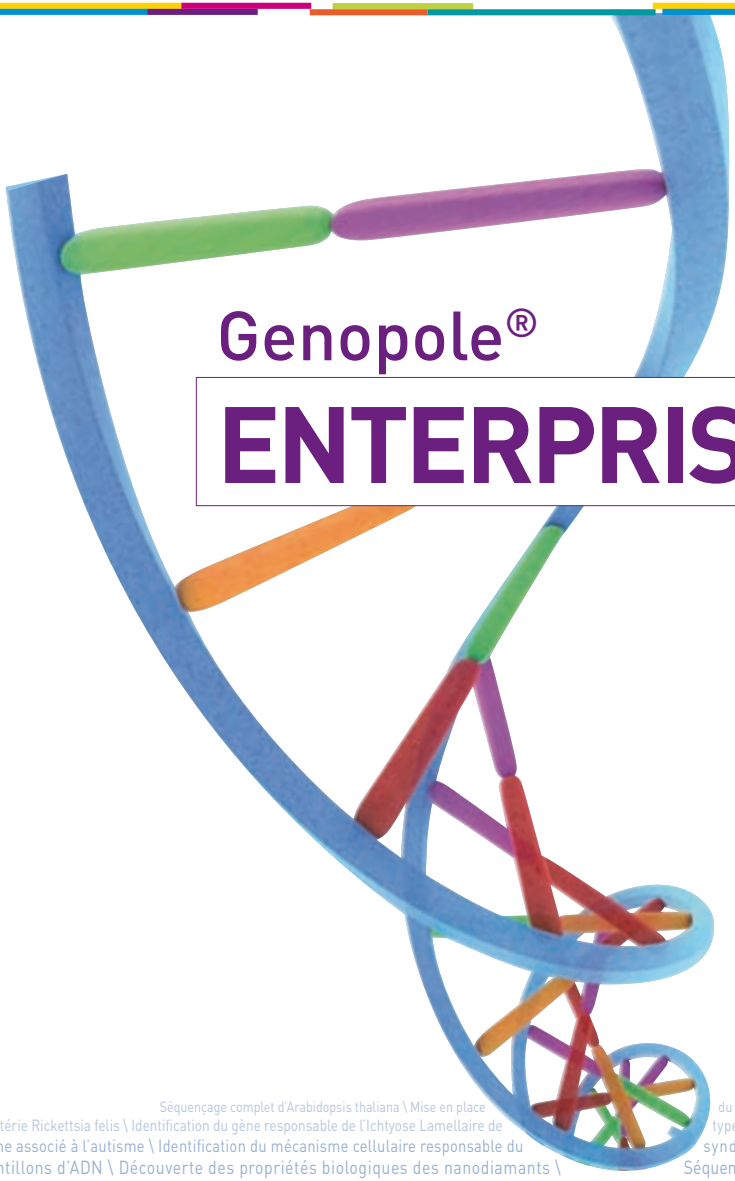
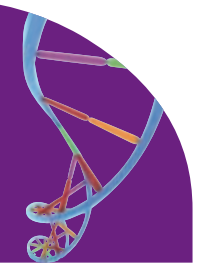


Genopole®

ENTERPRISES

Enterprises

ENTERPRISES



BIOMEDECINE HEALTHCARE

BIO-INFORMATICS INFORMATICS

AGRO-INDUSTRY

MEDICAL INSTRUMENTATION

CONTACT

Genopole Enterprises
ge@genopole.fr

AbAg

CEO Marc BOURLIOUX
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Date of founding 28th Nov. 2001

BUSINESS SECTOR

- *In vitro* diagnostics

FIELD OF ACTIVITY

- Infectious disease

DESCRIPTION

AbAg is developing the concept of "syndrome-based, multiparameter serological profiling" for infectious disease diagnosis. AbAg is creating its own portfolio of innovative, recombinant antigens and has established a collaboration with the Biochip Laboratory at CEA Grenoble (the French Atomic Energy Commission) in order to develop the "Capucine" array as the company's innovative, multiplex format.

Acriter

Managing partners Catherine BURNOUF Maria CHOVET Frédéric DOC
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E-mail info@acriter-consulting.com **Web site** www.acriter-consulting.com
Date of founding 21st June 2004

BUSINESS SECTOR

- **Consulting services, continuing education courses**

FIELD OF ACTIVITY

- **Support for corporate organizational development**
- **Support for research-driven project management**

DESCRIPTION

- Consulting activity

- Initiation and development of scientific collaborations
- New business start-up project development
- Planning and piloting research-driven project activities which aim at reducing the late-stage attrition rate (mainly focused on chemistry, pharmacology, formulation, pharmacokinetics and metabolism)
- Continuous process improvement initiatives for supporting research activity performance and productivity
- Project management implementation:
  - Our proprietary PM ProDit™ software emphasizes process weaknesses & strengths and reveals opportunities for improvement
  - Project portfolio management
  - Project stakeholder support and coaching (project teams, project leaders, steering committees)
- Knowledge management
  - Development of corporate information sharing systems
  - Support for designing in-house software solutions.

- Training sessions (can be adapted according to common constraints)

- The drug discovery process: research-stage actions for tackling late attrition.
- Research-driven project management.
- Research-dedicated information systems: IT tool design and project management development.

AISA therapeutics

Director Patrizia D'ALESSIO

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Date of founding 19th Oct. 2005

BUSINESS SECTOR

- **Biomedicine/human and animal healthcare (therapeutic research)**

FIELD OF ACTIVITY

- ***AISA therapeutics* aims at developing new anti-inflammatory molecules based on the inhibition of endothelial adhesion. Potential applications include chronic inflammatory and auto-immune diseases**

DESCRIPTION

AISA therapeutics was incorporated with the objective of developing anti-inflammatory molecules that target the vascular endothelium. About ten molecules have been identified using a novel *in vitro* cell model and four of these have already been claimed in a patent. In 2006, the company's share capital was increased and two business angels became shareholders. In 2007, two new patents were claimed following studies on one AISA molecule (5203-L) and its major metabolite, which have been shown to treat stress and promote tissue repair in the skin and the colon when given orally or administered topically. AISA's business model is now focusing on the development and commercialization (in 2008) of a nutraceutical anti-stress product and a cosmetic product for maintaining the skin's youthful properties. Two out-licensing contracts and an exclusive manufacturing licence are currently being discussed.

Arterial Remodeling Technologies

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E-mail\ patrick.sabaria@art-stent.com Web site\ www.art-stent.com
Date of founding\ 21st Nov. 2001

BUSINESS SECTOR

- Interventional cardiology

FIELD OF ACTIVITY

- **Arterial Remodeling Technologies ("ART") is developing bioresorbable peripheral and coronary artery stents that promote the natural post-angioplasty remodeling of an injured artery.**

DESCRIPTION

ART's proprietary technology is being used in the development of bioresorbable stents that dismantle themselves *in vivo* over an optimized timeframe. The ART approach seeks to achieve temporary stenting of a traumatized angioplasty Web site in order to (i) prevent acute and chronic recoil (ii) allow the arterial wall to remodel through the use of a self-dismantling stent and (iii) help normal physiological healing processes to proceed. ART's next-generation stents are made of non-aggressive material. They are only temporarily present and facilitate natural arterial wound healing and remodeling. A key element of ART's technology is that it enables the development of a resorbable stent that can be used according to current stenting practices, which is crucial for market penetration.

Assistmov

Project leader Mourad BOUZIT

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Date of founding June 2008

BUSINESS SECTOR

- Mecatronics, virtual reality, physical therapy, handicap

FIELD OF ACTIVITY

- Design and production of robotic and virtual reality solutions for physical therapy & rehabilitation and for assisting elderly and handicapped people

DESCRIPTION

ASSISTMOV is a start-up whose mission is to design, produce and market mecatronic solutions for physical therapy and rehabilitation. Its innovative solutions are based on a new technology that has emerged from the fusion of robotics & virtual reality with physical therapy. The first solution developed by ASSISTMOV meets three significant therapeutic needs simultaneously: lower limb rehabilitation, the diagnosis & rehabilitation of balance deficiencies and gait rehabilitation.

The solution is particularity suitable for rehabilitation of subjects with neuromotor deficits such as stroke victims, Parkinson's disease sufferers and patients with spin cord injuries.

ATRAGENE Research Informatics

CEO\ Alain MALPERTUY
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E-mail\ contact@atragene.com Web site\ www.atragene.com
Date of founding\ 20th Nov. 2001

BUSINESS SECTOR

- Research Informatics, Bioinformatics, Cheminformatics

FIELD OF ACTIVITY

- ATRAGENE is a provider of innovative, cost-effective IT solutions for the life sciences industry in the key areas of information and software integration and management

DESCRIPTION

- Over the last few years, research informatics has emerged as an essential technology for enhancing R&D productivity in biotech and pharmaceutical industries. From drug candidate selection to drug target validation, research teams require state-of-the-art informatics architecture to capture, retrieve, visualize and analyze data. ATRAGENE Research Informatics is a service-oriented company and our offering includes consulting assignments to assist research organizations in the definition, development and deployment of IT systems and/or architectures. We also provide ATRAGENE resources for short- or long-term contracts.

ATRAGENE's areas of expertise:

- Design and implementation of systems for integrating, visualizing and mining biological and chemical information in order to explore and discover hidden or unexpected relationships.
- Implementation of professional solutions (ELN, LIMS…).

The benefits of ATRAGENE's high-value solutions include:

- The ability to access and share heterogeneous and dispersed data.
- Integrated and enhanced access to prediction and analysis tools.
- The automation of analysis workflows and processes.
- Information capture and storage.

Bio Support

BIO SUPPORT

President Gregory LEMKINE **Directrice** Noëlle COUGET

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E-mail noelle.couget@wanadoo.fr

Date of founding 23rd Nov. 2005

BUSINESS SECTOR

- Human resource sharing

FIELD OF ACTIVITY

- An employers group formed by life science start-ups (biologics, R&D services, instrumentation, biomarkers, bioinformatics, consultancy, etc.)

DESCRIPTION

- The BIO SUPPORT not-for-profit association is an employers group founded by a number of Genopole® biotech start-ups.
Depending on the needs, BIO SUPPORT hires the corresponding human resources and makes them available to member companies via appropriate sharing procedures.

The BIO SUPPORT advantages:

1. Share life science expertise and professional skills by leveraging other company's experiences.

2. Benefit from flexible resources (either regular or occasional deployment) for maximum efficacy and profitability.

3. Reduce your salary costs and optimize your time by accessing an immediately operational professional who will integrate smoothly into your business.

4. Increase your responsiveness by leveraging synergies with other BIO SUPPORT companies and joining a high-performance network of partners, suppliers and customers.

How we operate:

A deposit, an annual subscription and monthly invoicing at cost price.

