EPFL Innogrants & Support to Start-Ups

THE INNOVATION DILEMMA

“I read occasionally about attempts to set up "technology parks" in other places, as if the active ingredient of Silicon Valley were the office space. An article about Sophia Antipolis bragged that companies there included Cisco, Compaq, IBM, NCR, and Nortel. Don't the French realize these aren't startups?”

Paul Graham

“How to be Silicon Valley?”

Few startups happen in Miami, for example, because although it's full of rich people, it has few nerds. It's not the kind of place nerds like. Whereas Pittsburgh has the opposite problem: plenty of nerds, but no rich people.
Ingredients of tech clusters...

- Universities and research centers of a very high caliber.
- An industry of venture capital (i.e. financial institutions and private investors).
- Experienced professionals in high tech.
- Service providers such as lawyers, head hunters, public relations and marketing specialists, auditors, etc.

Last but not least, an intangible yet critical component: a pioneering spirit which encourages an entrepreneurial culture.

Source: M. Kenney “Understanding Silicon Valley, the Anatomy of an Entrepreneurial Region”, in chapter: “A Flexible Recycling” by S. Evans and H. Bahrami
Campus (2017)
10,866 students, of whom 2,142 PhD students
343 faculty
3,854 staff (scientific & technical)

Spending (2017)
CHF 632M from State budget
CHF 317M other funding (EU, SNSF, private...)
Total: CHF 949M
**EARLY AND CONTINUOUS COMMITMENT OF EPFL**

2017 Focus on student entrepreneurs, Xgrants
2016 VPIV transformed as VPI with TTO joining VPR
2015 New Start-up Guidelines
2015 China Hardware Innovation Camp
2014: The Eurotech Venture Program (EVP)
2013: La Forge
2011: VPIV moves to Innovation Park
2010: EPFL Innovation Park
2009 : the Garage
2008 : seed fund
2007 : revised TT regulations & overhead policy
2006 : new partnerships : endowed chairs, indus. Incubators
2005 : centers, programs, Innogrants, TT Alliance
2004 : vice-presidency for innovation and tech. transfer (VPIV)
2003 : legal framework adapted for efficient TT
2000 : first equity deals
1999 : rules for remuneration of inventors and labs
1999 : entrepreneurship courses
1998 : technology transfer : creation of the TT office (SRI)
1997 : coaching for early stage start-up projects
1995 : pre-seed money for start-up projects : foundation FIT
1993 : IP strategy / licensing
1991 : science park created : foundation PSE
1988 : policy for research contracts & partnerships
1986 : two first major strategic industrial partnerships
1986 : industrial liaison program : Cast / association APLE
What’s are Start-ups? What do they need?

In the USA, “a start-up is a temporary organization designed to search for a repeatable and scalable business model.”

Steve Blank

At EPFL, resources include:

- **Advice** (training, coaches, mentoring)
- **Funding** (grants, prizes, investments)
- **Office space** (co-working spaces, incubators, accelerators, science parks)
- **Exposure** (events, networking, role models, pitching of ideas)
- **Internationalization** (trips, bus. dev., foreign offices)
Funding: Surviving the “Valley of Death” at EPFL

A rich ecosystem

EPFL Innogrants | 2018
IT'S NOT ABOUT MONEY ONLY: A RICH AND DENSE ECOSYSTEM

Advice/Training:

Exposure/networks:

Housing:

Start-Up foundation

“Valley of Death”

Research Grants
Development Grants
Preseed Grants
Friends, Family & Fools
Business Angels, Seed VCs
Early Stage VCs, Corp. Partners
Late Stage VCs (...M&A / IPO)

Basic Research
Applied Research
Proof of Concept / Business Case
Prototype Founders
Prototype Founders
Product Development
Company Fast Growth (Revenues, Employees)

A rich ecosystem
More than funding
A Rich Ecosystem

Support to Innovation around EPFL

An exhaustive description is available online

http://short.epfl.ch/ecosystem

https://vpi.epfl.ch/resources-for-startups
CLOSE SUPPORT: THE EPFL INNOVATION PARK

- The Innovation Park: 13 buildings for companies partnering & collaborating with EPFL
  [http://epfl-innovationpark.ch](http://epfl-innovationpark.ch)

- Including 6 buildings for start-ups, offering a variety of value-added services (coaching, training, funding,…)

- The Garage (opened in 2008) for very early stage ventures.

