

Nano2Life Newsletter December 2006

Dear reader,

Welcome to another issue of the Nano2Life Newsletter, which will give you latest information on past and future activities of our network.

Happy reading

The editors

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News and activities

N2L Second Annual Meeting Sitges, Spain, March 2006

Nano2Life's second annual meeting took place in Sitges, Barcelona from the 27th to the 29th of March, 2006. The meeting provided once again an informal framework for networking and the presentation of state-of-the-art research in nanobiotechnology. More than 150 researchers from 23 partner institutes and universities throughout Europe as well as relevant companies and SMEs presented their latest ideas, participated in cutting-edge tutorials as well as in thematic workshops. The second annual meeting provided the opportunity for all stakeholders to share success stories and celebrate their achievements with the growing N2L community.

The expert tutorial session counting with the participation of a multidisciplinary audience from both academia and industry preceded the formal inauguration ceremony in the presence of representatives of the Catalan government and the Barcelona Science Park. The themes presented at this meeting were "Stem cells and their possible use", "Nanopatterning for life sciences" and "Nanofluidics and lab-on-chip". The positive feedback generated by the N2L series of expert tutorials has prompted the consideration of customized cross-disciplinary courses for industrial and academic partners.

Once again the N2L annual meeting showcased the collaborative effort of its researchers in the development and progress of the joint strategic research projects, launched at the N2L scientific meeting at the University of Twente a little more than six months ago. These projects address key current issues in fields as diverse as drug delivery, early cancer diagnostics and security. The six intersection projects presented to the N2L community and discussed during parallel sessions were: "Cell Surface interactions", "Biochip for toxicity testing in the environment", "Lab-on-chip for cytotoxicity testing", "Devices for drug delivery", "Optic nerve regeneration" and "Converging technologies for neuronal applications". The implementation of these intersection projects integrate one step further the expertise and resources within the N2L research community.

The meeting also offered the possibility for companies, ranging from multinationals to SMEs and spin-offs, to mingle with researchers during the scientific sessions. The SME session allowed scientists from N2L to become familiar with research carried out in four partner companies: Diagnoswiss, Silicon Biosystems, Regulon and GenOptics. Moreover, companies participated actively in the selection, during the permanent bazaar/poster session, of the candidates for the awards for best poster and young scientist which were presented during the gala dinner. The number of N2L industrial partners is growing steadily. To date more than 20 joint projects have been generated through partnership with N2L.

In addition to research, education and technology transfer, N2L directs much of its efforts to societal, legal and ethical issues. The thematic workshops on ethics, intellectual property and gender with top European experts also counted with ample response reflecting the holistic vision of the N2L community.

Future plans regarding the seventh framework programme (FP7) were presented by Cecilia Hernandez of the NanoMedicine Platform. Moving towards the integration of its scientific resources, Europe relies on the vision and efforts of all its dedicated scientists to reach its goal. The Nano2Life community emerges as a key player in achieving this objective.

We would like to thank all the participants for their enthusiasm and active collaboration which made this second annual meeting a success. The next N2L research meeting will be in Cork, September 5-7, 2006 and we are looking forward to meeting you there!

You can find more information about this meeting, N2L in general, the strategic and intersection research projects, and current and future N2L events in this newsletter as well as on www.nano2life.org. All N2L tutorials are taped and are available for partner institutions and companies. Please don't hesitate to contact us with your questions and/or suggestions.

Nano2life Summer school ***Methods in Micro-, Nanotechnology and Nanobiotechnology***

This specially designed Nano2life Summer school was held the first time between June 26 and July 7, 2006 in the National Center of Scientific Research "Demokritos", Athens, Greece. The institutes of *Microelectronics, Physical Chemistry, Material Science and Radioisotopes and Radiodiagnostic Products* of Demokritos, as well as the *Foundation for Biomedical Research of the Academy of Athens* collaborated with N2L scientist to organize the event as part of the integrated N2L curriculum.

19 participants from several European institutes (16 from Nano2Life) attended the summer school. The school program included lectures (45 hours) and hands-on experiments (30 hours) covered in three sections: (i) Principles of biochemistry, cell biology, physics and microelectronics, (ii) Core Nanobiotechnology methods and practices, and (iii) : Towards Integrated Nanobiotechnology systems.