Biofords

Manager & Scientific Director\ Marc MASSON
In charge of Sales & Marketing \ Salima BERKANI Marcos AMATO
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E-mail\ info@biofords.com Web site\ www.biofords.com www.agdia.com
Date of founding\ 18th Nov. 1998

BUSINESS SECTOR

- **Development & sales of diagnostic kits for agriculture & the environment. Biofords' kits are useful from upstream to downstream in the agricultural and water chains, from production to consumption**

FIELD OF ACTIVITY

- **Diagnostic kits for plant pathologies, genes of value, GMOs, growth hormones and waterborne liver toxins.**

DESCRIPTION

- Biofords' main activities (in partnership with Agdia Inc. (USA), the world leader in plant diagnostics) are the development, validation for European standards and sales of diagnostic kits in Europe, Africa and Middle-East. Its main customers are plant breeding companies, growers and farmers and other stakeholders in the agro-industry and water industry.

Biofords' kits include:
- Flashkits®, rapid (under 15 minutes), reliable and user-friendly detection, based on immunochromatography. They can be used on site (greenhouses, fields, silos, factories, etc.) or in laboratories and give qualitative results.
- ELISA kits, mainly used by diagnostics and analytical laboratories, research centers and universities; they can provide qualitative and quantitative results.
- PCR kits and hybridization membranes (DNA or RNA) suited to diagnostics and analytical laboratories, research centers and university labs. These kits are qualitative and quantitative tools.

All the above kits are set up to detect: plant pathogens (bacteria, viruses, viroids, fungi, phytoplasma, etc.); the presence and/or quantification of GMOs; quantification of growth hormones in plants and the presence and quantification of several waterborne liver toxins, such as microcystins and nodularins.

Biofords' expertise
- Plant disease and pathogen diagnostics.
- Genetics, genomics and detection of genes of value including GMOs.

Partnerships and collaborations
- Agdia (USA, shareholder, www.agdia.com), Naktuinbouw (The Netherlands, www.naktuinbouw.nl), INRA (France) including URGV-Evry, Serial Genetics (France, www.serialgenetics.com), universities and research institutes throughout Europe..

The Biomanufacturing Center

based at Genopole®

Project manager Alain MÉTAYER

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E-mail alain.metayer@genopole.fr **Web site** www.genopole.fr

BUSINESS SECTOR

- Biopharmaceuticals/Therapeutics

FIELD OF ACTIVITY

- GMP contract biomanufacturing

DESCRIPTION

- Genopole® has created a GMP-compliant center for biomanufacturing therapeutic proteins and monoclonal antibodies in mammalian cell cultures. The plant and its facilities & equipment have been validated and the first batches are due to be produced in October 2008. The main objective is to offer companies and academic labs the contract manufacturing of clinical batches for Phase I and II tolerance and efficacy trials in humans.

This means:
- batch sizes ranging from 1g to 100g of purified molecule.
- high quality standards, in order to guarantee patient safety.

The Genopole Biomanufacturing Center has been designed, validated and launched using a French and European GMP-compliant quality management system.

Biomethodes

CEO\ Gilles AMSALLEM President, Founder and CSO\ Marc DELCOURT
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E-mail\ info@biomethodes.com Web site\ www.biomethodes.com
Date of founding\ 6th Nov.1997

BUSINESS SECTOR

- **Protein engineering**

FIELD OF ACTIVITY

- **Industrial enzymes - Biocatalysis - Biofuels/Bioreffinery - Biotherapeutics**

DESCRIPTION

- **Biométhodes** applies its expertise in molecular evolution and protein engineering to the development of optimized proteins and enzymes both to fuel its own pipeline and through industrial partnerships.

Biométhodes has developed breakthrough technologies to achieve rapid improvement of valuable proteins such as enzymes and therapeutic proteins:

- Massive Mutagenesis® is the **only high-throughput site-directed mutagenesis technology** available today. It is protected by patents delivered in Europe and the US and has been described in several scientific publications.

- THR™, a proprietary stability which was recently presented in Nature Methods, is the **only direct selection technique for stability**. It enables the fast generation of enzymes that are stable enough to be included in industrial process.

Biométhodes' technologies have then been validated extensively through collaborations with industrial partners (including **GSK, bioMérieux, Sanofi-Aventis, Roquette, Adisseo and AB Enzymes**) and have delivered improved enzymes, antibodies, drug targets and therapeutic proteins.

The company is now applying its technology to generate its own research program of proprietary therapeutic proteins and industrial enzymes. In the booming domains of biocatalysis and biofuels/ biorefinery, Biométhodes is developing innovative solutions which it valuates through **industrial partnerships**.

BioQuanta

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Date of founding 1st Jan. 2003

BUSINESS SECTOR

- **Molecular modeling,** 3D pharmacophore identification, drug design, activity, toxicity and ADME prediction, lead validation and optimization; generation of focused virtual libraries.

FIELD OF ACTIVITY

- BioQuanta offers its services to biopharmaceutical companies by designing, validating or improving active pharmaceutical compounds and identifying potential therapeutic activity in existing compounds via highly reliable ADME & toxicity prediction.
- For the chemicals, pharmaceutical, cosmetics and food industries, the company offers rapid identification of «problem compounds» for human or animal health by determining the molecular mechanisms involved and designing robust solutions for reducing or eliminating such problems.

DESCRIPTION

- BioQuanta has a solid track record in molecular modeling and drug design. We have developed a broad array of novel software tools generating highly reliable information. For example, we can predict structure-activity relationships for proteins and receptors or the toxicity of chemical compounds.
In partnership with our clinical collaborators, we merge an in silico approach with *in vitro* or *in vivo* experiments. This enables us to improve and rationalize the biopharmacological properties of compounds: for example, checking the efficiency of receptor stimulation by a specific ligand or selecting the best target for a given therapeutic effect in a designated pathology.
With our "toolbox" of multidimensional pharmacophores, we can predict activity (based on a highly accurate virtual library of 3000 3D GPCRs validated through direct testing or publications) or toxicity (via a standardized library of 15,000 known toxic compounds, plus enantiomers and conformers). Furthermore, by combining these results with detailed quantum chemistry analysis and molecular dynamics studies we can identify the compounds' regions that are most amenable to modification with lead optimization techniques.
Access to the INSERM U829 NMR platform delivers an additional experimental dimension that increases the accuracy and reliability of the results obtained from the target biomolecules.
These validation and optimization procedures rationalize the discovery process and increase its efficiency & reliability while reducing deadlines, costs and the risk of failure in all drug development phases.
Lastly, our service yields comprehensive knowledge of the specific compound-target interactions (required for regulatory IND filings).

BioSolution

Director Guillaume KERBOUL

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E-mail contact@biosolution.fr **Web site** www.biosolution.fr

Date of founding 4th Oct 2006

BUSINESS SECTOR

- Information technologies, Bioinformatics

FIELD OF ACTIVITY

- **BioSolution is an IT company providing professional consulting, project management and integration services for life science research infrastructure. Our solutions are dedicated to data integration, data management and biological data analysis for boosting innovation**

DESCRIPTION

- BioSolution's main business is designing, developing and deploying high-level laboratory information systems, focusing on:

- Biological material tracking and robot integration (LIMS and Electronic Laboratory Notebooks, reporting tools).
- Design and development of scientific databases, data integration and curation.
- Core applications, web portals and data management systems.
- Set-up of high-throughput production and analysis platforms for genomics and transcriptomics (sequence management and annotation, microarray design and analysis, Q-RT-PCR, etc.).
- Optimization of data analysis and decision processes.

Our experience in IT deployment and software development for the life sciences enables us to provide the right solution for your needs. BioSolution can assist your company with all the steps in the IT decision and development process (audit, identification of user needs, technical requirements, technology choice, project management, deployment and validation).

Partners: Integromics (Spain) - software for microarray data management and analysis.

BioSystems International

CEO Jean-Pierre TIROUFLET **CSO, GENERAL DIRECTOR** Laszlo TAKACS
COO, VICE-PRESIDENT BUSINESS DEVELOPMENT AND FINANCES François LIEBAERT **CTO** Andras GUTTMAN
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E-mail info@biosys-intl.com **Web site** www.biosys-intl.com

Date of founding 17th May 2004

BUSINESS SECTOR

- Diagnostics. Therapeutic research

FIELD OF ACTIVITY

- Biomarker discovery, validation and development using our proprietary mAb-mediated discovery platform, high-throughput mAb screening, plasma protein normalization and low abundance protein enrichment

DESCRIPTION

- **Our mission:** BioSystems International (BSI) significantly improves drug discovery and development productivity (i.e. safer and more effective drugs at lower cost and in less time) and disease management (i.e. drug prescription justification for physicians) by bringing qualified biomarkers to the bedside.
- **Who we are:** BSI merges pharmaceutical and diagnostics industry experience with leading scientific and technology expertise and know-how in systems biology, separation science, cutting-edge proteomics, genomics and micro/nanoscale analysis.
- **What we do:** BSI rapidly discovers, validates and qualifies biomarkers through partnerships with pharmaceutical, biotechnology and diagnostics companies and in-house programs or academic collaborations.

Advantage and unique features of the BSI approach: BSI's proprietary *integrated and streamlined process* links the power of large-scale monoclonal antibody technology, separation science, microfluidics, nanovolume integrated mass-spectrometry and bioinformatics to query the entire plasma/ serum proteome for new, disease-mechanism specific biomarkers. After careful *enrichment of low abundance* and disease-specific proteins, our hypothesis-independent method allows BSI to achieve the quantitative analysis of *virtually all proteins* in bodily fluids. Because our process is *antibody-based*, only those biomarker candidates capable of generating a robust antibody will be detected, *dramatically improving the chances and reducing the time of successful assay development.* BSI builds a streamlined strategy to identify, validate and qualify the most promising biomarkers via a process that includes confirmation of clinical relevance on large patient cohorts in phase II and phase III clinical trials.

- **Fields of interest:** chronic diseases and cancer.

Main customers: AstraZeneca, Euroscreen
Locations: France (Evry, HQ and main labs), Hungary (Budapest and Debrecen), USA (Boston)

Bracer BioTech

CEO Philippe RENEVEY

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Date of founding 21st Aug. 2003

BUSINESS SECTOR

- Instrumentation

FIELD OF ACTIVITY

- Precise control of the experimental cell environment *in vitro*
- Non-deleterious *in vitro* membrane electropermeabilization

DESCRIPTION

- Bracer BioTech offers innovative equipment for fluid perfusion in the biotech and pharmaceutical research sectors, making it possible to exert precise, reproducible and automatic control of the experimental *in vitro* cellular environment using a variety of containers and cell types (custom-designed chambers, Petri dish, ibidi® microchannels, , etc.). These features meet laboratories' requirements in terms of cellular physiology by creating and controlling complex, dynamic cellular environments. In addition, the automated cleaning of our equipment represents a pertinent solution for researchers seeking to integrate high levels of good practice and facilitate knowledge transfer to industry.

