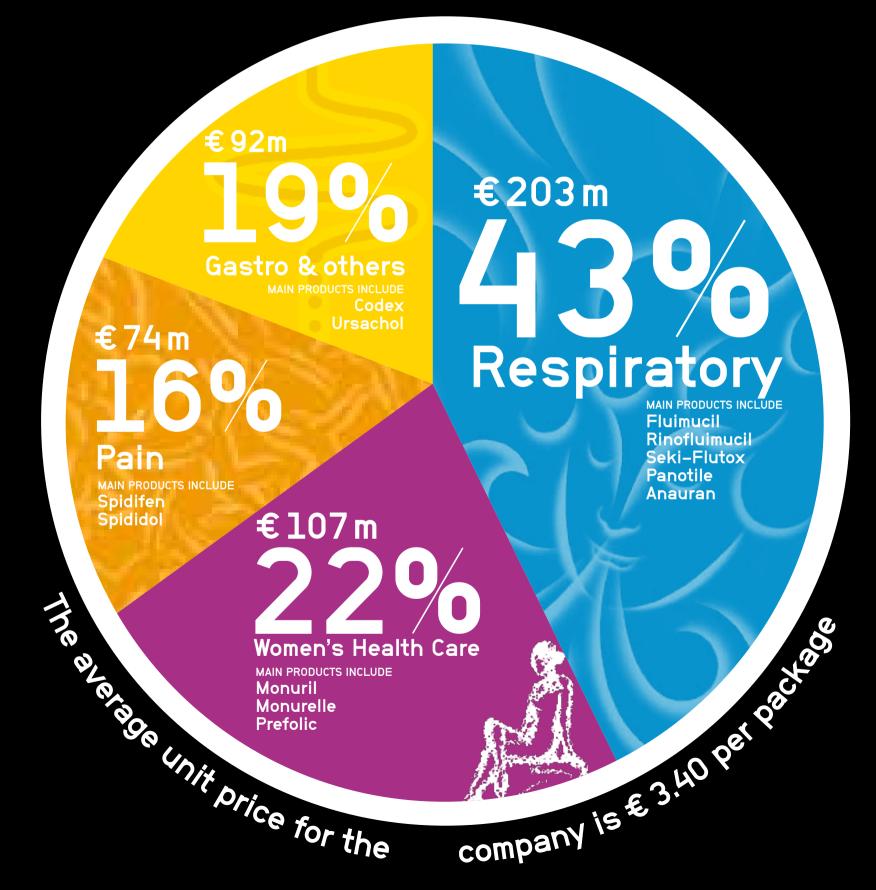
ASIA

OTHER COUNTRIES AFFECTED – licensees, distributors and production for third parties contribute 8%. The new launches and extensions of lines contribute about 2% of the pharma turnover and are led specifically by the acquisitions in Switzerland, – Importal, in France – Silodix Isimig and in Spain – the Lipograsil extension line.

REVENUES
BY THERAPEUTIC AREA

NUMBERS AND RESULTS





THE PHARMACEUTICAL BUSINESS \mid \mathbf{p}



1743 - 1794

ANTOINE-LAURENT LAVOISIER

«NOTHING IS CREATED, NOTHING IS DESTROYED, EVERYTHING IS TRANSFORMED.»

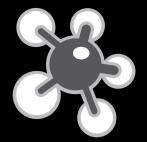
RIO

FRENCH BIOLOGIST, PHILOSOPHER, CHEMIST AND ECONOMIST, FOUNDER OF MODERN CHEMISTRY FOR THE METHODOLOGICAL RIGOUR OF HIS EXPERIMENTATION BASED ON MEASUREMENTS OF QUANTITIES AND FOR THE USE OF THE SCALES IN THE LABORATORY.

ISCOVERY

He enunciated the first version of the law of the conservation of mass, recognised and baptised oxygen in 1778 and hydrogen in 1783. He helped reform chemical nomenclature. He laid the bases for a quantitative approach to the study of chemistry through the rigorous use of the scales as an instrument of scientific research.

Lavoisier's fundamental contributions to chemistry were the result of a conscious effort to make all the experiments fit within one single structure of theories. Thanks to his contribution, modern chemistry was born of the fusion of the completely new theoretical knowledge and the empirical knowledge of the operators and artisans on the characteristics and reactions of substances.



1755 - 1824

JAMES PARKINSON

«THERE APPEARS TO BE SUFFICIENT REASON FOR HOPING THAT SOME REMEDIAL PROCESS MAY ERE LONG BE DISCOVERED, BY WHICH, AT LEAST, THE PROGRESS OF THE DISEASE MAY BE STOPPED.»

BIO

BRITISH PHYSICIAN, PALEONTOLOGIST AND GEO-LOGIST.

His treatise, the Essay on the Shaking Palsy, of 1817 describes for the first time the disease that 40 years later was called "Parkinson" by J.M. Charcot. In his writing he defines the pathology as "Shaking Palsy" and was the first to study its natural history.

λHΝ

J. Parkinson's essay immediately **triggered scientific research** on finding the cure. **Through his studies**, other doctors and neurologists **broadened the knowledge** of that disease, defining its signs and symptoms and describing the **clinical picture** with greater **accuracy**.



МНY

SAFINAMIDE

02

NNOVATION:



A NEW
THERAPY
FOR THE
TREATMENT OF
PARKINSON'S
DISEASE

We enter the world of Parkinson's. A very delicate area where cultural change is under way.

WHAT IS PARKINSON'S DISEASE?

It is a **neurodegenerative** disorder caused by the progressive death of nerve cells (neurons) located in the so-called substantia nigra, a small area in the brain which through the neurotransmitter, dopamine, controls the movements of the whole body. Nowadays the disease, the causes of which are still unknown, occurs in about 3 out of 1000 persons of the general population, about 1% of which is over age 65.

FROM THE TREMBLING DISEASE TO "MOVEMENT AND COGNITION"

In the collective imagination, Parkinson's is seen as the tremor which most of all affects the hands of the patient. The tremor is not, however, the only symptom but is associated with other greater ones such as slowness of movement (bradykinesia), muscular rigidity, postural instability, pain and general motor problems with a loss of balance resulting in frequent falls. In recent years, however, it has emerged that the impairment of cognitive functions in the patient with Parkinson's is an aspect almost as important as the impairment of the motor functions.