Important topics such as : micro and nano-fabrication science and technology, nanomaterials for bio-applications, characterization, imaging molecular and cellular biology and applications, were addressed.



The instructors and lecturers were scientists from the organising institutes ([programm](#)) and the N2L network. In addition, lecturers other academic institutes and the industry were invited.

The rich program, the blue Greek sky and the excellent environment, all contributed to the integration of the network, the building of a young scientist N2L network, and increased skills and knowledge not only in the field of science, but also in culture and history.

Nano2Life Scientific Meeting, 5th-7th September, Cork

The Irish N2L partner, Tyndall National Institute, at Cork, hosted the annual scientific meeting for 2006. Attended by 130 participants from 23 institutes, the scientific focus was on the work of the now established SRP groups and, of course, the intersection projects. The group members met with invited guests from companies as potential cooperation partners and conferred about new research approaches and next steps. Lively discussions accompanied the tutorial sessions as well as the elevator pitches dealing with the poster contents during the coffee breaks. Moreover, at the bazaar Nano2Life members were provided with the hottest news and info material and after the daily work was done everybody could relax during the evenings in the frame of a carefully selected social program.



EoN – European Observatory on NanoBiotech – Judgements of scientific articles by experts

European Observatory on NanoBiotechnology
EON



EoN is intended to be a continuous strategic watch for rising weak signals in Nanobiotechnology: breakthroughs, emerging trends, main achievements: It is the collective work of Nano2Life scientists.

A group of experts is constituted on the model of the French OMNT (Observatoire des Micro et NanoTechnologies) joint initiative between CEA and CNRS. Every 6 months, OMNT meetings are joint meetings with EON. They write collectively a commented and critical analysis of the most outstanding publications, patents, technical achievements, announcements at international conferences. Every 6 months, EON releases a report of all contributions, which have been discussed in the group at EON meeting.

Conticanet – Promising First Contact with another European NoE

At the Cork Scientific meeting Professor Jean-Yves Blay introduced the recently founded Network of Excellence Conticanet. His talk was fascinating and simultaneously disconcerting. Connective tissue tumors are very rare and

obviously very difficult in diagnosis and treatment because there might be more than fifty subtypes, possibly all to be treated differently. The coordinator of Nano2Life, Patrick Boisseau, and the “cancer-related” SRP leaders, Juergen Schnekenburger and Rafi Korenstein, had first, very promising contacts during a meeting with members of Conticanet. Ideas for common future work like joint application to FP7 calls were exchanged there. This cooperation between Nano2Life and CONTICANET is a nice example of bringing clinicians and biologists towards micro and nanotechnologies.

Comments of the winner of the Best N2L Young Scientist Award N2L, the scientific bazaar along the European streets

My first encounter with N2L was in Autrans at the kick-off meeting. This was also my first experience in a network-of-excellence and it was difficult to assess such an event. Honestly, I was rather confused about the basic principles of N2L. What was really meant by the magic word “networking” and what was my role going to be in the network?

Today, after more than two years of intense experiences in Stresa, Barcelona, Münster, Twente and Sitges I consider N2L as one of the natural “working-habitats” of my research. A working habitat may be a physical space, such as my lab, but also a multilateral system of relationships and collaborations. In other words, a platform where exchange of scientific information takes place and a virtual workshop where my scientific results get more fruitful.

From my point of view as a young researcher in N2L, the networking is a natural way of doing my job. The enthusiasm about the results and the desire of improving them, force us to be connected continuously with our colleagues. We have the advantage not to be engaged in administrative duties and political affairs. However, by evaluating collaborations only in view of the benefit to our research, we make the relationships easier and friendlier, like in the bazaars.

I am glad to be a member of N2L, the scientific bazaar along the European streets.

Andrea Valsesia, JRC Ispra, Italy

Interview with Blanca Jordan from Atos Origin

1. Could you describe briefly your company’s sector of activity? Your main products/processes?

Atos Origin is an international information technology services company. Its business is turning client vision into results through the application of consulting, systems integration and managed operations. The company’s annual revenues are more than 5 billion EUR and it employs over 46,000 people in 40 countries. Atos Origin is the Worldwide Information Technology Partner for the Olympic Games and has a client base of international blue-chip companies across all sectors. Atos Origin is quoted on the Paris Eurolist Market and trades as Atos Origin, Atos Euronext, Atos Worldline and Atos Consulting.