In parallel, Bracer BioTech applies its technology directly by carrying out embryo and stem cell engineering research:

- *in vitro* maturation and fertilization (**IVM-IVF**),
- intracytoplasmic sperm injection (**ICSI**),
- reproductive animal cloning,
- gene therapy,

in order to automate and standardize these techniques while increasing their efficiency. The equipment developed for this type of work can be made available on a sales or service basis.

Bracer BioTech also offers an innovative membrane permeabilization procedure for use with oocytes: DICE, Driving IntraCellular Events. An oocyte can be permeabilized as many times as required, thanks to this non-deleterious process.

Cellvax

President Ming WEI

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Date of founding 19th June 2001

BUSINESS SECTOR

- Biomedicine/Healthcare

FIELD OF ACTIVITY

- Service company for preclinical validation studies in the field of oncology

DESCRIPTION

- **Cellvax** is a service company which provides a comprehensive range of innovative, preclinical services enabling acceleration of the drug development process in the field of oncology. Cellvax was created by a motivated and well-matched team of scientists and experts in oncology. By offering its know-how and innovation capacity, Cellvax is seeking to collaborate with public- and private-sector laboratories developing anti-cancer drugs. Cellvax's expertise is based on its know-how in the fields of molecular & cellular biology and its novel *in vitro* and *in vivo* models. These services can be extended to any laboratory involved in the anti-cancer drug development process. Cellvax's service provision is well suited to the validation and development of anti-cancer drug candidates and fully validated systems such as subcutaneous and orthotopic tumor models in animals; *in vitro* and *in vivo* angiogenesis models; a novel "Nodule" system, tumor invasion tests, *in vivo* imaging, biodistribution studies, pharmacokinetics, toxicology *in vitro* and *in vivo*, etc. We continuously endeavor to follow market trends and to satisfy our customers' specific needs worldwide. Cellvax is determined to develop and enhance its national and international collaboration with public-sector labs, biotech companies and pharmaceutical businesses working in the cancer field.

Cellvir

Heads of project Michael COURTNEY (CEO), Richard PLATFORD (Founder), Richard BENAROUS (CSO), Jean DEREGNAUCOURT (non executive Vice president)

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Date of founding 20th March 2006

BUSINESS SECTOR

- **Biomedicine/Healthcare (therapeutic screening)**

FIELD OF ACTIVITY

- **Development of a new generation of antiretroviral drugs which inhibit the interaction between viral and cellular proteins in infected cells**

DESCRIPTION

- CellVir is developing a new generation of antiretrovirals based on a new therapeutic approach: CellVir proposes targeting the host-virus protein/protein interactions which have been shown to be essential for viral replication in infected cells, instead of directly targeting the catalytic activity of the viral enzymes. CellVir believes that therapies based on this first approach will be less vulnerable to the three key problems faced by all current anti-HIV compounds i) the development of resistance as the virus mutates, ii) the creation of viral reservoirs as the integrase integrates into the cellular genome and iii) toxicity problems related to chronic administration of today's HAART therapies. Furthermore, given that these new antivirals are being developed on a completely different conceptual basis, they should also be complementary to (and capable of avoiding problems of cross-resistance) current drug therapies.
In collaboration with Richard Benarous' INSERM laboratory at the Cochin Institute (Paris), CellVir has identified and biologically validated a number of novel, proprietary targets.

Based on these targets, and through a specific programme of high throughput screening and medicinal chemistry, Cellvir is developing its innovative antiretroviral therapies.
CellVir's business model is based on the development of its lead hits through to the "proof-of-concept" in man (clinical phases I & IIa), followed by out-licensing to (or co-development with) a pharmaceutical or biopharmaceutical major. A proof-of-concept in animal is being targeted by late 2008/early 2009.
CellVir is managed by a dedicated team of internationally-known scientists (specializing in basic virology research and host-pathogen molecular interactions) and acknowledged industry experts in chemical, pharmaceutical and clinical development.

Celogos

Chairman of the Executive Board André ULMANN **CSO** Christian PINSET **Tél** +33 6 64 78 44 33

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Date of founding 23rd June 2001

BUSINESS SECTOR

- Therapeutic research and development

FIELD OF ACTIVITY

- CELOGOS is a biotech company focused on cell therapy using muscle stem cells. We are seeking to demonstrate the pertinence of cell-based tools for solving public health problems

DESCRIPTION

CELOGOS develops innovative cell-based therapies in response to public health needs. Incorporated in 2001 by Dr Christian Pinset with support from the Pasteur Institute, Celogos is focused on the development of autologous solutions.

Our prime objective is the development of cell drugs for the treatment of urinary incontinence - a condition which affects 10 million people (above all women) in the United States, Europe and Japan. This pathology is often a taboo subject but is very invalidating and has a significant negative impact on everyday social and professional activities.

Celogos' RCD1 product aims at repairing the defective muscle (the urethral sphincter) via an injection of autologous muscle cells. The patient's muscle cells are sampled using a muscle biopsy, multiplied in culture and then re-injected into the sphincter. These cells contain therapeutic cells and thus constitute a «cell drug». This treatment is a personalized, biological and reparative alternative which does not require hospitalization and enables functional repair of the defective muscle tissue causing the incontinence.

Proof of concept has been obtained and a successful Phase I trial was completed in 2005. A Phase II is now underway. Thanks to its alliance with France-based HRA Pharma, Celogos has been able to reinforce its skills and obtain the funding required to effectively develop its products. HRA Pharma and Celogos are seeking strategic commercial partners.

Centaure Metrix

Director Bernard AUVINET **Consultant Scientifique** Eric BARREY

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Date of founding 18th Oct. 2001

BUSINESS SECTOR

- **Mesure et expertise de la marche et de la course**

FIELD OF ACTIVITY

- **Santé : mesurer rapidement un déficit fonctionnel de la marche pour réaliser un suivi et donner un pronostic en rééducation, rhumatologie, gériatrie, neurologie, ergométrie et diététique ; médecine du travail, scolaire ou militaire ; recherches cliniques et pharmacologiques. Bilan et suivi de l'obésité par actimétrie.**
- **Sports : tester la technique de l'athlète pour individualiser l'entraînement en football, rugby, athlétisme, basket-ball, aviron, tennis.**
- **Courses et sports hippiques, courses de dromadaires et de chiens : sélectionner le meilleur potentiel sportif pour valoriser la génétique et prendre un avantage concurrentiel.**

DESCRIPTION

- La société **Centaure Metrix** commercialise plusieurs appareils de mesure et réalise des études de la locomotion humaine et animale.
- **LOCOMETRIX ™** est un appareil d'enregistrement et d'analyse de la marche et de la course humaine utilisé pour des applications médicales et sportives. L'appareil porté par le sujet lui permet de se déplacer librement. Il mesure précisément les caractéristiques biomécaniques de la marche et la dépense de calories : régularité, symétrie des appuis, fréquence des pas, onde de chocs de hautes fréquence, puissance mécanique et dépense de calories. De nombreuses études cliniques ont validé cette méthodologie innovante utilisée pour le diagnostic et pronostic des arthroses, le suivi de rééducation, la prédiction des risques de chute et le suivi des d'activité de la personne obèse. Pour le sport, l'intérêt des tests est de perfectionner la technique d'entraînement et de détecter les aptitudes physiques.
- **EQUIMETRIX ™** est un appareil d'analyse des allures du cheval ou d'autres espèces animales sportives comme le dromadaire et le chien. Ce dispositif simple d'utilisation mesure les caractéristiques des foulées de l'animal : cadence, puissance de propulsion, régularité et symétrie des appuis. Grâce à Equimetrix, les entraîneurs hippiques peuvent détecter de façon précoce les défauts de locomotion et identifier les animaux les plus aptes à la course d'endurance, la course au galop, le saut d'obstacle et le dressage. Cet appareil permet de prédire correctement jusqu'à 70 % du potentiel sportif d'un jeune cheval testé au début d'entraînement. Equimetrix pourrait s'affirmer rapidement comme un outil précieux pour les éleveurs et les entraîneurs qui souhaitent optimiser leurs méthodes de sélection et augmenter leurs chances de victoire.

DNA Therapeutics

DNA THERAPEUTICS

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Date of founding 8th June 2006

BUSINESS SECTOR

- **Anticancer biopharmaceuticals (translational research and the development of innovative therapeutics)**

FIELD OF ACTIVITY

- **Development of first-in-class small-molecule cancer drugs used in combination with radiotherapy and chemotherapy and based on siDNA technology.**

DESCRIPTION

- DNA Therapeutics SA is a biopharmaceutical company which develops innovative small molecular drugs against cancer, with a particular focus on addressing treatment-related resistance. As a spin-out from four major French research institutions (Institut Curie, CNRS, INSERM, MNHN), the company is building upon the core scientific competencies of Professor Jian-Sheng Sun, Dr Marie Dutreix and Professor Jean-Marc Cosset, who have developed an innovative siDNA (short inhibiting DNA) technology platform, and a portfolio of related worldwide exclusive licenses from the parent institutions.

DNA Therapeutics operates within the cancer market, where radio/chemoresistance by tumor cells can lead to therapeutic failure. The company is targeting DNA repair pathways because cancer cells hijack these natural processes to resist anticancer therapies. Our strategic vision is to build DNA Therapeutics into a major player addressing treatment-related resistance in combination with existing cancer therapies, such as radiotherapy and chemotherapy.

In the near term, DNA Therapeutics' business strategy is focused on establishing proofs of concept in indications where radiotherapy (as the standard of care) failed to control disease progression due to radioresistance. Our small-molecule drugs will first be delivered locally as a radiotherapy mainly used to provide local/regional cure & control of cancer.

In the long term, DNA Therapeutics will target major indications by developing systemic delivery in combination with standard chemotherapy. The company will strengthen its product pipeline by coupling its in-house R&D programs to the in-licensing of additional drug candidates and delivery systems.

This strategy should enable rapid development and value creation by reducing time to market.

Drugabilis

DRUGABILIS
from molecules to drug candidates

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Date of founding\ 7th Oct. 2004

BUSINESS SECTOR

- **Experimental support and consulting in drugability for research**

FIELD OF ACTIVITY

- **Pharmaceutical drugability for research: consulting and experimental support for selection of drugable candidates and delivery systems**

DESCRIPTION

- DRUGABILIS is the first CRO to specialize in pharmaceutical physicochemical characterization and formulation as applied to the early selection of new drug candidates. We deliver both experimental support and consulting services to our customer's research efforts by supporting the selection of drugable compounds and delivery systems.

- Experimental studies performed at DRUGABILIS deal with the physical and physicochemical characterization of new chemical entities and delivery systems. DRUGABILIS also designs and manufactures research formulations aimed at supporting animal studies of any kind and based on any administration route.