SAFINAMIDE REPRESENTS A NEW ALLY IN IMPROVING THE QUALITY OF LIFE OF THE PATIENT

Safinamide is a new molecule developed by Newron, an Italian biotech company, for the treatment of Parkinson's in addition to the dopamine-agonistic drugs in patients in the initial stages or together with levo-dopa in patients in the more advanced stages.

Zambon has completed the development of Safinamide and the dossier is being prepared for submission to EMA in the autumn of 2013.



02

INNOVATION:



From an analysis of questionnaires validated at the international level, Safinamide proved to be significantly effective in improving motor symptoms as well as non-motor symptoms such as cognitive functions, depression and quality of life.

Safinamide has very high tolerability and safety levels.







1822 - 1895

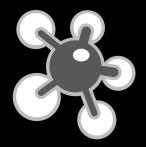
LOUIS PASTEUR

«SCIENCE HAS NO COUNTRY.»

FRENCH CHEMIST, BIOLOGIST AND MICROBIOLO-GIST. THE GREAT DISCOVERIES OF THE FRENCH SCIENTIST CAME ABOUT IN TACKLING THE WORST PROBLEMS OF AGRICULTURE, THE FARMING IN-DUSTRY AND LIVESTOCK FARMING.

He made a great contribution to the knowledge of infectious diseases caused by bacteria, stating that it was possible to defend oneself against diseases because it was enough to defend oneself against the germs causing them. In the course of his life he investigated the causes and prevention systems of the most widely varied pathologies such as septicaemia, cholera, diphtheria, tuberculosis, smallpox and rabies. For the prevention of these diseases he succeeded in developing an attenuated form of the virus responsible which could be used as a vaccine.

The curious mind of Louis Pasteur anticipated the science of prevention of disease: having been able to reverse the viewpoint that germs were the cause of fermentation and of some infections and not the contrary, he opened up the way to research into the pathogenic agents of all infections. These discoveries were considered fundamental for the knowledge of and battle against infectious diseases.



1881 - 1955

ALEXANDER FLEMING

«SOMETIMES YOU FIND SOMETHING YOU WEREN'T LOOKING FOR.»

BRITISH PHYSICIAN, BIOLOGIST AND PHARMACO-LOGIST. HE PUBLISHED MANY ARTICLES ON BAC-TERIOLOGY, IMMUNOLOGY AND CHEMOTHERAPY.

His most notable successes were the discovery of the lysozyme enzyme in 1922 and the isolation of the antibiotic substance, penicillin, from the fungus Penicillium notatum in 1928 for which he received the Nobel Prize for medicine in 1945 together with Florey and Chain.

Fleming's merit lay in recognising and properly interpreting the observations which were the fruit of fortuitous circumstances thus opening the door to the development of modern antibiotic therapy for tackling the most serious, and in some cases, fatal diseases such as tuberculosis, bronchial pneumonia and post-operative infections. The discovery and production of antibiotics is one of the greatest achievements of progress in the XXth century in the field of pharmaceutical research and the treatment of disease.



310

ISCOVER

THE NEW "SATELLITE" MODEL OF R&D GENERATES RESEARCH AND DEVELOPMENT COLLABORATIONS ON INNOVATIVE PRODUCTS IN THE RESPIRATORY AND NEUROLOGICAL

The study of rare diseases and their treatment are our main purpose.

Our interest persists in the areas of women's health care, gastro and pain in the countries with high expertise.

Our projects in the pipeline and in our internal organisation continue to advance and grow.

PROJECTS UNDER WAY

NEW PROJECTS NOW
IN THE PIPELINE

INNOVATION: PROJECTS



ZP-025

an innovative product for the treatment of vaginal dryness even in the presence of vaginal atrophy has achieved regulatory approval and two important clinical trials have begun in support of the launch of the product scheduled for the beginning of 2014.

ZP-003

the development of a new innovative product for the treatment of asthma and COPD based on the innovative Edry platform began clinical development at the end of the year.

IN TOTAL OVER THE FIVE-YEAR PERIOD 2013-2017

7 ACTIVE PROJECTS

IN WHICH INVESTMENTS HAVE ALREADY BEEN MADE IN THE AMOUNT OF

EUR 132 MILLION.

2012 THE YEAR OF COMPLETION OF INVESTMENTS

A 3 year "journey" to incréase production which began in 2010. It involved the sites of both Vicenza and Cadempino.

CADEMPINO

Investments:

€ 17m



35 million pieces produced for Zambon

27 million pieces produced for third parties

PRODUCTION LINES:

- GRANULES IN SACHETS
- EFFERVESCENT TABLETS
- SOPHISTICATED PRODUCTION OF INJECTABLES

PRODUCTION FOR THIRD PARTY CLIENTS **ACCOUNTED FOR 26%**

COLLABORATORS IN PRODUCTION: 194

HAIKOU

14,7 million pieces produced

PRODUCTION LINES:

- GRANULES
- TABLETS



COLLABORATORS IN PRODUCTION: 76

MANUFACTURING

INVESTMENTS COMPLETED

MILLION EURO

VICENZA

Investments:

€ 40m

48 million pieces produced

PRODUCTION LINES:

- LIQUIDS
- SOLIDS
- INJECTABLES

WE PRODUCE 370 MILLION TABLETS/ **CAPSULES. 80% OF PRODUCTION IS** EXPORTED.

COLLABORATORS IN PRODUCTION: 190

We have always paid great attention to the economic management of the plants with cost control initiatives. Central Procurement generates large savings in the industrial investment area.





START UP OF NEW COLLABORATIONS

Industrial Business Development

The optimisation of the free capacity in the plants is part of Zambon's manufacturing strategy. In 2012 numerous collaboration agreements were signed with companies operating in the sector of NAC - and Carbapenem based products with strong specialisation and efficiency in quality production.

CHNOLOGICAL

The freeze-drying project at the **VICENZA** plant was completed.