Atos Origin in Spain has about 5,000 people distributed in several cities. Areas of application are Business, Public Administration, Industry, and Communications. The general strategy of the Company concentrates on IT consulting, systems integration and outsourcing. It derives from an excellent customer service, which is based on a key success factor in the domains where Atos Origin operates: the technological dimension.

Atos Research and Innovation (ARI) is active in a number of leading edge RTD and close to market projects like eTEN and is in charge of studying and promoting innovative technologies of interest for the other divisions of the Company. The area is a leading partner in a number of projects indicating significant project management capability and pan-European collaborative experience. This segment (including the Consultancy Division) also delivers consulting, system integration and managed services directly to final customers.

In the research area, ARI concentrates on the realisation of international projects, combining the most up-to-date technological developments with a high awareness of the human factors (education sciences, disability-related issues, cultural diversity, multi-linguality). The construction of the Information Society, towards which our continent is evolving, requires the seamless combination of both technological and human aspects. Having this in mind, this multi-disciplinary and multicultural team is composed of experts in engineering, education science, psychology, philology, linguistics, environment, biotechnology, telecommunications, computer sciences and interface design, who apply all their knowledge to the achievement of the most balanced solutions.

ARI has achieved a relevant competence in the European Union due to the diverse international projects in which the former companies Sema Group and SchlumbergerSema have been involved since 1989. Over these years, a strong partnership with several public and private institutions from all European Countries has been consolidated.

The Biotechnologies & Healthcare Unit specialises in healthcare systems and applications, as well as knowledge management. The main fields of activity are medical imaging, decision-support systems, medical knowledge management system and remote patient-monitoring systems.

Atos Origin Spain is a founding member of the European Technology Platform NESSI (Networked European and Service Initiative), and it leads the NESSI e-Health group that is aiming to define the Strategic Research Agenda for the e-Health field for the coming 7th Framework Program of the European Commission.

2. How has the application of nanotechnology to life sciences affected your business?

Nanotechnology applications are one of our future business lines; therefore, at this moment we have not yet started the provision of applications or services in this area. However, it has opened a new research field within our company, especially in those areas and applications where software developments are required for the completion of the services offered. We firmly believe that the collaborations in this area may produce new applications and services that can enlarge our company portfolio, especially in the application of nano- and biotechnology to the clinical scenario.

3. Participation in N2L:

- *How did you hear of N2L?*
- *Since when are you a N2L member?*
- *Joint project with N2L?*

We heard about Nano2Life through one of our partners in a European research and development project (CEA-LETI; Project LOCCANDIA). Then, we attended a general meeting of the network of excellence that was held in Sitges (Spain). We are not members of N2L and we do not collaborate in any project related to it, however, we work with some of the partners related to it through other projects.

4. What are in your opinion the benefits of collaborating with N2L? Network, projects, possibilities of collaboration/current collaboration

We think that N2L is a very interesting opportunity for Atos Origin Spain to establish new collaborations within other areas. Atos Origin Spain has no experience in the specific research area of nanotechnology but it is a very strong partner within the research arena in the European Commission co-funded projects. We can cover some points that are not that frequent in the scientific world such as bio informatics, software implementation and integration and project coordination among others.

5. What are the main obstacles to the collaboration of industry with academia? How do you think these obstacles could be overcome?

During these years of collaboration with academia, we have identified two main obstacles:

- Motivation. The motivation present in academia and enterprises is not the same. While enterprises' motivation is focused on doing business and earning money (exploitation of results), the main academia's motivation is the acquisition of knowledge and the new findings by themselves.
- Distance between academia and industry. The existing distance between academia and industry is reflected in the gap that exists between the research activities in the different institutions. In most of the cases, the academia is researching in very advanced fields while industry even not knows about those areas. In some cases, political, regulatory or economical barriers that the industry may help overcome motivate the gap.

6. How soon will nanobiotechnology fulfil its promises?

We believe that results may be transferred to the commercial arena in the next few years, although the complete fulfilment of expectations and the disruptive changes on business and our everyday lives may take between 10 and 20 years.