- A co-working open-space for early projects

[La Forge logo]
“During the 1970s and 1980s, many of the top engineers from Fairchild, National and other companies would meet there to drink and talk about the problems they faced in manufacturing and selling semiconductors. It was an important meeting place where even the fiercest competitors gathered and exchanged ideas.”

“If there is a single point I wish to make here today, it is that as a discipline, both in industry and in academia, we are just not taking enough risks today.”

Richard Newton (1951-2007)
ANY START-UP PROJECT TAKES TIME

Pedro Bados (Nexthink) is a just one but clear illustration that even a friendly ecosystem will not avoid a long maturation.

- Sept 03: Invention disclosure
- March 04: Option for License
- April 04: Patent filing
- Janv. 04: contact with an IT expert
- May 04: publication in Dialogue newsletter
- Mar 04-Jun 04: coaching PSE financed by EPFL
- Avril-Sept 04: Further coaching
- Sept 04: foundation of NEXThink SA
- Déc. 04: Winner of the “startup competition”
- Dec 04: contacts with VCs
- Jan 05: 1st pilots with customers
- Jun 04: Loan of CHF100k
- April 06: 1st round CHF 1.6M
- Jul. 07: 2nd round CHF 6M

As of 2017, more than 65M in funding, more than 300 employees, www.nexthink.com

INNOVATION & TECH. TRANSFER

A 2-3 year initial phase
TECHNOLOGY TRANSFER

- Invention & technology disclosures
- Priority patent applications
- Licenses, TT agr. & options
- Start-ups

[Graph showing trends in technology transfer metrics from 1990 to 2017]
EPFL Spin-offs

All EPFL start-ups on www.spied.ch
## High-Growth Start-ups (Present)

<table>
<thead>
<tr>
<th>Company</th>
<th>Founded</th>
<th>VCs</th>
<th>Amount raised</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dartfish</td>
<td>1998</td>
<td>Vinci, Intel</td>
<td>CHF 20M</td>
</tr>
<tr>
<td>Sensimed</td>
<td>2003</td>
<td>Wellington, Vinci</td>
<td>CHF 57M</td>
</tr>
<tr>
<td>Nexthink</td>
<td>2004</td>
<td>VI, Auriga, Highland Europe, Waypoint</td>
<td>CHF 65M</td>
</tr>
<tr>
<td>Amazentis</td>
<td>2007</td>
<td>Waypoint, H. Wyss, P. Landolt, A. Hoffmann</td>
<td>CHF10M+</td>
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<tr>
<td>Aleva Neurotherapeutics</td>
<td>2008</td>
<td>Biomed Inv., BB Biotech, Defi Gestion, Banexi</td>
<td>CHF 44M</td>
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<tr>
<td>Bicycle Therapeutics Ltd</td>
<td>2009</td>
<td>Novartis Venture, Atlas, SR-One, Vertex</td>
<td>CHF 95M</td>
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<tr>
<td>Anokion</td>
<td>2010</td>
<td>Versant, Novartis, Novo</td>
<td>CHF 33M</td>
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<tr>
<td>Lightbend</td>
<td>2010</td>
<td>Greylock, Shasta, Polytech, Intel, IBM</td>
<td>CHF 52M</td>
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<tr>
<td>Abionic</td>
<td>2010</td>
<td>Polytech, Blue Ocean, Medholdings</td>
<td>CHF 13M</td>
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<tr>
<td>Kandou Bus</td>
<td>2011</td>
<td>Bessemer, Walden Intl.</td>
<td>CHF 40M</td>
</tr>
<tr>
<td>Mindmaze</td>
<td>2012</td>
<td>Hinduja Group, Buss angels (inc. Leonardo DiCaprio)</td>
<td>CHF 100M</td>
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<tr>
<td>L.E.S.S.</td>
<td>2012</td>
<td>VI Partners</td>
<td>CHF 3M</td>
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<td>Cyberhaven</td>
<td>2014</td>
<td>Accomplice</td>
<td>CHF 2M</td>
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<tr>
<td>GTX Medical (G-therapeutics)</td>
<td>2014</td>
<td>Gimv, Wellington Partners, LSP, Inkef Capital</td>
<td>CHF 30M</td>
</tr>
<tr>
<td>BestMile</td>
<td>2014</td>
<td>Partech, Serena, Airbus</td>
<td>CHF 16M</td>
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<tr>
<td>Lunaphore</td>
<td>2014</td>
<td>Zühlke Ventures, Polytech, Occident Group</td>
<td>CHF 8M</td>
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<tr>
<td>Gamaya</td>
<td>2015</td>
<td>VI Partners, ICOS Capital, Sandoz Foundation</td>
<td>CHF 8M</td>
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<tr>
<td>Inpher</td>
<td>2015</td>
<td>Polytech, Bowery, Crosslink</td>
<td>CHF 4M</td>
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</table>
# High-Growth Start-Ups (Past)