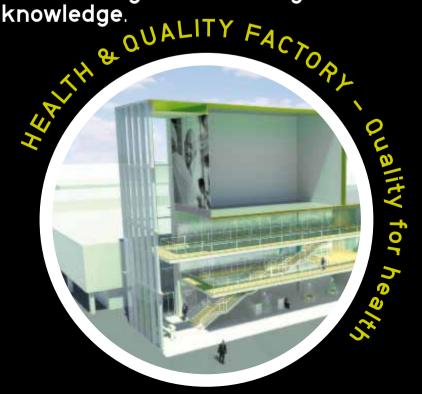
- A WASHING, STERILISING AND LOADING LINE FOR VIALS WITH A CAPACITY OF 18,000 VIALS PER HOUR
- DISTINCTIVE ELEMENT: THE SYSTEM OF LOADING AND UNLOADING VIALS WITH A **CAPACITY OF 18,000 VIALS PER HOUR**
 - A RING-SEALING LINE
 - ANNUAL CAPACITY OF 8.5 MILLION VIALS

02 MANUFACTURING

HEALTH & QUALITY

THE FACTORY AS **NOLOGIES AND**

In 2012 the work on the new building in Vicenza was completed. No longer just plants for production but for **living the factory** as a centre of quality, as a place for the exchange of technologies and knowledge.





VALORISING THE CORPORATE **BRAND:** TRADITION AND SCIENTIFIC REPUTATION A MARK OF

DEMONSTRABLE SERIOUSNESS

ZAMBON'S OFFERING PRODUCTS, SERVICES AND SOLUTIONS **BREATHING**

CHAIN OF INTEGRATED VALUE

- RAW MATERIALS
- MANUFACTURING
- · MARKET

THE CORPORATE







the reproducibility of the clinical results through the processing of raw materials of the highest quality and through the production of active pharmaceutical ingredients managed with the most modern technologies that allow constant dosages throughout the entire process.



We quarantee the quality of our products all along the supply chain. We work each day in a scientific manner with the greatest attention to taking care of patients, helping them to achieve a better quality of life. Thanks to a history of 106 years which goes beyond the past and looks to the future, a history of trust, transparency and knowledge of people.

NOT ONLY "PRODUCTS"

INNOVATION

no longer just the search for new molecules but rather as attention and caring, before, during and after the symptom.

CORPORATE BRAND ZAMBON:

A SYMBOL OF A MODERN AND CONTEMPORARY WAY OF APPROACHING HEALTH

CREATION OF NEW SERVICES FOR PATIENTS TO IMPROVE COMPLIANCE AND MAINTENANCE OF THE THERAPY

"Today medicine
is not limited to solving
health problems and
overcoming disease but
it also cares for the body
without damaging it."

Michele De Lucchi



THE PERSON THE CENTRE

THE STRATEGIES IN THE **PHARMACEUTICAL SECTOR TEND** MORE AND MORE TO SPECIALTIES PLACING THE OF GROWTH AT THE CENTRE OF THE ENTERPRISE





Retention & **Development**

of people with strong scientific and professional skills and marked managerial abilities.



Specific training to improve technicalities and relationships:

training based on a participatory approach by management.



Selection of the best talents

coming from the best operators in the world of science and health.





1867 - 1934

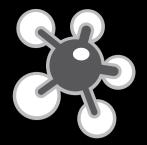
MARIE CURIE

«ONE CANNOT REDUCE ALL SCIENTIFIC PROGRESS TO MACHINES OR COGS...
HUMANITY NEEDS PEOPLE OF ACTION BUT IT ALSO NEEDS DREAMERS FOR WHOM DISINTERESTEDLY PURSUING AN END IS JUST AS IMPERIOUS AS IT IS IMPOSSIBLE FOR THEM TO THINK OF THEIR OWN PROFIT.»

POLISH CHEMIST AND PHYSICIST, NATURALISED RUSSIAN AND THEN FRENCH CITIZEN.

She was awarded two Nobel Prizes, the first for physics in 1903 together with her husband, Pierre Curie, and Antoine Henri Becquerel for their important contribution in the study of radioactive phenomena and the second in 1911 for chemistry with the discovery and study of radium and polonium. The only woman among the four winners of more than one Nobel Prize and, together with Linus Pauling, the only one to have won it in two distinct areas

Marie Curie was not only a **scientist** but a person whose life and career can be said to be closely linked to the **divulgation** of **her discoveries**. Her **passion for research** cost her life because she contracted a serious form of anaemia caused by her overexposure to radiation. With very unsophisticated instruments she was able to introduce **innovative experimental methods** in the study of radioactivity which had opened the door to **new techniques of diagnostic imaging and radio therapy**



1906 - 1993

ALBERT BRUCE SABIN

«LOTS OF PEOPLE WANTED ME TO PATENT THE VACCINE BUT I DIDN'T WANT TO. IT'S MY GIFT TO ALL THE CHILDREN IN THE WORLD.»

POLISH PHYSICIAN AND VIROLOGIST AND NATU-RALISED CITIZEN OF THE UNITED STATES, FA-MOUS FOR DEVELOPING THE MOST WIDELY USED VACCINE AGAINST POLIOMYELITIS.

He developed a technique for attenuating the virus in order to obtain a vaccine that could be taken orally. This vaccine then became the prime weapon in the whole world in the fight against poliomyelitis.

For his characteristics as a scientist and a philanthropist with enormous moral strictness, he was a solitary man, intransigent, tough and almost an aesthete. Sabin never wanted to make a dollar out of the production of his vaccine and refused to patent it so that the price could be contained and so that anyone could afford it.