7. Are you participating in other European programs:

As you may see in our description, ATOS Spain has a very wide experience in European Projects. We have been mainly involved in projects within the IST, FET, eTEN and Life Sciences programmes. We are not only active in the eHealth area but also in others such as eLearning, Software and Services, Grid technologies, etc. We are active in the research and the exploitation areas since 1989.

8. What are in your opinion the principal challenges for an innovation-based Europe?

There are different challenges for the different research areas. However, there are also sets of common elements that come from different fields that may be considered challenges to be overcome. Some of these elements are:

- Understanding between industry and academia. As it was mentioned previously, the relation between these two sectors should be closer in order to improve the use and exploitation of results.
- Creation of excellence. Another important challenge is the creation and maintenance of excellence by aggregating research groups and exploiting synergies (as in Nano2Life).
- Funding. It is important that gradually the European Union devotes a greater amount of public funding to research activities. This must, of course, be coupled with the first point, through which exploitation and sustainability are achieved.
- Legal barriers. Member States and the EU must identify legal barriers that difficult the achievement of an innovation-based Europe. For example, eliminating obstacles for the creation of new companies, revising possibly obsolete regulations that hinder the deployment of innovative technologies (although maintaining key aspects, like the European emphasis on guaranteeing the protection of the consumer and the citizen).
- Social acceptance. Another important challenge does not come from the technology field but from the social field. In order to reach an innovation-based Europe, it is necessary that citizens (that are the receptors of the technology applications) are aware of the possibilities and accept the technologies.

About Nano2Life

Nano2Life Resources and Mobility Mobility Programme Update

There has been increase of over 200% in the usage of the mobility programme since it commenced in 2004. The amount of funding, which has been approved since 2004 has increased from just under €8000 to over €26,000, an increase of over 3 fold. It is anticipated that more partners will avail of this opportunity to secure funding to set up new collaborations, to access expertise and resources of partner institutes and to promote stronger co-operation and integration within the N2L members, especially with the implementation of the strategic research programmes within WP7 gaining momentum. There has been 25 proposals to date with over €40,000 in funding awarded.

Table 1. Progress of mobility programme

Year	2004	2005	2006
No of Applications	6	13	6 so far!!
Amount Awarded	< €8,000	< €30,000	> €6,000

The programme will continue to support activities within other WP's, examples of which include providing the SRPTs and SRPAs with an opportunity to access funds to cover costs for meetings, enable partners to participate in the PROGRESS course and it will continue to provide financial support to students to attend summer schools and workshops organised by N2L partners.

Application forms are available either through the internal N2L website or by request from **Dr. Eric Moore** at nano2life@tyndall.ie. Further information on the mobility programme can be obtained on the website.

Awards



N2L prize winners at the annual meeting in Barcelona
Andrea Valsesia (left) and Benjamin Corgier (right)

This year two prizes were awarded at the second N2L Annual Meeting in Barcelona, March 2006. These awards were

Best Publication by N2L Young Scientist 2005
Winner: Benjamin Corgier – CNRS

Best N2L Young Scientist 2005
Winner: Andrea Valsesia – JRC

As these prizes will be an annual event, they will be awarded also at the next N2L annual meeting.

The mobility programme now offers a grant to cover the registration fee for full N2L members to participate in the PROGRESS course. 5 grants have been awarded to members to attend the first course to be held this year in Lund, 15th-18th May. This grant works in exactly the same way as the N2L summer school/workshop scholarship in that only registration fees are funded and only full members are eligible to apply.

Strategy and Foresight - Nanobiotechnology is ready to tackle the most challenging questions for the health of the European citizen

In order to better understand to which societal needs nanobiotechnology could answer to in the next 10 years, Nano2Life foresight experts have organised “prospective workshops” with end users, industrial companies and scientists from all Europe. In 2006, 2 workshops have been held: one on bioanalytics and instrumentation for life science research and the other on regenerative medicine. In both application fields, we have confirmed that many challenges could be tackled by nanobiotechnology, as an “enabling” technology. Below is a brief presentation of one of these two workshops.

Bioanalytics, instrumentation for life sciences: nanobiotechnology to study the basic dynamics of life
Biology has made tremendous advancements during these last years. Researchers have been able to start to connect the genetic bases of life to the physiological state of living species, human beings, animals and plants. Progress has been everywhere, in all fields and this basic knowledge about how complex systems develop, grow, fail and repair themselves and finally die already have strong impact on healthy and sustainable worldwide development, with impacts on food and health technologies.