<table>
<thead>
<tr>
<th>Company</th>
<th>Founded</th>
<th>VCs</th>
<th>Amount raised</th>
<th>Outcome</th>
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</thead>
<tbody>
<tr>
<td>Snaktech</td>
<td>1997</td>
<td>Auriga, Innovacom, Sudinnova</td>
<td>CHF 3M</td>
<td>M&amp;A Cadence/Simplex</td>
</tr>
<tr>
<td>Cytion</td>
<td>1997</td>
<td>Banexi</td>
<td>CHF 5M</td>
<td>M&amp;A Molecular Dev.</td>
</tr>
<tr>
<td>Endoart</td>
<td>1998</td>
<td>Sofinnova, VI, Vinci</td>
<td>CHF 31M</td>
<td>M&amp;A Allergan</td>
</tr>
<tr>
<td>BeamExpress</td>
<td>2001</td>
<td>Index, Oak, i-source, Polytech</td>
<td>CHF 30M</td>
<td></td>
</tr>
<tr>
<td>Innovative Silicon</td>
<td>2002</td>
<td>Index, Austin, Highland, Auriga, Wellington</td>
<td>CHF 60M</td>
<td></td>
</tr>
<tr>
<td>HPL</td>
<td>2004</td>
<td>VI, DFJ ePlanet, BankInvest</td>
<td>CHF 8M</td>
<td>M&amp;A Dow Chemical</td>
</tr>
<tr>
<td>Biocartis</td>
<td>2007</td>
<td>Advent, KBC, Aescap</td>
<td>CHF 330M</td>
<td>IPO Brussels</td>
</tr>
<tr>
<td>Quartet Medicine</td>
<td>2013</td>
<td>Atlas, Novartis, Pfizer</td>
<td>CHF 23M</td>
<td></td>
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</tbody>
</table>
In a Dynamic Ecosystem

Many companies attracted by the EPFL Innovation Park and the dynamic local economy

<table>
<thead>
<tr>
<th>Company</th>
<th>Founded</th>
<th>Amount raised</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC Immune</td>
<td>2003</td>
<td>CHF 125M</td>
<td></td>
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<tr>
<td>AB2Bio</td>
<td>2010</td>
<td>CHF 41M</td>
<td>IPO Sept. 2016 Nasdaq</td>
</tr>
<tr>
<td>Sophia Genetics</td>
<td>2011</td>
<td>CHF 58M</td>
<td></td>
</tr>
<tr>
<td>LMD</td>
<td>2012</td>
<td>Undisclosed</td>
<td></td>
</tr>
<tr>
<td>Ascenneuron</td>
<td>2012</td>
<td>CHF 36M</td>
<td></td>
</tr>
<tr>
<td>Corpacademy</td>
<td>2013</td>
<td>CHF 14M</td>
<td></td>
</tr>
</tbody>
</table>

High-growth Institutional funding
HIGH-GROWTH START-UPS

- More than CHF1.2B raised by EPFL spin-offs with venture capital and business angels

- In addition, many entrepreneurial alumni & academics
EPFL Spin-off Recent Exits