- DRUGABILIS' consulting missions cover a large number of areas, from scientific advice on selecting preclinical development candidates to technical due diligence or the conception and design of specific methodologies for research compound evaluation.

- Based on its very comprehensive technical platform (specifically designed for discovery support), DRUGABILIS is able to create targeted experiments which address a variety of issues encountered throughout the research process. We are committed to working on minimal API amounts and meeting very tight deadlines.

- DRUGABILIS' expertise is based on years of experience of pharmaceutical research support for the selection of preclinical drug candidates and on solid knowledge of early pharmaceutical development processes and constraints, acquired in major pharmaceutical companies (Pfizer, Parke-Davis, etc.). Experiments are conducted at DRUGABILIS by very senior technical staff, all of whom have pharmaceutical industry backgrounds.

The Enzyme Production and Biocatalysis Center

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BUSINESS SECTOR

- White biotechnology

FIELD OF ACTIVITY

- Production of proteins for industrial use

DESCRIPTION

- The Center has been designed for the non-GMP production of pre-industrial batches of novel enzymes and compounds generated by new biocatalytic processes.

- Enzyme production: starting from an enzyme that has been validated at the research stage, we can create production strains, perform process development (scale-up and purification) and produce batches for industrial validation.

- Implementation of biocatalytic processes: starting from a purified and validated enzyme (commercially available enzymes, novel enzymes produced by a third party or enzymes produced by the Center itself), we can implement a biocatalytic process and then scale up and optimize the reaction conditions.

The strain and expression vector construction activities and the production of batches of enzymes or bioprocess-derived compounds all involve microbial culture (bacteria, yeasts and fungi).
The 800-square-meter Center is equipped with fermentors (up to 300 liters in volume) and reactors (up to 50 liters) and is capable of producing batches of up to 10 kg of compound.

The Center is scheduled to open in late 2009.

Epixis

epixis

CEO\ Charlotte DALBA **Board of Directors** Charlotte DALBA, CEO, Epixis \Damien SALAUZE, Director of Technology Transfer and Industrial Relations, Institut Curie, France \Paul MADDON, CEO, Progenics, USA \Philippe MOINGEON, Vice President R&D, Stallergenes, France \Hans WIGZELL, Professor of Immunology, Karolinska Institute, Sweden

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Date of founding 23rd July 2003

BUSINESS SECTOR

- **Immunotherapeutics against viral infectious diseases**

FIELD OF ACTIVITY

- **Development of immunotherapeutics against hepatitis C and influenza**
- **Neutralizing antibody assays**

DESCRIPTION

- **EPIXIS develops advanced immunotherapeutics based on recombinant virus-like particles (VLPs)** which have a conformationally correct nature and induce exceptional potent immune responses. These VLPs notably represent a scientific breakthrough in the development of immunotherapeutics against hepatitis C, in as much as they are the only immunogens capable of inducing both cellular and neutralizing humoral immune responses.

- **EPIXIS holds a portfolio of six different patents** that cover all aspects of its technology.

- **EPIXIS targets a huge market;** the current prevalence of Hepatitis C is estimated at about 170 million people, i.e. about 3% of the world population, and this number is likely to increase, since symptoms may arise decades after infection. The only currently available drugs (interferon and ribavirin) have unacceptably low efficacy and carry severe side effects, which leaves a vastly unsatisfied medical need. Hepatitis C virus infection is spontaneously cleared in only around 20% of infected people. Active immunotherapy represents a promising option for stimulating immune responses in the patients who do not eliminate the virus spontaneously.

EPIXIS' founders – three scientists with strong synergistic backgrounds

- *François-Loïc Cosset*, PhD; Virologist at the Ecole Normale Supérieure in Lyon, a research director at the CNRS and a research unit director at the INSERM.
- *David Klatzmann*, M.D., PhD; Professor of Immunology at the Pierre and Marie Curie University's Faculty of Medicine in Paris, Director of the Biotherapy Clinic at the Pitié-Salpêtrière Hospital and Director of a joint CNRS Pierre and Marie Curie University research unit.
- *Frédéric Tangy*, Ph.D, Biochemist at the Pasteur Institute in Paris and a research director at the CNRS.

Flowgene

Flowgene

CEO Bruno de VANDIERE

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Date of founding 11th Dec. 2001

BUSINESS SECTOR

- Instrumentation

FIELD OF ACTIVITY

- **Single capillary sequencing using liquid-phase capillary electrophoresis. 224 or 248 nm laser-induced fluorescence detection (native fluorescence)**

DESCRIPTION

- An initial project consisted in developing a DNA sequencer based on the principle of liquid-phase capillary electrophoresis (in contrast to the exclusively gel-based techniques used to date for separating bases). The use of a liquid phase for performing base separation is at the heart of Flowgene's technology: it enables the sequencing of strands of over 2000 base pairs (bps) in length. In comparison, the sequencers currently on the market are limited to 1000 bps or even 600 bps, depending on the technique used.
A base separation kit (consumable) will be developed for performing sequencing with a Flowgene-designed instrument.

- A second project consisted in developing a 224 nm laser-induced fluorescence detector. This system is particularly useful in capillary electrophoresis and HPLC and enables the detection of the native fluorescence emitted by compounds when exposed to the laser beam.
The detector avoids the need to use fluorescent labels for identifying various components. Applications concern the protein and peptide fields in particular.

Gene Signal

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Date of founding\ 11th Feb. 2000

BUSINESS SECTOR

- Biomedicine/therapeutic R&D

FIELD OF ACTIVITY

- Development of highly innovative therapeutic products on the basis of a proprietary portfolio of genes intimately involved in the regulation of angiogenesis

DESCRIPTION

- Gene Signal is a research and development company in the field of angiogenesis. On the basis of its portfolio of over 90 genes specifically involved in the regulation of angiogenesis, Gene Signal develops and validates innovative, therapeutic solutions for angiogenesis-related pathologies. Gene Signal's product portfolio is constituted by gene derivatives such as agonists, antagonists and recombinant proteins etc. The company is focusing its development efforts on a number of niche (and, in particular, orphan) drugs. Gene Signal's first lead has already been delivered orphan status for two pathologies by the EMEA (the European Agency for the Evaluation of Medicinal Products). A Phase I clinical trial has already been completed and Phase II clinical investigations are underway. In addition to its first lead, Gene Signal is currently developing five other products, covering both cardiovascular and oncological disorders..

Généthon

A not-for-profit biotherapeutics company

President Bernard BARATAUD **Chief Executive** Dr Anne-Marie MASQUELIER

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Date of founding 1990

BUSINESS SECTOR

- Discovery, development and manufacture of innovative therapeutics for rare genetic diseases

FIELD OF ACTIVITY

- GMP manufacturing center (the «Gene and Cell Therapy Establishment, ETGC) for gene transfer vectors
- Gene and cell therapies for rare diseases
- Vectorology, gene transfer, stem cells, pharmaceutical development, regulatory affairs, preclinical & clinical development (functional exploration, assays, imaging, therapeutic assessment), therapeutics based on genetic knowledge, gene therapy

DESCRIPTION

- Since 1997, **Généthon** (85% funded by the AFM, the French Muscular Dystrophy Association, via donations raised during the French «Telethon» TV fundraising event) has focused on gene & cell therapies and their applications in rare genetic diseases.

Généthon has implemented a gene therapy program that includes:
- a GMP-certified biomanufacturing unit for the production and release of clinical trial batches.
- pharmaceutical development activity, the goal of which is to establish reliable, reproducible and upscalable processes which comply with the current legislation and safety requirements.
- drug development activity generated by both in-house and collaborative research: Duchenne and limb-girdle muscular dystrophies, Wiscott-Aldrich syndrome, epidermolysis bullosa, spinal muscular atrophies, etc.
- clinical research activity.
- research activity (performed in collaboration with the CNRS*, the INSERM and the University of Evry) on the fundamental problems posed by genetic diseases and on means of repair.

* the French National Center for Scientific Research (the joint CNRS/Université d'Evry research unit 3018).

GenOdyssee

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Date of founding\ 1st Oct. 1999

BUSINESS SECTOR

- Biotechnology: Drug discovery

FIELD OF ACTIVITY

- Infectious disease: Hepatitis C - Cancer: Melanoma/Vaccines/Neoplastic disease/Renal cell carcinoma - Immunomodulation: Vaccine adjuvants - Hematology: anemia

DESCRIPTION

- GenOdyssee is an innovative drug discovery company that is seeking to bring important new medicines to patients by leveraging its unique strengths in protein therapeutics and natural genetic variation technologies. GenOdyssee uses a unique, population genetics-based approach to the discovery of next-generation protein therapeutics with superior properties. The company pioneered the vision that natural evolution may have led to the generation in the current population of unpredictable mutations that confer superior or novel therapeutic status to known human therapeutic proteins. The company has a proprietary, genomic DNA databank representative of the human population, which is screened for natural genetic variants of therapeutic proteins with superior properties. Screening of this proprietary databank has yielded two lead IFN alpha products and a natural variant of EPO with improved profiles relative to currently marketed proteins. GenOdyssee's drug discovery platform is applicable to a broad variety of cytokines and growth factors including interferons, erythropoietins and interleukins and their receptors and blood clotting factors, neuropeptides, hormones and their receptors. GenOdyssee's therapeutic products are naturally-improved variants of human IFN & EPO results in a lower clinical development risk profile than artificial, genetic variants of the same proteins..

PARTNERING: STRATEGY/INTERESTS

- GenOdyssee is looking for partnerships with pharma or «big biotech» companies with franchises, clinical development skills and marketing expertise in the oncology, virology or hematology areas. We are looking for long-term relationships and seek to develop sustainable, win-win solutions with our partners.
In 2006, the company entered into its first research and development collaboration in hematology with Baxter International Inc.'s Baxter AG subsidiary. GenOdyssee will use its technologies to discover blood-clotting factors for Baxter AG.

Genomining

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Date of founding\ 24th April 2001

BUSINESS SECTOR

- Bio-informatics

FIELD OF ACTIVITY

- **Genomining specializes in the discovery, interpretation, acquisition and exploitation of data in biology and chemistry**

DESCRIPTION

Genomining develops and markets tools which help analyze data in biology;
- GetDB, which allows automatic database downloading and integration, whatever the data's original format;
- Navibio, which integrates all the functions needed to automate and facilitate access to a large set of molecular biology databases;
- UVSS, which manages large «virtual screening» pipelines on extensive computer farms, using different docking engines.

Genomining was the scientific leader of the Decrypthon I project in 2001-2002 (a major grid computing protein comparison project), together with AFM and IBM and assistance from 75,000 volunteers on the internet. Genomining also offers consultancy on bioinformatics.

Genoplante Valor SAS

Member of the Executive Board Dominique LABORDE
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Date of founding 7th Nov. 2001

BUSINESS SECTOR

- Agro-industry

FIELD OF ACTIVITY

- Plant genomics

DESCRIPTION

- Génoplante-Valor SAS performs IP management and value enhancement for the results of France's «Génoplante» national public-private research program on plant genomics.