Life sciences research therefore needs the best tools to progress and understand the huge complexity of life. This knowledge starts from the molecular components of life and ends in organisms. In between scientists are faced to a growing complexity: more they know about a part of the system, more they discover that this knowledge is still incomplete when it comes to the whole. For instance we know already that some proteins (the basic molecules that make our body work, and translate the genetic information in functional behavior) are involved in Alzheimer disease development, but what we do not know are exact consequences of inhibiting or activating these proteins, in the short and long term. Fundamental knowledge about what kind of events these proteins (or the lack of proteins) trigger at the levels of cells, organs and organism is still needed, before we got a successful treatment of Alzheimer disease. Fundamental knowledge in life sciences constitute a base on which many applications take root.

In order to understand the exact dynamics of life, from molecules to organisms, biologists need bioanalytical tools that enable their vision of how organs, cells and molecules work. Thanks to the convergence of scale that exists between nanotechnology and biology, nanobiotechnology increases already our knowledge of living systems. Experts present at workshop have underlined the importance of 2 main objectives for these tools.




Get more from the same: existing analytical techniques might be combined in order to access to extensive and detailed information about living systems. For instance, integrated information about chemical composition and topography of cell membrane, as well as a dynamic picture of signals emitted by the cell would present a great interest. Each of these features can be currently measured separately, but not at the same time. Develop cell analytics techniques and manipulation, especially applied to living cell, in order to quantify its components, to study transient processes such as a dynamic map of molecules, to study the membrane dynamics.

The cell is a complex 3D system, interacting with other cells, and understanding its dynamics should be a major objective in order to control its different processes.

An underlying objective to target by nanobioanalytical tools could also relate to optimised workflows in the research process in order to get accurate results. Actually standardised procedures and reproducible methods are still to improve, although research may need some flexibility in the use of its tools. Limitations in results accuracy (and thus knowledge progress) are basically linked to

-  The sample itself: access to sample, limited amount, integrity
-  The complexity of the workflow (most often manual steps, that should be automated)
-  The limitations of analytical techniques (destructive or not, experimental conditions, resolution, sensitivity, cost) that manufacturers try to overcome
-  Data interpretation and combination

The group focused about 3 case studies in order to illustrate the current bottlenecks due to the non-optimised workflow :

-  Brain tissue analysis - biomarkers identification for diagnostics purposes in Alzheimer disease
-  Stem cells manipulation and analysis to study osteosarcoma, cell activation and development
-  Blood analysis to study macrophage development

These case studies will provide some basic inputs to Nano2Life Strategic Research Programmes, in bridging the gap between biologists and nanotechnologists.

Human Resource management in Nano2Life

Twenty three partners from twelve different countries are involved in the multidisciplinary community of the first Network of Excellence in the field of nanobiotechnology (N2L). Two hundred scientists with very different background are engaged and join the various activities organised on major platforms, such as Strategig research programmes, education and training, industrial activities, foresight, IPR, resources, ethics, gender, etc. A real challenge is to build a well functioning communication and working infrastructure and to handle the different cultures and scientific backgrounds. Remember: It is a scientific network, based on voluntary engagement of the partners, often without the usual means of a company or a university to motivate and animate the people to do their work.

A way to address the challenge is to educate and train “N2L people in charge” in human resource management, by offering them a specially designed course, named PROGRESS.

The aim of the course is to present and give useful tools, knowledge and reflective insights about how to work in groups, how to handle conflicts, how to address leadership issues in heterogeneous groups. The educational method is “experiential learning” offering new knowledge through a four step process:

- 1) experiencing a tutorial,
- 2) reflecting individually and in groups,
- 3) generalizing through a theoretical framework and,
- 4) testing new behaviours

The participants learn how individual and group processes influence results and performance of a group/team. They also learn how to lead during different stages of group maturity and are trained in conflict resolution. Furthermore the participants gain insight in how similarities/differences between people impact relationships, how to improve communication skills through effective feedback and how to motivate a team/group.

The course was already organised 4 times, with 15 “management level” N2L members attending them. *“By learning about why I react in a certain way, I can also understand better why others in the team react they way they do, which will make team oriented leading a much easier task. The way our group worked turned out to be a miniature example of what I see at my work on all levels – and I realized I can be better prepared for this now.”* is a very characterizing comment of a course participant.