310

ISCOVERY

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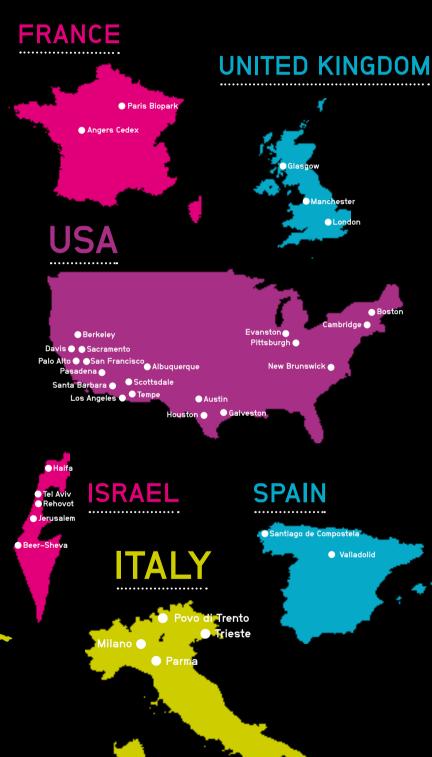
OPEN INNOVATION

Development and consolidation of an international network both in the academic world and among key opinion leaders in the medical device and drug delivery technologies sector.

IDENTIFY AND
SUPPORT THE
VALIDATION OF
DRUG DELIVERY
TECHNOLOGIES AND
MEDICAL DEVICES
FOR THE GENERATION
OF INNOVATIVE
PRODUCTS







Arcavata di Rende Viagrande (CT)



ZCUBE AND OPEN INNOVATION



TECHNOLOGY

	TECHNOLOGY
BIOFARMITALIA, MILAN (Italy)	Medical patch
HEBREW UNIVERSITY OF JERUSALEM (Israel)	Increases nasal mucous absorption
ARIZONA STATE UNIVERSITY, PHOENIX (USA)	Medical device to measure FeNO
UCSF, SAN FRANCISCO	Micro- transporters
CALTECH, PASADENA (USA)	Band-aid with nanoneedles
UNIVERSITY ANGERS, (FRANCE)	Nanoparticles

PORTFOLIO 2012

ROUTE OF AD- MINISTRATION	THERAPY AREA	'09	'10	'11	'12	'13	'14
Transdermal	Local pain	<u>.</u>					
Nasal	Pain therapy, headache			<u>د</u> ئد	~		
Device	Diagnosis and monitoring of asthma					~	
Oral	Increase of biodisponibility for various pathologies					~	
Transdermal	Local and systemic treatment for various pathologies					٠	•
Pulmonary	Local and systemic treatment					,	~



READY FOR COLLABORATIO



PARTNERSHIP WITH PHARMA









Where science oxygenates business

A CAMPUS FOR HEALTH RESEARCH

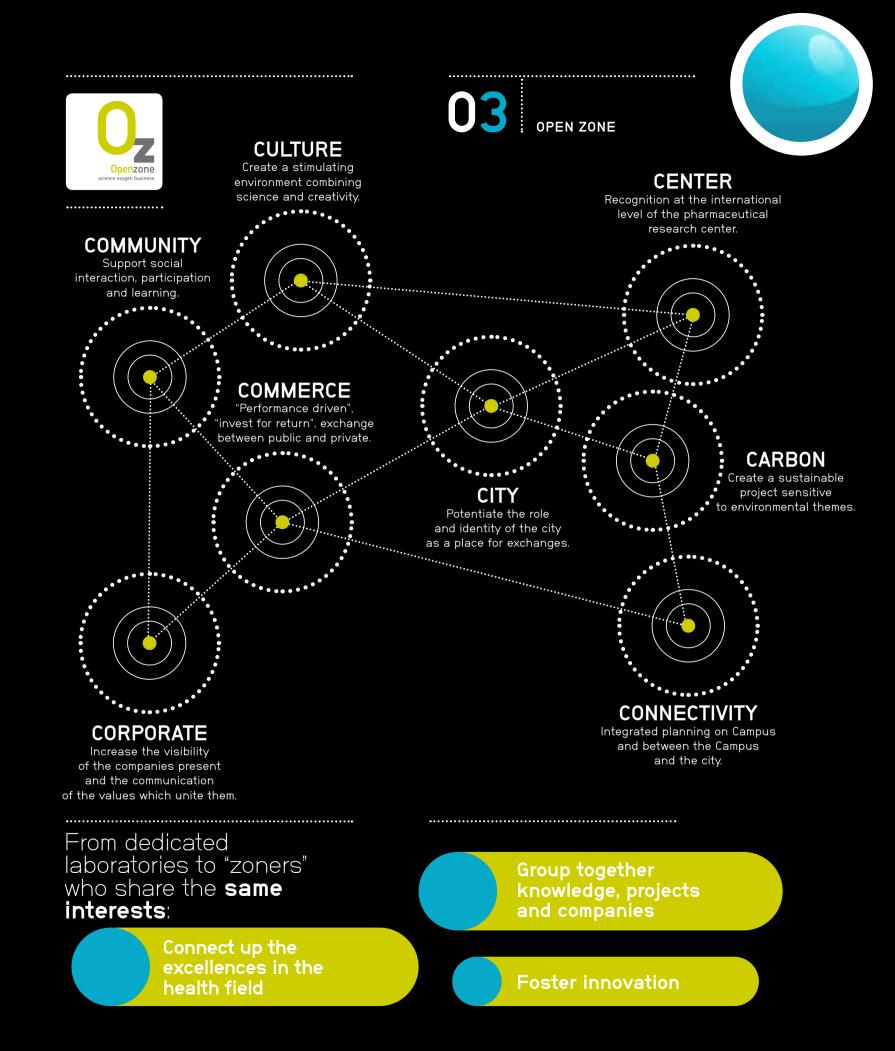
Today innovation is considered a broad phenomenon where complex and interactive processes are expressed. This is where OPEN ZONE fits in, the place where resources are shared among the partners and where meetings between companies and researchers are encouraged.

Open Zone becomes a centre of excellence and becomes a member of the local community thanks to its experimental services and contents of scientific culture.











OPEN ZONE TODAY

Total surface

7,908 Laboratories 14,771 Offices **22,679 TOTAL**

COMING SOON

Total surface

7,000 Laboratories 3,000 Offices 8,500 Residences 18,500 TOTAL

OPEN ZONE TOMORROW

Total surface

14,908 Laboratories 17,771 Offices 8,500 Residences **41,179 TOTAL**







1879 - 1955

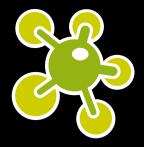
ALBERT EINSTEIN

«OPPORTUNITY RESIDES RIGHT THERE IN THE MIDDLE OF PROBLEMS.»