This involves:

- owning and managing all IP derived from the Génoplante R&D consortiums (patent or IP filing, defense, FTO analysis, etc.).
- negotiating in- and out-licenses on behalf of consortium members.
- granting royalty-free licenses on cash crops to developing countries.

Results:

- Bioinformatics products (software and databases) developed within Genoplante projects on wheat, maize, rice, pea, rapeseed and sunflower crops and also on the Arabidopsis model genome.
- ESTs, microarrays, BAC libraries, microsatellites, SNPs, collections of insertion mutants.

Access to the Génoplante databases and bioinformatics resources: http://urgi.versailles.inra.fr/

GenOptics

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Date of founding\ 7th Aug. 2001

BUSINESS SECTOR

- Biochips, biosensors

FIELD OF ACTIVITY

- Scientific instruments allowing label-free, real-time and parallel monitoring of interactions between circulating targets and up to several hundred spots of immobilized probes on a biochip. All types of bio-interactions can be detected, notably including protein-ligand, DNA-DNA, DNA-protein and oligosaccharideprotein interactions. The technology is based on the surface plasmon resonance imaging technology (SPRi) developed at the Orsay Optics Institute in Paris, France

DESCRIPTION

- GenOptics' mission is to develop and commercialize microarray detectors and services based on SPRi technology.

The company commercializes two instruments - SPRi-Plex and SPRi-Lab. SPRi-Lab + is an affordable model which is ideal for biophysics applications, amongst others. SPRi-Plex is the appropriate model for applications in (for example) drug development screening and diagnostics research.

In addition to number of contacts with French and foreign biotech & pharmaceutical companies, contracts and collaborations have been established with:
- Centre d'Etudes du Bouchet
- Centre de Génétique Moléculaire, Gif-sur-Yvette
- ENSEA (an elite engineering school), Cergy
- INSERM, Grenoble
- CEA, Grenoble
- ENS, Cachan
- CNRS, Evry
- Joint Research Center, Ispra (Italy)
- LAAS, Toulouse

GenoSafe

Founders Généthon, and AFM (the French Muscular Dystrophy Association)
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Date of founding 3rd Sept. 2003

BUSINESS SECTOR

- **Biomedicine/Healthcare/Service company/Safety and efficacy of biotherapeutics**

FIELD OF ACTIVITY

- **Vaccination, gene therapy, cell therapy, immunotherapy**

DESCRIPTION

- GenoSafe is a service company which specializes in evaluating the efficacy and safety of biotherapeutics (viral and non-viral vectors, vaccines, recombinant proteins, monoclonal antibodies, cellular products, etc.). From product development through to market launch, we carry out studies which meet your specific needs in strict compliance with regulatory requirements.

- GenoSafe proposes a true partnership in study design, assay development & validation, product testing and data analysis in four main fields:
- Molecular analysis: gene expression measurement, biodistribution studies of gene-based therapeutics, detection of specific DNA sequences.
- Immunology and immunomonitoring: characterization of inflammatory, humoral and cellular responses.
- Quality control of viral vector batches for preclinical and clinical use.
- Customized engineering and characterization of cell lines.

- GenoSafe also performs specific patient follow-up work during the clinical trial phases.
GenoSafe's clients benefit from our strong quality assurance policy. When required, studies are performed in compliance with good laboratory practice (GLP).

Institute for Stem Cell Therapy and Exploration of Monogenic Diseases

Manager Marc PESCHANSKI

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Date of founding January 2005

BUSINESS SECTOR

- Cell therapy, disease modeling, stem cells, monogenic diseases

FIELD OF ACTIVITY

- The laboratory's activity is based on a combination of three key topics: stem cells, therapeutics and monogenic diseases. Research work focuses on evaluating the therapeutic potential of stem cells in rare monogenic diseases of genetic origin. The I-STEM research groups are particularly exploring cell replacement therapies for degenerative pathologies and the possible use of pathological mutant stem cell lines as targets in drug screening libraries

DESCRIPTION

I-STEM is a research institute which offers its competencies and know-how to pharmaceutical and biotechnological companies through service delivery:

- I-STEM hosts and trains personnel in human embryonic stem cell culture.

- I-STEM has equipped its HTS laboratory with an automated cell culture system, thus enabling the handling and screening of large chemical libraries of pharmaceutical interest in proprietary or third-party disease models.

Imagene

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Date of founding\ 1st Dec. 1998

BUSINESS SECTOR

- **Long-term conservation of biological material at room temperature**

FIELD OF ACTIVITY

- **Services and products for unlimited-term, encapsulation-based conservation of DNA at room temperature. Additional DNA purification services**

DESCRIPTION

- IMAGENE has developed and obtained a worldwide patent for a novel, encapsulation-based technology for the unlimited-term conservation of DNA at room temperature.

The IMAGENE technology is based on controlled-atmosphere encapsulation of pre-purified and desiccated DNA which is then protected from degradation factors by storage in compact, sealed, corrosion-proof metal capsules. It is thus possible to store the DNA of any species in a form compatible with any type of subsequent analysis.

Our breakthrough innovation has many advantages over conventional (cryostorage) methods, particularly in terms of stability, safety, operating & maintenance costs, transport and distribution.

IMAGENE is currently setting up a biotech platform with an automated production line for processing large numbers of DNA samples. This industrial facility will ensure the full traceability of each biological sample and meets appropriate quality assurance standards.

IntegraGen

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Date of founding\ 11th July 2000

BUSINESS SECTOR

- Genetic research and diagnostics

FIELD OF ACTIVITY

- Identification of genes causally associated with complex diseases, identification of biomarkers and the development & delivery of genetic tests and services for predictive diagnostics

DESCRIPTION

- IntegraGen is a pioneer in the field of personalized healthcare. The company is dedicated to discovering genes associated with complex diseases and commercializing molecular diagnostic tests in order to enable individualized diagnosis, prevention and treatment of disease.
IntegraGen's proprietary GenomeHIP™ gene mapping technology provides fast, reliable and cost-effective discovery of genetic loci.

By coupling its high-precision gene mapping & genotyping platforms with strong biostatistics and bioinformatics capabilities, IntegraGen has successfully identified and patent protected gene applications associated with early and late onset diseases. Efforts are currently focused on type 2 diabetes, obesity and autism. Clinical trials have been completed for the company's first diagnostic test.

IntegraGen also has a Genetics Services business, operating out of the company headquarters in Evry, France, and providing customized genotyping and genomic services to the research community.

LTKfarma

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Scientific founders David KLATZMANN François LEMOINE José COHEN
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Date of founding March 2006

BUSINESS SECTOR

- Biopharmaceuticals/Healthcare

FIELD OF ACTIVITY

- Discovery, development and marketing of cell therapy products (derived from modified T-cells) for the treatment of leukemia and autoimmune diseases

DESCRIPTION

- LTKfarma is a research-driven, early-stage biopharmaceutical company developing a genetic immunosuppression strategy for the application of scientific discoveries pioneered by the founding scientists: Professors David Klatzmann and François Lemoine and Dr José Cohen (CNRS/UPMC ESA 7087 Biology and Therapy of Immune Diseases Unit and the Biotherapy Service, Pierre and Marie Curie University, Pitié-Salpetrière Hospital, Paris, France).

LTKfarma's main objectives are to:
1. Drastically reduce mortality from graft-versus-host disease (GVHD), the main complication of allogeneic, hematopoietic stem cell transplantation (HSCT), i.e. a target figure of 5% instead of today's 20%-60%.

2. Offer a new therapeutic solution that overcomes graft shortages in HSCT for leukemia patients.

3. Offer HSCT as a therapeutic alternative with an enhanced risk/benefit ratio for patients suffering from severe forms of autoimmune diseases such as scleroderma, multiple sclerosis and rheumatoid arthritis.

The company is currently seeking industrial and commercial partnerships for the development and commercialization of its TK54 product. LTKFarma is equally looking for fundraising opportunities in order to initiate pivotal clinical studies with the objective of a first NDA before 2011.

MAT Biopharma

MAT BIOPHARMA
IMMUNO TARGETING COMPANY

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Date of founding\ 15th Feb. 2000

BUSINESS SECTOR

- **Biomedicine/Healthcare (therapeutic research & development)**

FIELD OF ACTIVITY

- **Development of therapeutic monoclonal antibodies for the treatment of malignant blood diseases (such as lymphomas and leukemias) and solid tumors**

DESCRIPTION

- MAT Biopharma is a company specializing in the development of therapeutic monoclonal antibodies. MAT develops both radiolabeled (radioimmunotherapy) and naked antibodies - vectors for antiproliferative or cytotoxic activities such as ADCC or CDC.

MAT has a broad and promising portfolio of 6 products: Its leading compound (Ferritarg®) is currently in phase I//II. Ferritarg® is an 90Yttrium-labeled, polyclonal antiferritin antibody for the treatment of refractory Hodgkin's disease. In 2004, Ferritarg P was awarded «Orphan Medicinal Product» status for this indication by the European Agency for the Evaluation of Medicinal Products (EMEA). The FDA granted an Orphan Drug designation to MAT in September 2006. The clinical protocol for the phase II/III pivotal study has been validated by the EMEA. MAT plans to initiate this trial during Q3 2008 and also intends to apply for temporary authorizations for patient use.

Five products in the preclinical phase:
- An 90 Yttrium-labeled, chimerized, antiferritin gamma-1 monoclonal antibody for the radio-immunotherapeutic treatment of pancreatic and liver cancer.

- Hyaloxan®: a chimerized, anti-CD44 gamma-4 monoclonal antibody for the treatment of acute myeloid leukemia.
- A bispecific (anti-CD5/antiCD32) monoclonal antibody for the treatment of the chronic lymphocytic leukemia.
- A chimerized gamma-1 monoclonal antibody anti-CD71 for the treatment of metastatic and choroid cancers.
- A chimerized gamma-1 monoclonal antibody anti-CD160 in solid tumors and ophthalmology.

In order to identify novel, active molecules as part of a targeted therapy approach, MAT has designed a unique, high-throughput screening (HTS) platform for hybridomas and cell screening.

MilleGen

CEO Hakim KHARRAT

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Date of founding 21th Oct. 1999

BUSINESS SECTOR

- Biomedical/healthcare (drug discovery process)

FIELD OF ACTIVITY

- R&D of fully human recombinant antibodies for therapeutic and diagnostic use.
- Genetic engineering of recombinant proteins and antibodies
- Tailor-made services in molecular biology

DESCRIPTION

- **MilleGen** is a biotech company focused on the directed molecular evolution of recombinant proteins in general and recombinant antibodies in particular (Datamonitor - May, 2006). Our random mutagenesis technology, MutaGen™, enables an innovative approach to recombinant antibody engineering for maturation of their immunological and pharmacological properties. MutaGen™ is a part of a technology platform dedicated to R&D of fully human recombinant antibodies for therapeutic and diagnostic use.
This platform also includes libraries of human recombinant antibodies available for screening against targets of interest, high-throughput screening tools and new expression vectors for use in the production of human monoclonal antibodies. Key components of this platform are covered by an effective portfolio of 5 patents.