The N2L mobility scheme enables fellowships to attend the course, thus ensuring a long lasting integration and enabling a good management of the network,

Another novel HRM tool recently applied in N2L is an electronic mentor/mentee platform, which offers the opportunity for young scientists to get encouragement, advice, additional information and skills from an experienced researcher/project manager outside their current institution. The **e-Mentor** program also represents a flexible way of disseminating knowledge and addressing infrastructural problems in the network. In June 2006 already 13 couples of mentors/ mentees from Denmark, Greece, Germany, Sweden, Ireland, France, Switzerland and Spain were using this novel tool. The feedback is very positive and most of them use the biannual meetings of N2L to get to know each other personally.

Events



Research School, Neuchatel

The Research school is part of the N2L integrated curriculum intends to provide a training for last year graduate students and postdoctoral scientists in the field of nanobiotechnology. As such, the participation fees of the participating young scientists is supported by the network. The school is multidisciplinary, interactive, and innovative, learning skills in how to address challenges. Lectures on basic and applied science are combined with interactive sessions on ethics, IPR, the FP7 program of the commission, fundraising.

The focus of the first research school held in Grenoble between 19-23 June 2006, was centered around local expertise and competence, namely: In vitro diagnostics and analytical nanobiosystems. On site technical visits of high tech companies and research labs allowed the participants to exchange experience and reflect on the way of:

- developing their academic and/or industrial career (including creation of a start-ups),
- managing research projects, on the way upstream of their research.

14 participants attended the first school, which has been evaluated as being intensive, challenging, useful and very interesting. 92% of the participants is recommending the school to any interested.

The second N2L Research School will be held in Neuchatel, Switzerland, between 15-19 January 2007, and will focus on Neuroengineering. Interested persons should contact the local organizer, Dr. Philippe Fischer at: fischer@fsrm.ch

Participation applications should be submitted latest by November 30, 2006

EVNU Workshop in TAU

Organizers: Prof. Rafi Nachmias, Judith Ram, Tel Aviv University



EVNU (European Virtual N2L University) is an on-line educational resource designed for Institutes/Universities across the European Community participating in Nano2Life. EVNU will act as a joint educational venture of Nanobiotechnology researchers and E-learning experts aiming to share knowledge and expertise. EVNU will consist of a collection of high quality on-line learning materials and instructional modules. Researchers and instructors of participating Institutes/Universities will contribute materials from their unique areas of research and expertise. These resources will be available to Instructors and Nano2Life members, to be incorporated into their academic courses.

The EVNU collection of learning materials will be stored in a state-of-the-art, user friendly, web-supported Learning Management System and organized according to the Nano2Life agreed curriculum. It will be annotated and tagged with meta-data, to meet the academic needs of its users.

The first EVNU workshop, to be held in Tel-Aviv, Israel 29th – 30th January, aims for participants from Nano2Life institutes/universities to jointly generate the concept of EVNU.

Workshop Objectives:

- Identifying the potential instructional needs of Nano2Life institutes/universities.
- Locating potential contributors to the on- line resources.
- Reaching an agreement about contents organization.
- Deciding who will be eligible to participate, whether as contributor or as a consumer, and formulating the terms of participation.
- Creating distribution channels.
- Establishing a work plan for the continuation of the project.
- Initiating the design of exemplary instructional modules to be incorporated in EVNU.
- Agree on a pilot action (e.g. generating a joint platform for overheads on a certain topic relevant to nanobiotechnology)



3rd Annual Meeting 2007, Saarbrücken

The 3rd Annual Meeting of Nano2Life will take place 19th - 21st March 2007 in Saarbrücken, Germany. Venue is the castle of Saarbrücken, which is located in town centre. Around two hundred researchers from all over Europe discuss about nanobiotechnology. The Researchers will plan further undertakings and discuss the performance of the current projects. Workshops and lectures on different issues of nanobiotechnology will be held.

The opening event is scheduled for Monday at 1:30 pm. The meeting will conclude with an evening festivity on Wednesday.

Hosts are members of the regional cluster, specifically the University of Kaiserslautern, University of Saarland, University of Mainz, IBMT, TP 21 and NanoBioNet e.V.

The registration for Nano2Life members will start at the end of December 2006.