PHYSICIST AND PHILOSOPHER OF SCIENCE, GER-MAN, NATURALISED SWISS, THEN BECAME A CITIZEN OF THE UNITED STATES. HIS GREATNESS LIES IN HAVING CHANGED THE MODEL OF INTERPRETING THE PHYSICAL WORLD FOREVER.

In 1921 he received the Nobel Prize for physics "for his contribution to theoretical physics and specifically for the discovery of the law of the photoelectric effect". He identified the relationship between mass and energy and his studies anticipated the quantistic nature of light and above all the theory of relativity changed forever our idea of space and time, striking the collective imagination.

In addition to being one of the most famous physicists in the history of science, he was very active in various other realms from philosophy to politics and famed for his overall contribution to culture in general; his name soon became a synonym of intelligence and great genius. Einstein's authoritativeness made itself felt in social, political and cultural environments as well and especially on Gandhi's theme of non-violence. «I believe that among the ideas of all political men of our times Gandhi's ideas were the most illuminated. We should make the effort to act in accordance with his teachings, refusing violence and clashes to promote our cause and not participating in anything that our conscience tells us is wrong.»



1928

JAMES DEWEY WATSON

«THE ONLY PROBLEM IS WHETHER OR NOT WE WANT TO IMPROVE THE QUALITY OF LIFE WITHOUT HURTING THOSE AROUND US.»

310

AMERICAN BIOCHEMIST.

Author of studies on the nucleic acids of viruses, in 1953 he determined the double helix three dimensional model of the DNA molecule and explained its function. For those studies in 1962 he was awarded the Nobel Prize for medicine together with Crick and M.H.F. Wilkins.

The identification of the structural model of DNA triggered a chain of knowledge which saw enormous developments in the base and in applications suggesting the solution to two of the most ancient mysteries in biology – the storage and replication of hereditary information. One of the most important discoveries of the XXth century.

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ISCOVERY

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THE WORLDWIDE PHARMA CHEMISTRY **SCENARIO**



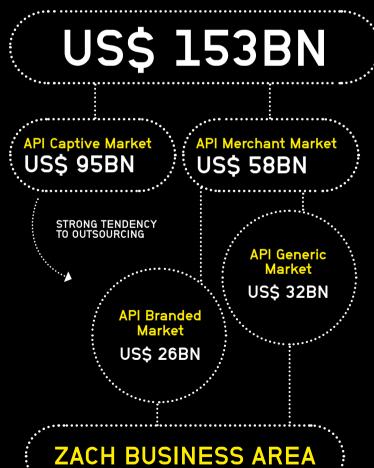
SECTOR: MARKETS 2012

API world market 2012

US\$ 113BN PI Captive Market API Merchant Marke US\$ 69BN **US\$ 44BN** POTENTIAL OUTSOURCING **API Generic** US\$ 22,5BN API Branded Market US\$ 21,5BN

PROSPECTS: MARKETS 2017

API world market 2017



ZACH BUSINESS AREA

THE WORLDWIDE PHARMA CHEMISTRY SCENARIO

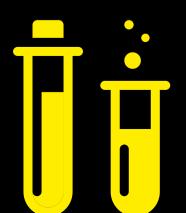
DETERMINING FACTORS IN PHARMA CHEMISTRY

The **USA** are leader in new API molecules: 43.6% but not the main producer.

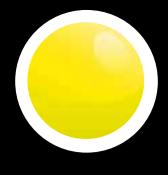
China leads in generic APIs followed by India.

The emerging countries are showing stronger market growth than the USA, Europe and Japan.

Italy is still the main producer of innovative and generic APIs in Western Europe with 58.3% followed by Spain with 21%.



DETERMINING FACTORS
IN PHARMA
CHEMISTRY





THE NEXT DECADE:

Specialisation in the production of APIs: Highly Potent Active Ingredients — HPAI —, Antitumoral, Biosimilars.

The innovation of new processes and manufacturing methods is still fundamental even for medium-sized companies like Zach.

Quality at competitive prices is still the challenge in view of the growth of the emerging markets as potential for Zach.

The pharmaceutical chemical Supply Chain is global: Zach is seeking collaborations with complementary partners in China and India.

NUMBER OF STAFF DIVIDED BY AREA OF SKILLS

EFFECTIVE MARKETING & SALES

& ADMINISTRATION

376 TECHNOLOGICAL MANUFACTURING

478
TOTAL COLLABORATORS*

*OUT OF 478 COLLABORATORS, 132 ARE UNIVERSITY GRADUATES OF WHOM 10 HAVE PHDs

To be a preferred partner in the pharmaceutical industry, offering APIs and highly added value services based on the excellence of our innovation and on our ability to guarantee perfect execution

THE CHEMICAL BUSINESS

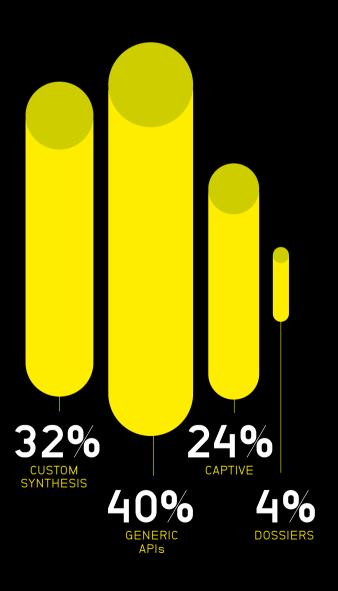
NET REVENUES
FROM SALES
AND SERVICES:

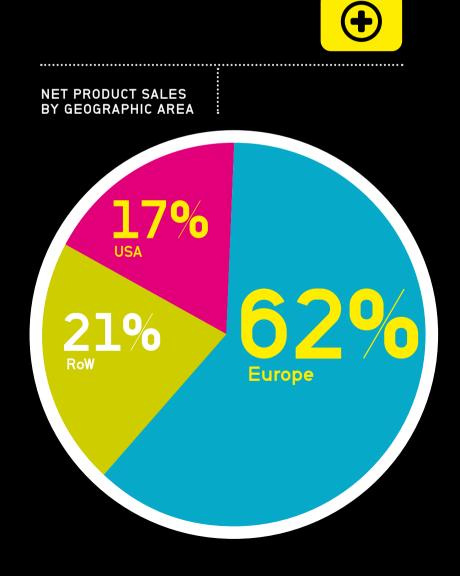
€114m



NET PRODUCT SALES BY BUSINESS









RELIABILITY AT GLOBAL LEVEL

170
CLIENTS
WORLDWIDE

REGULATORY AND COMPLIANCE

	Total
DMFs* Worldwide	301
USA	26
Europe	206
Japan	7
ROW	62
CEPs"	7

04 ,

PLANTS

1.250

MT* OF APIs/ PRODUCTS SOLD

HIGH PERFORMANCE PRODUCTION PLANTS

	Lonigo / Italy	Avrillé / France
TOTAL REACTOR CAPACITY	741 m³	100 m³
REACTION TRAINS	97	31
STAINLESS STEEL	62	15
GLASS LINED	58	16
HASTELLOY REACTORS	3	na
FILTER DRYERS	3	9
TRAY DRYERS	8	1
MICRONISERS	1	1
SPRAY DRYING UNIT		1
API LYOPHILISATION UNIT		1

*DMFs: **CEPs:

CERTIFICATE OF SUITABILITY TO THE MONOGRAPH
OF THE EUROPEAN PHARMACOPOEIA

MT = METRIC TONS

JPPLY CHAIN

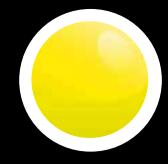
 maintaining a consistent flow of product to the client

 guaranteeing the continuous optimisation of added value in our quality products

 complying with international regulations and our own high internal standards

 providing our clients with excellent service

GLOBAL SUPPLY CHAIN



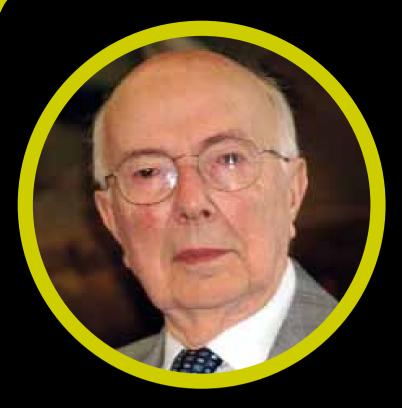
PURCHASE OF **MATERIALS**

GUARANTEEING GLOBAL QUALITY STANDARDS

FDA:
AIFA:
A FROM 1986 WITH NO FORM 483 FEBRUARY 2013 **CUSTOMER AUDITS** ISO 14001 CERT **OHSAS 18001**

ITALIAN HEALTH AUTHORITY NATIONAL SECURITY AGENCY OF MEDICINES AND HEALTH PRODUCTS

ESTABLISHMENT INSPECTION REPORT PHARMACEUTICALS AND MEDICAL DEVICES AGENCY, JAPAN OCCUPATIONAL HEALTH AND SAFETY ASSESSMENT SERIES INTERNATIONAL ORGANIZATION FOR STANDARDIZATION



1914 - 2012

RENATO DULBECCO

«WE WOULD LIKE TO SEE A NEWCOOPERATION BETWEEN SCIENCE
AND SOCIETY TO THE BENEFIT
OF ALL MANKIND.»

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ITALIAN PHYSICIAN AND BIOLOGIST.

He was awarded the Nobel Prize for medicine in 1975 together with David Baltimore and Howard Temin. At odds with the scientific ideas prevailing in his day, he was the first to conceive of the tumour as a disease triggered by a defect in the Dna. Dulbecco participated directly in the Human Genome Project, the international initiative that made it possible to completely map man's Dna. He was president of the Advisory Board of Zcube from 2004 to 2006.

An extraordinary innovator in the field of genetics, and a pioneer in research on the genetics of cancer. Not only was he endowed with a brilliant mind but he was also a careful observer of reality with a clear idea of the importance of the relations between science and civil society.



1909 - 2012

RITA LEVI MONTALCINI

«MORE FASCINATING THAN THE AMAZONIAN RAIN FOREST: THE CENTRAL NERVOUS SYSTEM.»

310

TALIAN NEUROLOGIST

She identified the growth factor in the nerve fibre of NGF, the discovery for which she was awarded the Nobel Prize for medicine in 1986. The applications of her discovery of the growth factor in nerve cells are many and there is still much ongoing research on therapies for diseases such as ALS or Alzheimer's and on identifying numerous other factors responsible for the growth of cell tissue including some that foster the growth of tumours

WHY

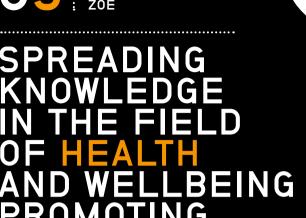
Her contribution to the **progress of neurological science** has always been a warning to continue investing **energy and funds in scientific research**. Rita Levi Montalcini embodies the symbol of an **authentic civil passion** for the many battles to promote the dignity of women, human rights, justice and peace.