MilleGen offers contract research services to pharmaceutical and biotechnology companies seeking to develop new biotherapeutic molecules.

Furthermore, MilleGen provides a broad range of tailor-made services:

- Genomics: expertise and know-how in molecular biology:
  - DNA sequencing projects (microbial or viral genomes, BACs, exon sequencing, mutation detection, etc.).
  - Projects on cloning, vector design, directed mutagenesis, etc.

- Peptide synthesis and animal immunization for the production of polyclonal antibodies.

- Bioinformatics: custom designed analyses (such as SNP discovery and functional annotation) and in-depth knowledge of the data mining process.

NanoBH

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BUSINESS SECTOR

- Biomedicine/Healthcare

FIELD OF ACTIVITY

- Development of innovative formulations for better delivery of active pharmaceutical compounds

DESCRIPTION

- NanoBH is developing a new manufacturing process technology: NanEco® nanoparticles are made by simply mixing two aqueous solutions: a polycyclodextrin polymer (pCD) and a dextran bearing alkyl side chains (DM). When these solutions are mixed, the hydrophobic alkyl chains of the dextran spontaneously form inclusion complexes with the CDs, thus forming a molecular superstructure.

The main advantage of this «green» technology is the ability to form small (10-200nm) supramolecular particles without the need to use solvents or surfactants. The particles are used to encapsulate and deliver low-molecular-weight molecules in a targeted manner.

The technology has many applications in human & animal healthcare, the cosmetics industry, agribusiness and the nanotextiles sector.

Nautilus Biotech

CEO Philip PARKINSON

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Date of founding 24th Jan. 2000

BUSINESS SECTOR

- Biopharmaceuticals

FIELD OF ACTIVITY

- Nautilus Biotech is a drug discovery and development company with a pipeline of next-generation therapeutic proteins

DESCRIPTION

- Nautilus Biotech's protein engineering technology improves the pharmacological profiles of protein drugs and boosts drug stability and ease of administration. The company is also creating proprietary "third generation" therapeutic proteins which are suitable for oral administration.

The most advanced products are Belerofon® (interferon alpha) SC formulation (Phase I clinical trials completed) and oral formulation (IND filed and approved), as well as oral Vitatropin® (growth hormone; IND in preparation).

Other key products in the Nautilus pipeline are EPO, clotting Factor IX (in collaboration with Wyeth), HMG BoxA (in collaboration with Creabilis Therapeutics), IFN-beta, IFN-gamma.

Nokad

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Date of founding\ 21st Jan. 2004

BUSINESS SECTOR

- ***In vivo*** **functional characterization, functional genomics, animal models, *in vivo* target validation, vaccination, therapy, hematology**

FIELD OF ACTIVITY

- ***In vivo*** **protein inactivation in any mammalian species (mouse, rat, rabbit, primates, etc.), therapeutic applications**

DESCRIPTION

- **Nokad** develops protein inactivation models leading to functional knock-out (KO) in all mammalian species (mouse, rat, rabbit, primates, etc.) and human disease models, with direct *in vivo* target validation within just 6 months. Nokad offers functional inactivation of proteins or *in vivo* target validation based on specific induction of an immune response using its proprietary technology. This innovative approach helps to break through the limitations imposed by genetic KO (mice only, lethal KO for some targets, a time-consuming process and lack of reversibility).
All functional and target validation studies can be performed in the model or the species of choice.

Nokad's technology enables a switch from one animal strain to another (or from one species to another) within just 2 months. Observed phenotypes are stable, reversible in a controlled way and equivalent to genetic KOs. This technology allows simultaneous inactivation of several proteins (multiple KO) and is appropriate for proteins arising from alternative splicing or from gene clusters. The technology enables rapid, serial analysis of a great number of targets.

Thanks to the NOKAD's in-house know-how and tools, the company can also generate antibodies against non-immunogenic or weakly immunogenic proteins for therapeutic, diagnostic or research programs. NOKAD also offers *in vivo* gene transfer studies and viral-based RNA interference services in a range of mammalian species (from the mouse to primates). In both functional inactivation and viral overexpression, phenotype studies can be specifically designed to suit customer needs.

Thanks to the discovery of a new functional pathway following the generation of a protein-KO-phenotype in both mice and rats, NOKAD is planning a clinical trial in 2009.

Novacyt

CEO Eric PELTIER **Commercial Director** Gérald ULRICH **Operations Director** Jean-Pierre CRINELLI

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Date of founding 11th July 2006

BUSINESS SECTOR

- Biomedicine/Healthcare (diagnostics)

FIELD OF ACTIVITY

- Novacyt develops and markets innovative solutions in medical cytology. The company's first product is a new generation of powerful, fully automated thin-layer cytology techniques for detecting cervical cancer

DESCRIPTION

- **Novacyt** aims to become a global player in cytological diagnosis by launching new-generation systems which are better suited to the market in terms of quality assurance and price. Novacyt owns 4 patent families with international coverage. The company has broad experience in manual techniques validated at the international level, with an FDA approval in particular. The company is working to automate its techniques in collaboration with the sector's leading companies and a network of academic researchers.

Novacyt's initial activity will consist in developing a novel, automated system dedicated to cervical cancer screening (smears and diagnosis). This is a new-generation, fully automated, thin-layer technique to which a diagnosis support system will be subsequently added.

In the longer term, Novacyt intends to extend its expertise to other types of cytological samples.

Novagali Pharma

NOVAGALI PHARMA

President of the board\ Jérôme MARTINEZ

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Date of founding\ 8th Aug. 2000

BUSINESS SECTOR

- Ophthalmology/Pharmaceuticals/Health & Life sciences

FIELD OF ACTIVITY

- Novagali Pharma is an emerging specialty pharmaceutical company focused on the development and commercialization of innovative ophthalmic products.
Novagali's unique technology (Novasorb™) enables the delivery of drugs into all segments of the eye - safely and with optimal comfort for the patient

DESCRIPTION

- Novagali's mission is to develop and commercialize innovative ophthalmic products to provide optimal therapeutic approach to treat the pathologies of all segments of the eye. The company has developed a broad pipeline of innovative 7 products addressing main ocular conditions as well as orphan diseases, thanks to its proprietary technology platforms Novasorb® and Eyeject®.
Most advanced products include Vekacia®, an orphan product for treatment of a severe ocular allergy, Cyclokat®, a product for the treatment of moderate-to-severe dry eye syndrome, and Cortiject® an ophthalmic injectable emulsion based on Eyeject® technology containing a corticosteroid prodrug for the treatment of Diabetic Macular Edema (DME).

For Cationorm®, a medical device for dry eye relief, Novagali has initiated the promotion to prescribers in France. In the United-States Cationorm® complies with the over-the-counter ("OTC") status.

Founded in 2000, Novagali Pharma has 50 employees.

ObeTherapy Biotechnology

CEO\ Itzik HAROSH

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Date of founding\ 19th Jan. 2000

BUSINESS SECTOR

- Therapeutic research

FIELD OF ACTIVITY

- Drug discovery for the treatment of obesity and type II diabetes

DESCRIPTION

- ObeTherapy Biotechnology's main goals are to:

- identify new target genes for the treatment of obesity and type II diabetes.
- validate these targets by establishing transgenic animal models.
- identify new chemical entities which can modulate the products of these target genes.
- develop these NCEs up to the preclinical phase.

The main scientific interest of the ObeTherapy Biotechnology project relates to the company's innovative approach to identifying new genes which can be used as therapeutic targets in the treatment of obesity. This approach goes against everything that is currently being done in this field: instead of looking at what genetically characterizes the obese phenotype, ObeTherapy Biotechnology is interested in the lean phenotype. This approach has made it possible to identify a family of genes implied in energy supply which are high-potential therapeutic targets because they are not redundant and are very specific. If a monogenic disease preventing energy consumption can be found in lean individuals, then the gene involved in this metabolic dysfunction must have a key role and is not compensated by other mechanisms. It therefore constitutes an ideal target for the treatment of obesity. Initially, this project consists in discovering and developing therapeutic molecules directed against a first drug target, which has already been validated and patented. Therapeutic molecules are identified by a novel high-throughput screening assay patented by ObeTherapy. The discovery of new therapeutic molecules and their development up to market launch are performed in close collaboration with the Zambon group (Milan, Italy). In parallel, a new gene candidate and inhibitors have also been recently identified. The establishment of an alliance for this second target is currently under discussion.

Oxalya

CEO\ Alban SCHMUTZ

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E-mail\ info@oxalya.com Web site\ www.oxalya.com

Date of founding\ May 2003

BUSINESS SECTOR

- **High-performance calculation (HPC) and numerical simulation service provider: Remote HPC on demand - Software - Solution deployment**

FIELD OF ACTIVITY

- **Oxalya provides a comprehensive range of scientific calculation and numerical simulation software and services for public- and private-sector R&D centers. The company is structured into 3 divisions: *Infrastructure, Software and HPC On Demand***

DESCRIPTION

- Since 2003, **Oxalya's** staff have developed in-depth know-how in the field of high-performance calculation and numerical simulation. This expertise enables the company to offer a specifically market-matched set of hardware and software technologies.

Oxalya offers the ***Virtual Nodes***© remote HPC service with secure web access and guaranteed cluster booking within 24 hours.

Oxalya also sells software:

Hurricane©: HPC cluster management software

VisuaPortal©: On-demand remote visualization resource management software for businesses

ComputePortal©: A multi-site and multi-scheduler submission manager

Oxalya also contributes to several major R&D projects - enabling researchers and engineers to focus on their research via the use of collaborative, easy-access, interoperable solutions.

Oxalya leads the Open Standards for Computing Oriented Systems consortium (www.oscos.org) and is also a member of the Carriocas consortium on high performance remote and collaborative visualization for researchers (www.carriocas.org).

PartnerChip

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Date of founding 25th Jan. 2005

BUSINESS SECTOR

- Biomedicine/Healthcare (diagnostics)

FIELD OF ACTIVITY

- High-density microarrays

DESCRIPTION

- As an Affymetrix Official Service Provider, **PartnerChip** offers state-of-the art genomics tools and analyses. PartnerChip enables scientists to monitor largescale genome mapping in order to:
- quantitate known and annotated transcripts.
- understand complex biological mechanisms.
- identify new transcriptional elements.
- generate signatures and profiles.

PartnerChip also provides researchers with genotyping products for:
- performing whole-genome association studies (with up to 500,000 SNPs).
- detecting heterozygosity loss (Agilent, Nimblegen chips).
- measuring linkage disequilibrium.
- resequencing human mitochondrial genomes.