IPO in April 2015 in Brussels

Acquired by

Intel

Acquired by

Parrot

Acquired by

Daily motion

Acquired by

Undisclosed acquirer rumored to be Apple

Bought by Cisco for $3.5B in Jan. 2017
EPFL Spin-off 2017-18 Exits

**KB Medical**
Acquired by

**Globus Medical**

**Pix4D**
Acquired by

**Intento Gaitup**
Now Part of MindMaze

**Mimotec**
Acquired by

**Acrotect Group**
As a Summary

Start-ups at EPFL

A 16-page report published in June 2017 analyzing 312 EPFL spin-offs (165 since 2007) with a focus on

Fund raising: CHF1.2B overall
Job creation: about 2’000 today in 200 firms
Migrants: from 25% in the 90’s to 70% today

http://short.epfl.ch/startup-report
BACKGROUND

The Innogrants were created in February 2005 by EPFL with the support of Lombard Odier to:

- award grants that would encourage idea creation and help ideas to be developed,

- organize events facilitating the evolution of the innovation and entrepreneurial culture.

https://vpi.epfl.ch/innogrants

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Fondation Lombard Odier
KPMG
INEOS
CA Technologies
Helbling

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Un fonds pour transférer plus vite les nouveautés de l’EPFL vers l’économie

**Initiative**

Une première en Europe. Seul le MIT aux États-Unis possède une politique similaire.

L’école polytechnique fédérale de Lausanne (EPFL) a créé un fonds dédié à des projets liés aux technologies innovantes et a un programme d’aide à la recherche. Ce fonds de 3 millions de francs, grâce à l’implication de René Magon, vice-président de l’EPFL et de la Fondation Beyeler à Bâle, contribue à financer des projets d’innovation, par l’intermédiaire de l’Innovation Network. Il s’agit d’un programme unique en Europe qui, à priori, est le plus important pour financer la recherche.

**Innovation Network**

Un outil pour favoriser la concrétisation des idées innovantes. L’Innovation Network permet de financer des projets d’innovation, par l’intermédiaire de l’Innovation Network. Il s’agit d’un programme unique en Europe qui, à priori, est le plus important pour financer la recherche.

**Innogrants**


**Sortie du nid**

Les premiers projets sélectionnés en 2005 se caractérisent par leur diversité: création automatisée de circuits électroniques, production de protéines, réalisation d’expériences animales sur le laboratoire de transfert de chaleur et de masse, travail sur une méthode de microfiltration des cellules, travail sur un projet de nanotechnologie pour l’ingénierie médicale. Outre un soutien financier d’un an d’un montant maximum de 100 000 francs, les Innogrants bénéficient de conseils et de mentors pour la mise en place de leurs projets.

**Conclusion**

En conclusion, l’Innovation Network est un outil puissant pour favoriser la concrétisation des idées innovantes et pour donner de nouvelles perspectives à la recherche scientifique. Il est un exemple de ce que peut être une politique d’innovation efficace et efficace.
**Facts & Figures**

821 requests
121 grants (CHF11.2M)
78 companies created
CHF 33M in new grants
CHF 320M in equity
9 exits (M&As)

<table>
<thead>
<tr>
<th>College</th>
<th>Contacts</th>
<th>%</th>
<th>Grants</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>STI (Engineering)</td>
<td>213.5</td>
<td>26%</td>
<td>48</td>
<td>40%</td>
</tr>
<tr>
<td>IC (Computer Science Communications)</td>
<td>121</td>
<td>15%</td>
<td>29.5</td>
<td>24%</td>
</tr>
<tr>
<td>SB (Basic Sciences)</td>
<td>80.5</td>
<td>10%</td>
<td>16.5</td>
<td>14%</td>
</tr>
<tr>
<td>SV (Life Sciences)</td>
<td>58</td>
<td>7%</td>
<td>13</td>
<td>11%</td>
</tr>
<tr>
<td>ENAC (Environment &amp; Architecture)</td>
<td>36</td>
<td>4%</td>
<td>2</td>
<td>2%</td>
</tr>
<tr>
<td>CDM/CDH</td>
<td>24.5</td>
<td>3%</td>
<td>2</td>
<td>2%</td>
</tr>
<tr>
<td>Students</td>
<td>85</td>
<td>10%</td>
<td>4</td>
<td>3%</td>
</tr>
<tr>
<td>External</td>
<td>202.5</td>
<td>25%</td>
<td>8</td>
<td>7%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>821</strong></td>
<td></td>
<td><strong>121</strong></td>
<td></td>
</tr>
</tbody>
</table>