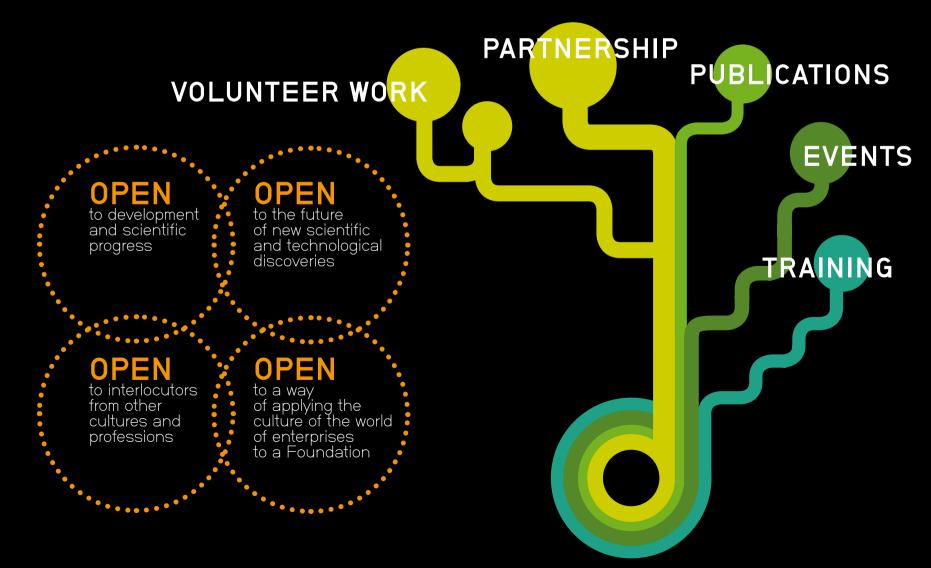
λHΜ



THE HEART OF ZOÉ,



MUNICATION







EVENTS 2012

Cycles of encounters intitled "Zoé Reflects with..." Tiziano Treu, Ilaria Capua, Maurizio Sacconi, Antonella Gatti Bardelli

ZOÉ'S THIRD PARTICIPATION IN THE **BIBLICAL FESTIVAL** TO GIVE A VOICE TO HEALTH BY SETTING UP A DIALOGUE BETWEEN SCIENCE AND FAITH ON SOCIAL ASPECTS THAT INVOLVE US IN EVERYDAY I IFE.

Seminars, conventions, shows, dialogues, forums and training activities in hospitals and schools.

We promote a culture of health based on learning and on the sharing of knowledge.



ZOÉ INITIATIVES



THE REVIEW VIVERE SANI VIVERE BENE: FROM THE HEALTH OF THE INDIVIDUAL TO THE HEALTH OF SOCIETY

51 NATIONAL AND INTERNATIONAL SPEAKERS

APPOINTMENTS DEDICATED TO SCIENCE, SOCIAL WELLBEING, ETHICS, LEGALITY, CIVIL COMMITMENT, WORK, MEDICINE, ART, SPORTS, MUSIC, THEATRE, CINEMA AND PHILOSOPHY

16 ORGANISING PARTNERS

11 DAYS OF CONVENTIONS, SHOWS, CONCERTS AND ENCOUNTERS

MORE THAN 14,000 PARTICIPANTS AND VISITORS











05 BENVIVE





TREE OF HEALTH HEALTHY BREAKFAST TREE OF SOLIDARITY A SCHOOL FOR THE CHILDREN IN TOGO Each atom creates a molecule just as each initiative enlivens our Benvivere. It is only when we combine these atoms that we can really complete this molecule.

Values, symbols, colours and inspiration which all create a veritable philosophy, a language able to promote positive relationships between colleagues and facilitate business choices.

TREE OF IDEAS MINIPARLIAMENT

A culture that creates continuous synergies between enterprise and work like the members who belong to a community where they live the building of their own future in a participatory spirit.

A way of being and understanding work that characterises us and enlivens our community which becomes a place for personal as well as professional growth.

TREE OF TALENTS ARTISTS' INSTALLATION

BIRTHDAY

CELEBRATION

A chance to rediscover the importance of collaborating and of feeling actively part of the enterpris.

ZAMBON MUSEUM

NOT ONLY
RECOLLECTIONS
BUT A PLACE
THAT LIVES
FOR CULTURAL
EXCHANGES
AND DIFFERENT
CONTRIBUTIONS

The Zambon Museum

is part of a national and international network of enterprises, the expression of the made in Italy creativity with the mission of fostering the culture of enterprise and gains its sustenance from the comparing and sharing of new experiences. The Museum opens its doors with ever greater frequency to projects, persons and initiatives.





HE ZAMBON



TI RACCONTO UN'IMPRESA

I'LL TELL YOU ABOUT AN ENTERPRISE

A story told in 27 snapshots of young students who tell the story and talk about the culture and the people at Zambon.



"THE TOWERS OF AIR"
BY MICHELE DE LUCCHI





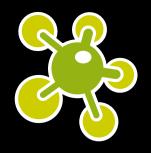
ILARIA CAPUA

«DIVERSITY IS VERY IMPORTANT IN THE WORLD OF SCIENCE, THE MEETING OF PEOPLE WITH DIFFERENT IDEAS AND PERSONALITIES IS FUNDAMENTAL FOR SUCCESS IN ADVANCING HIGH LEVEL COMPETITIVE RESEARCH.»

DOCTOR OF VETERINARY MEDICINE BY TRAINING, VIROLOGIST BY PROFESSION AND BY PASSION SHE DIRECTS THE DEPARTMENT OF COMPARATIVE BIOMEDICAL SCIENCES AT THE ISTITUTO ZOOPROFILATTICO SPERIMENTALE DELLE VENEZIE AND HAS BECOME ONE OF THE BEST IN ITALIAN RESEARCH IN THE WORLD.

Her contribution was a determining factor in learning about the flu viruses through the research activity conducted by her group and through her decision to apply the open access philosophy to the fight against emerging diseases going counter to the practices current at the time. In 2006 she filed the genetic sequence of the first Nigerian H5N1 in an open access database rather than in a limited access archive and sparked an international debate on the transparency of data which was the beginning of a more transparent way of management now recommended by such international organisations as the OIE, FAO and WHO. This was the reason why Seed voted her as a "revolutionary mind" in 2008 and she became one of the top 50 scientists of Scientific American

Her work group is composed of more than 70 researchers and is actively engaged in numerous national and international projects with collaboration agreements with Italian and foreign institutions, organisations, and universities. Her inclination to challenge consolidated attitudes has led her to bring about significant changes in the image and practice of the profession and has influenced the lives and careers of others.



CRISTINA ALBERINI

«ILIKE TO THINK THAT OUR STUDY IS NOT SO MUCH TO BOOST THE FACULTIES OF NORMAL PEOPLE AS TO OBTAIN INFORMATION THAT WILL HELP US TO DEVELOP NEW CURES FOR PATIENTS AFFECTED BY ALZHEIMER'S AND ALL THAT GALAXY OF DISEASES THAT COMPROMISE OUR ABILITY TO REMEMBER.»