PartnerChip offers customer services such as: experimental design support, target quality control, target hybridization on GeneChip arrays, array processing & scanning, raw data production and data analysis including normalization, comparison, statistical studies, clustering, pathway involvement and data mining.

Since 2007, PartnerChip develops its own chips for diagnostic purpose (contract of Official Service Provider with Febit).

PartnerChip is involved in the Medicen competitiveness cluster (Biotype project) and is partner in 4 European projects (Eurolron, Proteine Storage, PrédiCancer, NMD-Chip).

Phenopups

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BUSINESS SECTOR

- Biomedicine/Healthcare

FIELD OF ACTIVITY

- Phenopups is a service platform based on the phenotyping of newborn rodent pups

DESCRIPTION

- Our platform for exploration of the newborn rodent is the fruit of strong technological innovation and scientific insight: this unique system enables non-invasive exploration of the newborn rat or mice (from birth onwards) in a controlled environment in terms of gas composition, temperature and humidity.

The generated data relate to:

- breathing: frequency, amplitude, tidal volume and apnea via barometric whole-body flow plethysmography
- electrocardiogram: frequency
- body temperature
- activity
- ultrasonic vocalizations (USV)
- standardized performance of Fox-battery tests:
  - righting reflex
  - negative geotaxis
  - cliff drop aversion
- Pavlovian conditioning methods to assess learning and memory.

Our service offering includes:

- phenotyping assessment of animal models
- comparative tests of the effects of an API on the monitored variables listed above
- monitoring the response to common stimuli (hypoxia, hypercapnia, temperature variations, etc.)

This activity is based on years of acknowledged technical and biological expertise and extensive automation.

Physikron

CEO Patrick VAYN

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Date of founding 22nd June 2005

BUSINESS SECTOR

- Instrumentation

FIELD OF ACTIVITY

- Development of new solutions in mass spectrometry (MS)

DESCRIPTION

- Expert in instrumentation, **Physikron** develops new processes which are applicable to MS-MS. They are based on concepts coming from particle physics. These patented processes allow the simultaneous production of MS-MS spectra without primary mass selection, whatever the number of primary masses. Instruments using Physikron's processes can achieve increased sensitivity and throughput, and decreased sample consumption in MS-MS. Indeed, all the dissociated fragments of all primary masses are detected simultaneously in one acquisition in the form of a single three-dimensional spectrum, so that the throughput is multiplied by the number of different primary masses present in the analyzed sample. This increase in throughput is especially important for liquid chromatography (LC) coupled systems.

Added value: speed, sensitivity, analysis of complex mixtures and drastic reduction of sample consumption.

Application to complex samples or high-throughput analysis: proteomics, medical diagnostics, supramolecular chemistry, etc.

PARTNERSHIPS

- Physikron is looking for co-development and/or licensing partners (MS manufacturers and firms active in the medical diagnostics, security and environmental markets).

Sanofi-Aventis Evry Genetics Center

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BUSINESS SECTOR

- Pharmaceuticals/Healthcare

FIELD OF ACTIVITY

- Human genetics, epigenetics

DESCRIPTION

- Identification, annotation and validation of targets in Sanofi -Aventis's various therapeutic areas.
- Identification of genetic markers of interest for clinical development
- Development of screening tests
- Genetic support for corporate research projects.

Sebia

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Date of founding\ October 1967

BUSINESS SECTOR

- Biomedecine/Healthcare

FIELD OF ACTIVITY

- Biological tests applied to diagnosis

DESCRIPTION

- SEBIA sells innovative laboratory instruments and reagents based on electrophoresis technology. Electrophoresis enables the separation of molecules in a medium under the influence of an electric field. One of the most important of the technique's many applications concerns the analysis of proteins present in serum or other biological fluids. Hence, electrophoresis is especially useful in helping to diagnose cancer-related pathologies, searching for immune system anomalies and detecting abnormal hemoglobin species.

Since 2001, SEBIA has continually innovated in this field - notably by contributing to the development of capillary electrophoresis, which allows fully automated testing. The range of available analyses is constantly expanding.

Serial Genetics

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Date of founding 3rd Nov. 2003

BUSINESS SECTOR

- Biomedicine/Healthcare/Agriculture

FIELD OF ACTIVITY

- Molecular diagnostics

DESCRIPTION

- Serial Genetics develops and commercializes molecular diagnostic kits:
- medical diagnostic kits for cancer, pharmacogenetics, microbiology and hereditary diseases (includes the CE mark)
- mutation diagnostic kits for industry
- organism identification kits.

All kits are based on our proprietary “HairLoop” probe technology, with its powerful mutation analysis capabilities (SNP, Ins, Del, rearrangement, LOH) and a very easy to use process.

Serial Genetics is developing a line of molecular testing kits for pharmacogenetics (warfarin metabolisation, 5FU metabolisation), cancer (bladder cancer) and genetic diseases (HairLoop CF™ a kit for analysis of 49 mutations of cystic fibrosis, hemochromatosis and beta thalassemia) via academic and private-sector partnerships. We also provide on-demand kits for mutation analysis in pharmacogenomics studies and species identification. Our customers are major pharmaceutical companies, public research institutions and hospitals.

The company also commercializes ENDO-1 for mutation discovery and TILLING®. Serial Genetics has an exclusive license from INRA/Génoplante Valor to produce and commercialize this new, genetically engineered endonuclease.

Sigma-Aldrich Chimie

SIGMA-ALDRICH™

Operations manager Khalil ARAR

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Date of founding 8th March 2002

BUSINESS SECTOR

- Biotechnology

FIELD OF ACTIVITY

- Research and production fully dedicated to the manufacture of custom oligonucleotides

DESCRIPTION

- Sigma-Proligo provides researchers throughout the world with high-quality oligonucleotides, thanks to a high throughput synthesis platform which enables it to deliver high-quality products to very short deadlines. With 65 employees (most of whom are researchers), Sigma-Proligo has one of the most modern production centers in the group. Thanks to its Evry-based R&D team, this site is expected to become a center of excellence within the Sigma-Aldrich group. In addition, our ambition is to develop (in conjunction with a computing group also based in Evry) methods and protocols that will be deployed at all the other Sigma-Aldrich oligonucleotide production sites.

Sigma-Proligo has remarkable knowledge in the fields of DNA synthesis, siRNA, long amino oligos, quantitative PCR probes and specialized products such as LNAs. The Sigma-Proligo R&D department concurrently develops new protocols and methods in the oligonucleotide field. Sigma-Proligo is also one of four companies with an MIT license for siRNAs.

Sinovia

SINOVIA

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Date of founding\ 21st Apr. 1998

BUSINESS SECTOR

- Bioinformatics/IT/Data processing

FIELD OF ACTIVITY

- Industrial IT networks

DESCRIPTION

- For the last ten years, SINOVIA has been designing innovative technologies for infrastructure supervision. Our clients have chosen SINOVIA in order to benefit from a unique, powerful solution which federates multi-technique, multi-service, multi-manufacturer facilities. This approach perfectly matches the expectations and constraints of businesses and communities in terms of security, sustainable development, cost optimization and shared use.

SINOVIA's solutions not only ensure optimal management of potential threats (natural disasters, malevolent acts, etc.) but also enable centralized, intelligent supervision of cities, sites or buildings. SINOVIA has the following product offerings: CCTV networks, intelligent city/street lighting management systems, infrastructure supervision and monitoring (intrusion detection, fire safety, alarm control, energy consumption, etc.), mass notification alerts, and infrastructure/equipment interoperability.

Sphergen

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Date of founding 1st Jul. 2004

BUSINESS SECTOR

- Drug delivery

FIELD OF ACTIVITY

- Non-viral gene therapy

DESCRIPTION

- **Sphergen** is working on the elaboration of innovative, non-viral gene transfer processes which will enable the design of veterinary drugs for the treatment of currently incurable diseases. This technology could be used for target validation purposes by R&D departments in major pharmaceutical companies.

- In addition, Sphergen collaborates to proof-of-concepts studies concerning the production by genetic immunization of antisera with antitoxin or antiviral activity for passive immunization therapy.

Statlife

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Date of founding\ 22nd Apr. 2004

BUSINESS SECTOR

- Healthcare, Bioinformatics

FIELD OF ACTIVITY

- Predictive and preventive medicine

DESCRIPTION

- Statlife develops software for evaluating the individual risks of major illnesses and the effects on these illnesses of various prevention strategies: changes in diet, tobacco use, treatments (hormone replacement therapy, for example). Risk scores are calculated from prospective cohorts of between 10,000 and 100,000 individuals monitored over 8 to 15 years. These scores already include environmental and treatment-related factors and will soon benefit from integration of genetic and proteomic data. Our clients are big pharma and health insurance companies.

TcLand Expression

Chairman and CEO Alain HURIEZ, MD

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Date of founding 28th Oct. 2002

BUSINESS SECTOR

- Biomarkers – Immunomonitoring (CIMNA: Center for Immunomonitoring Nantes Atlantic)

FIELD OF ACTIVITY

- Biotech company specializing in the development of biomarkers for personalized medicine in transplantation and autoimmune diseases. Development of companion diagnostic products
- Via the CIMNA, TcLand Expression can also provide its academic and industrial partners with access to an integrated immunomonitoring service platform

DESCRIPTION

Biomarkers, immunomonitoring and predictive tools in transplantation and autoimmune diseases:

• Kidney Score: transcriptomic and proteomic biomarkers for personalized medicine in the follow-up of kidney transplant patients (identification of chronic rejection or a good safety profile)

• Transcriptomic signatures under development for monitoring Crohn's disease.

• Various immunomonitoring technologies:
- TcLandscape®, a breakthrough technology for selectively identifying the T lymphocytes involved in an immune response
- BcLandscape®, for monitoring B lymphocytes
- Cytokine assays
- Tetramers assays
- Elispot assays

Applications: disease/response monitoring in patients suffering from AIDS and/or treated with immunotherapeutics:

• disease immune signatures, prediction of disease progression, personalized treatment.
• identification/evaluation of new therapeutic molecules
• follow-up of preclinical/clinical trials
• characterization of the response to new drugs, biologicals or vaccines
• development of companion diagnostic products.

Tech Innovation

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Date of founding\ 2nd June 2000

BUSINESS SECTOR

- Medical devices (prostheses and orthoses)

FIELD OF ACTIVITY

- Research and development in orthopedics: upper limb prostheses (elbow and hand) and orthoses

DESCRIPTION

- Design, production and marketing of upper limb prostheses (elbow and hand) and hi-tech orthoses (myoelectric prostheses). The sequence of the prosthesis' movements is controlled by myoelectric sensors positioned on the patient's skin. These sensors detect a muscle contraction signal and make it possible to control three distinct movements (opening/closure of the hand, wrist rotation and elbow flexion/extension).