STI (Engineering); IC (Computer Science Communications); SV (Life Sciences); ENAC (Environment & Architecture); SB (Basic Sciences); CDM (College of Management de Technology)

Innogrant origin

- CH: 20%
- Western Europe: 29%
- Eastern Europe: 14%
- ROW: 37%

**Innogrant vs. Immigrant**
The SNF Spin Funds

Similar to the Innogranits in the IT field, managed by EPFL, Swiss-wide; ended in 2012.

16 projects (CHF 1.9M)
7 start-ups, 35M equity
http://www.mics.org/spinfund

http://www.nccr-robotics.ch/tech-transfer/startups/spinfund

Established in July 2013
4 projects

Fotokite
A B et on Peo ple

with the support of
The Outputs


All EPFL start-ups on https://vpi.epfl.ch/EPFL_Spin-offs
AGENDA

INNOVATION AND TECH. TRANSFER

THE INNOGRANTS

ROLE MODELS

ABOUT SOME INNOGRANTS
Not Always Rational

“Launching a start-up is not a rational act. Success only comes from those who are foolish enough to think unreasonably. Entrepreneurs need to stretch themselves beyond convention and constraint to reach something extraordinary.” Vinod Khosla

“The difference is in psychology: everybody in Silicon Valley knows somebody that is doing very well in high-tech small companies, start-ups; so they say to themselves “I am smarter than Joe. If he could make millions, I can make a billion”. So they do and they think they will succeed and by thinking they can succeed, they have a good shot at succeeding. That psychology does not exist so much elsewhere.” Tom Perkins
It’s also about role models
IT'S ALSO ABOUT ROLE MODELS
Startup Champions Seed Night @ EPFL

Wednesday, April 26th, 2017
from 18:30 - 21:00 (doors open at 17:00 for startups’ exhibition)
Rolex Learning Center Forum, EPFL

Save your ticket now: www.venturelab.ch/startup-champions-seed-night

24 world-class startups selected for a unique pitch competition, including the 20 winners of the venture leaders programs - next generation of entrepreneurs.

Join us to vote for the best startup!

World-class STARTUPS. Swiss made.

Keynote

Tej Tadi
Founder & CEO Mindmaze
Switzerland’s unicorn

Seed Night pitch competition

https://vpi.epfl.ch/startup_champions

Startup Champions @ EPFL
Swiss fintech startups:

Date: Thursday, November 17th, 2016
Time: From 17:30 – 20:00 (doors open at 17:00)
Place: Rolex Learning Center Forum, EPFL

Keynote: „Success recipe for entrepreneurs“

George Kasikas
Co-founder of Temenos

Keynote: Fintech Startups on the starting blocks:

Temenos

1. Gervais Thiercelin
Chief Executive Officer of Temenos

2. Arnaud Wauters
Co-founder and CEO of Swisscom

3. François Pichon
Co-founder of Swisscom

Free but mandatory registration: www.venturelab.ch/SC

https://vpi.epfl.ch/startup_champions

Startup Champions Seed Night @ EPFL

Wednesday, May 2nd, 2018
from 18:30 - 21:00 (doors open at 17:00 for startups’ exhibition)
Rolex Learning Center Forum, EPFL

Save your ticket now: www.venturelab.ch/startup-champions-seed-night

20 world-class startups selected for a unique pitch competition, including the 10 Venture Leaders Life Sciences and the next generation of EPFL entrepreneurs.

Join us to vote for the best startup!

World-class STARTUPS. Swiss made.