ITALIAN NEUROSCIENTIST WORKING AT THE NEW YORK UNIVERSITY. SINCE THE EARLY 90'S SHE HAS DEDICATED HERSELF TO THE STUDY OF MEMORY WITH SPECIAL ATTENTION TO MEMO-RIES AND TO HOW THEY ARE FORMED AND FIXED IN OUR MINDS AND HOW THEY ARE RE-PRO-CESSED WHEN THEY ARE RETRIEVED.

To her we owe the recent discovery published in Nature in 2011 according to which the insulin-like growth factor IGF-II could be the key to boosting memory under normal conditions and prevent cognitive deficits under pathological conditions. The levels of this hormone increase in the hippocampus, an important region of the brain for the formation of long-term memory after learning. The research group under her leadership demonstrated that the injection of the hormone fixed the memory of actions learned a few weeks earlier more strongly.

Her research in addition to contributing to progress in the field of neuroscience also opens up important prospects for its effects on models of diseases of the memory such as Alzheimer's, strokes and aging.



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SCOVERY

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OPEN CIRCLE

CULTURE OF ENTERPRISE WEEK

For the third year Zambon opens its doors to the "Culture of Change".

Michele De Lucchi

tells how architecture and design can help an enterprise in planning new spaces where people can get together, participate, contribute, collaborate and exchange. A precious testimonial of what it means to Zambon to take care of people's health.

L'IMPRESA DI L'ARTE ALLA S A L U T E 05

DEN CIRCLE

"When architecture, freehand drawing, photography and sculpture line up with science, the industry rediscovers its mission and trusts the artistic talent to communicate that it works for the good of the person."

Michele De Lucchi





- Pietro Mennea
- Israel's cultural roots
- Vittorio Dan Segre
- The values of rugby
- The Cystic Fibrosis Research Foundation
- Salvatore Vella
- **Annalisa Minetti**

Cristina Alberini

One of the prominent Italian world figures

Mauro Ferrari

The great Italian researcher in the US

Rogerio Gaspar

Nanopharmaceuticals & Drug Delivery Systems

AXXAM

First Italian Drug Discovery Summit

ZCube

Legal aspects of licensing and business development

... other enterprises



Comparing ourselves with our associated companies and other communities of enterprise

TO ENCOURAGE

RESEARCH FOR PERSONAL



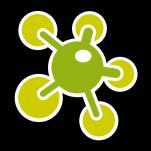
FEDERICO FAGGIN

«TO PRODUCE INNOVATION, THE ENVIRONMENT IS JUST AS IMPORTANT AS THE PEOPLE. IT IS NOT ENOUGH TO BE GOOD BUT YOU NEED THE RIGHT STIMULI, THE ECONOMIC POSSIBILITIES AND THE COURAGE TO TAKE RISKS.»

ITALIAN PHYSICIST, INVENTOR AND ENTREPRE-NEUR FROM VICENZA, NATURALISED AMERICAN.

He is the inventor of the MOS silicon gate process (Fairchild Semiconductor, 1968) used in almost all integrated circuits in the world, co-inventor and designer of the first microprocessor, the Intel 4004, and designer of all the first Intel microprocessors and also founder and CEO of ZiLOG where he designed the Z80, the microprocessor that is still being produced in high volumes 37 years after its introduction.

The Intel 4004 is considered the first real microprocessor, the "miracle chip" because it **opened** the way to wide scale diffusion of informatics as we know it today. He also co-invented the touchpad with his group in the company, Synaptics, which he founded in 1986. This touchpad can be found in all notebooks and netbooks today and it has changed the way of interacting with smartphones.



LARRY PAGE SERGEJ BRIN

«WE TRY RATHER HARD TO MAKE OUR PRODUCTS AVAILABLE TO AS MANY PEOPLE AS WE CAN. THIS IS OUR PHILOSOPHY.»

FOUNDERS OF GOOGLE, THE INTERNET RE-SEARCH ENGINE.

In 1997 Mr Page and Mr Brin created a fast and simple research motor that would allow all internet users to find what they were "really" looking for. The know-how is free and available at the click of a mouse. Google increasingly resembles a universal encyclopaedia.

Page & Brin are an example of Innovation because they have contributed to making know-ledge democratic. Thanks to network theory, to its simplicity of use, to search speed and to minimalist design, Google has changed the way of web searching.

WHY



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DISCOVER

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BRAND ROAD SHOW

ATOMS OF THE SAME MOLECULE

A journey around the Brand for all the people at Zambon. An occasion to reflect on the meaning of the Brand not only as a trademark but as a way of expressing the things in which we believe and says who we are and what really counts for us.



The time has come to communicate all this. that is, our contribution, commitment, skills and all the effort we put into continuing a conversation between the outside world and us.

ALL ABOARD!

We have collected more than 2000 photographs from collaborators in all our associated companies around the world. A part of our Zambon Brand lives in each image that each collaborator has chosen as the most representative. NOW THE MOSAIC IS **COMPLETE!**



SOUTH

















ITALY

Zambon Company SpA
Zambon SpA (Pharmaceutical)
Zach System SpA (Zambon Chemicals)
ZCube S.r.l.
Zambon Immobiliare S.r.l.
Zambon Group SpA

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Chemical Plant Via Dovaro 36045 Almisano di Lonigo (Vicenza) Telephone +39 0444 433111 Fax +39 0444 831192

Zambon SpA (Pharmaceutical)

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Zoé Foundation (Zambon Open Education)

•••••

Corso Palladio, 36 36100 Vicenza Telephone +39 0444 325064

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••••••

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Pharmaceutical Plant

Haikou National Hi-tech Industrial Development Zone Haikou, 570314 Hainan Telephone +86 898 6863 1288 Fax + 86 898 6863 6121

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P.T. Zambon Indonesia

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Graphismes: Rumore Bianco Photos © Corbis, Marka

The Zambon Company S.p.A. states its intention to settle any outstanding matters relating to the images with the rights holders it was not able to contact.

The Consolidated Financial Statements of the Group at 12.31.2012 are posted on our website at www.zambongroup.com