The company has been producing a myoelectric elbow since June 2005. A myoelectric hand will be marketed in mid 2008. The company also develops small medical accessories for patient assistance, in collaboration with the AFM (the French Muscular Dystrophy Association).

Texcell

CEO Bernard PLICHON

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Date of founding 28th Jan. 2003

BUSINESS SECTOR

- **Experimental support**

FIELD OF ACTIVITY

- **CSO/Biosafety testing/Virus & prion validation/Immunoprofiling/Healthcare**

DESCRIPTION

- **Texcell** is a world-renowned company that provides biosafety and immunology services in full compliance with GLP and GMP standards.

Since 1987 and thanks to our in-depth experience of providing biosafety testing and virus validation studies, we have provided support to a large number of products now licensed by the FDA, the EMEA and the MHW: recombinant proteins, monoclonal antibodies, vaccines, gene therapy products, medical devices and other products of human or animal origin, such as bloodderived products, heparin, hyaluronic acid and collagen.

Texcell is also your central lab for pre-clinical and clinical trials. We offer a dedicated technology platform in immunology, together with comprehensive assay development (optimization and validation) under GLP conditions for monitoring humoral or cell-based immune responses.

Viral safety testing: a comprehensive offering for cell bank characterization and batch release.

Virus validation: evaluation of manufacturing process steps for their ability to remove and/or inactivate viruses (more than 30)/prions.

Immunoprofiling: Development and validation of assays to follow up the humoral and cell-based immune response during pre-clinical studies and clinical trials (ELISA, cytometry, seroneutralisation, HIA, bioassays).

Theraclion

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Date of founding\ 3rd Aug. 2004

BUSINESS SECTOR

- Therapeutic medical equipment

FIELD OF ACTIVITY

- Design & marketing of a new, non-invasive tissue treatment technique using high-intensity, focused ultrasound (HIFU). The first application is the treatment of thyroid nodules

DESCRIPTION

- By using an extracorporeal device to produce a localized thermal and mechanical effect, this technique produces tissue necrosis inside a targeted, accurately-delimited volume. Hence, the non-invasive and ambulatory technique (requiring no or only local anesthesia) could be used to replace surgical acts in certain pathologies.

The first device has been designed for the treatment of thyroid nodules. Clinical trials started in 2003 and have enabled safety and accuracy validations. The clinical feasibility trials enabled fine-tuning of the treatment parameters and better knowledge of the device's routine technical efficiency. A pilot clinical trial started in 2006 - initially as a single center study. In parallel, the device has been industrialized. Theraclion is also investigating the use of HIFU technology in the ablation of pathological parathyroid glands. In addition to maxillofacial applications, Theraclion is studying the extension of the HIFU technique to other clinical areas such as the use of the HIFU technology for the restoration of pathological changes in the vein wall which, if not treated, generally lead to the development of varicose veins.

Vaxon Biotech

Chairman Pierre TEILLAC **CEO** François VALLET **CSO** Kostas KOSMATOPOULOS

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Date of founding 8yh Jan. 2004

BUSINESS SECTOR

- Biomedicine/Healthcare (therapeutic research)

FIELD OF ACTIVITY

- Vaxon Biotech is a product-driven biopharmaceutical company focusing on the discovery and development of innovative vaccines for the treatment of malignancies, including prostate, lung, breast and colon cancer
- Vaxon Biotech is the first entrant to make vaccines with optimized cryptic peptides
- The most advanced products (Vx-001 and Vx-006) are novel treatments for solid tumors. Vx-001 that has been granted orphan status from EMEA in 2007 achieved a phase I/II clinical trial and showed an excellent tolerance and immune response profile. Vx-001 is due to enter a pivotal clinical trial for Non Small Cell Lung Cancer (NSCLC) in 2008. Vx-006 should enter phase I/II clinical development, for prostate cancer,
- Vaxon Biotech develops a pipeline of products covering major HLA superfamilies for the treatment of most cancer patients
- Vaxon Biotech has secured a patented portfolio of products and methods in-licensed from IGR/INSERM and generated by the founding scientist's original research work

DESCRIPTION

- The company is based on an original discovery made by Dr. Kostas Kosmatopoulos and his team: optimized cryptic peptides. Vaxon Biotech's vaccines are intended to treat existing cancers (therapeutic vaccines) by stimulating the immune system to recognize and attack cancer cells without harming normal cells. These vaccines target antigens which are overexpressed in tumors but present in very low quantities in normal tissues. Vaxon Biotech's proprietary products can be used for cell therapy, directly admnistered in combination with adjuvants and cytokines or integrated into specific delivery vectors.

The Viral Vector Production Center

Project manager\ Alain MÉTAYER
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BUSINESS SECTOR

- Biomedicine/Healthcare

FIELD OF ACTIVITY

- GMP production of gene therapy products

DESCRIPTION

The Gamma project (led by the Généthon lab) concerns the second phase of biomanufacturing development - the first phase corresponds to the existing Gene and Cell Therapy Unit. The Unit's modest production capacity prevents it from manufacturing the Phase II batches needed in the development of biologics generated in Généthon and AFM (the French Muscular Dystrophy Association) research projects. In Europe, few industrial structures are able to deal with the required scale and specific features of gene therapy products.

This Center will bridge the gap between the existing lab-scale GMP production and industrial GMP manufacturing. The goal is to receive accreditation as a pharmaceutical establishment and to implement the requisite operating facilities.
The centre will produce plasmids as well as AAV, MLV and lentiviral vectors.

The 3000-square-meter facility is scheduled to begin GMP production of clinical batches in 2010, after 3 years of testing, analysis, qualification and validation.

Viroxis

President Anne-Catherine JOUANNEAU **Chairman of the Scientific Council** Thierry HEIDMANN

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Date of founding December 2005

BUSINESS SECTOR

- New anti viral therapeutic and prophylactic vaccines

FIELD OF ACTIVITY

- Vaccines against human and animal retroviruses, notably HIV

DESCRIPTION

- **Viroxis** develops new prophylactic and therapeutic vaccine approaches against a variety of viruses, including HIV (responsible for AIDS). These innovative vaccines are based on a fundamental discovery made by Dr Thierry Heidmann and his team in the lab UMR8122 CNRS/IGR/PARIS XI at the renowned Institute Gustave Roussy (Villejuif). They unravelled a new immunosuppressive mechanism that enables the virus to invade its host and then developed a finely tuned method to neutralize this property.

The company's main focus is on an HIV vaccine but other programs dedicated to other human viruses (Herpes, Ebola…) and oncology research are being developed, with very promising preliminary results. Several proprietary or exclusively licensed patents protect the discovery and its applications.

Visiorel

Project leader/Founder Francine BEHAR-COHEN
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Date of founding 2008

BUSINESS SECTOR

- **Biomedicine / Healthcare (active compound delivery).**

Non-viral ocular gene therapy for the intra-ocular production of therapeutic proteins

FIELD OF ACTIVITY

- **Development of a therapeutic solution for eye diseases (AMD, retinitis pigmentosa, etc.)**

DESCRIPTION

- **Therapeutic solutions:** protein therapy based on plasmid-gene drug with a delivery device for the anterior and posterior chambers of the eye.

Development of a device suited to the human eye. Validation of the proof of concept with a standardized prototype which will subsequently meet regulatory requirements.

Watchfrog

President Gregory LEMKINE

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Date of founding 4th Nov. 2005

BUSINESS SECTOR

- Pharmaceuticals/Environment

FIELD OF ACTIVITY

- **WatchFrog designs, produces and markets solutions for detecting and identifying the *in vivo* effects of pharmaceutical, cosmetic and chemical substances on whole vertebrates.**

DESCRIPTION

- **WatchFrog's** technology reveals the potential of new molecules by rapid *in vivo* testing using specifically-designed amphibian models. This test methodology combines the biological pertinence of in vivo analysis with the flexibility of ***in vitro*** tools.

WatchFrog's adaptive technology delivers cost-effective predictability tests for human healthcare. The new generation of tests offered by WatchFrog is allied to the development of amphibian models that "light up" (through emission of fluorescence) when a biological function is activated.

Mesuring millimeters, our small model organisms are compatible with automatized reading tools, which allows:

- **screen therapeutic substances** (at the whole organism or specific tissue level)
- Eco-toxicological screening of chemicals for risk assessment
- Identification of endocrine disrupting chemicals in line with future OECD regulations
- Real-time monitoring of the presence of pollutants in the environment (e.g. drinking water, lake/river water, ground water runoff, effluent, sludge, industrial waste, etc...).

Wittycell

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Date of founding\ Aug. 2005

BUSINESS SECTOR

- Biomedicine/Healthcare (drug delivery)

FIELD OF ACTIVITY

- Development of vaccine adjuvants

DESCRIPTION

- **Wittycell** is a Biotechnology company focusing on the development of new adjuvants using its proprietary technology, to optimize new therapeutic and prophylactic vaccines in field of oncology and infectious disease. Adjuvants play a central role in vaccination, enhancing the magnitude, the delay and the duration of immune responses. Vaccines containing adjuvants can produce greater protection within a shorter treatment time. Wittycell currently has two types of products in pre-clinical development, using its two proprietary technology platforms:

- **Immunomodulator adjuvants** based on NKT agonist glycolipids, for therapeutic and prophylactic vaccines against infectious diseases and cancer.
- **Antigen delivery systems** based on dendritic cells, for therapeutic vaccines against cancer.

Wittycell S.A.S has strong intellectual property position with major partnership including the Jean Godinot Institute (France), the Scripps Research Institute (USA), the University of Chicago (USA) and the Brigham Young University (USA)

The potential market encompasses over 90% of the total new vaccine market which represent over $18 bn market potential. The first 3 immunomodulators leads are in preclinical development.

XenTech

President & CSO Jean-Gabriel JUDDE

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Date of founding 21st April 2004

BUSINESS SECTOR

- **Biomedicine (experimental therapeutics)**

FIELD OF ACTIVITY

- **Development of a preclinical platform in oncology**

DESCRIPTION

- XenTech is a spin-off from Dr Marie-France Poupon's Laboratory of Preclinical Investigations at the Institut Curie (Paris).

XenTech maintains a large panel (over 120) of human tumor xenografts directly established from patients, representing the major solid tumor types (breast, colon, lung and prostate) as well as other less common malignancies (ovary, brain, pancreatic and soft tissue tumors).

XenTech offers its platform for research and fee-for-service collaborations in preclinical oncology:

- Predictive tolerance and efficacy studies in large panels of tumor xenografts which are representative of clinical populations.
- *In vivo* imaging in bioluminescence, fluorescence, 2D, 3D and ultrasound Doppler echography.
- Complementary *ex vivo* assays for higher throughput initial screens: cell line- and tumor-based assays for proliferation, apoptosis and colony forming tumor cell studies.
- High-content tumor molecular databases allowing model selection, proof-of-concept studies and the identification of response markers and novel therapeutic targets.