Keynote

Daniel Yanisse
Co-founder & CEO
Checkr EPFL Alumni MT 12

Seed Night pitch competition

https://vpi.epfl.ch/startup_champions
Drink Local, Think Global

So let me just add my translation of a quote by Daniel Borel, co-founder of Logitech and one of the infrarouge guests, that is extracted from an interview to magazine Trajectoire published on November 16, 2009. I think that it is consistent with what I usually publish here:

"The only answer that I may provide is the cultural difference between the USA and Switzerland. When we founded Logitech, as Swiss entrepreneurs, we had to enter very soon the international scene. The technology was Swiss but the USA, and later the world, defined our market, whereas production quickly moved to Asia. I would not like to look too affirmative because many things change and many good things are done in Switzerland. But I feel that in the USA, people are more opened. When you receive funds from venture capitalists, you automatically accept an external shareholder who will help you in managing your company and who may even fire you. In Switzerland is not very well accepted. One prefers a small pie that is fully controled to a big pie that one only controls at 10%, and this may be a limiting factor".

Tags: Switzerland
**Silicon Valley, Still The Model...**

Steve Jobs about why Silicon Valley “[There are] two or three reasons. You have to go back a little in history. I mean this is where the beatnik happened in San Francisco. It is a pretty interesting thing…You've also had Stanford and Berkeley, two awesome universities drawing smart people from all over the world and depositing them in this clean, sunny, nice place where there's a whole bunch of other smart people and pretty good food. And at times a lot of drugs and all of that. So they stayed… I think it’s just a very unique place”

Don Valentine on Founders: “Founders are genetically impossible by choice.”

“There are only two true visionaries in the history of Silicon Valley. Jobs and Noyce. Their vision was to build great companies…Steve was twenty, un-degreed, some people said unwashed, and he looked like Ho Chi Min. But he was a bright person then, and is a brighter man now... Phenomenal achievement done by somebody in his very early twenties... Bob was one of those people who could maintain perspective because he was inordinately bright. Steve could not. He was very, very passionate, highly competitive.”
INNOVATION AND TECH. TRANSFER
THE INNOGRANTS
ROLE MODELS
ABOUT SOME INNOGRANTS
## Innogrants - 2005

<table>
<thead>
<tr>
<th>PROJECT</th>
<th>LABORATORY (SCHOOL)</th>
<th>PEOPLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mimosys</td>
<td>Processor Architecture Laboratory (IC/LAP)</td>
<td>Paolo Ienne / Jason Brown</td>
</tr>
<tr>
<td>Production of proteins</td>
<td>Cellular Biotechnology Laboratory (External &amp; SV/LBTC)</td>
<td>Peter Bromley / Florian Wurm</td>
</tr>
<tr>
<td>Cytomec</td>
<td>Orthopaedic Research Division (STI)</td>
<td>Tom Quinn</td>
</tr>
<tr>
<td>DAAV technologies</td>
<td>Distributed Information Systems Laboratory (IC/LSIR)</td>
<td>Jie Wu</td>
</tr>
<tr>
<td>Opt.im</td>
<td>Artificial Intelligence Laboratory (IC/LIA)</td>
<td>Ion Constantinescu</td>
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<tr>
<td>Cooling techniques of microprocessors</td>
<td>Heat and Mass Transfer Laboratory (STI/LTCM)</td>
<td>James DeRose</td>
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<tr>
<td>Anokion</td>
<td>Merck Serono Chair in Drug Delivery (SV/LMRP)</td>
<td>Jeff Hubbell</td>
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[Images of companies and logos are present, indicating the companies supported by Innogrants 2005.]
# Innogrants - 2006

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<tr>
<th>PROJECT</th>
<th>LABORATORY (SCHOOL)</th>
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<tbody>
<tr>
<td>Fastree 3D</td>
<td>Processor Architecture Laboratory (IC/LAP)</td>
<td>Cristiano Niclass</td>
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<tr>
<td>Medical Imaging System</td>
<td>Biomedical Optics Laboratory (STI/LOB)</td>
<td>Alexandre Serov</td>
</tr>
<tr>
<td>Biocomposites</td>
<td>Laboratory of Composite and Polymer Technology (STI/LTC)</td>
<td>Laurence Mathieu</td>
</tr>
<tr>
<td>Molecule Modelisation</td>
<td>Processor Architecture Laboratory (External &amp; IC/LAP)</td>
<td>Payal Kapor</td>
</tr>
<tr>
<td>Attolight</td>
<td>Laboratory of Quantum Optoelectronics (SB/LOEQ)</td>
<td>Samuel Sonderreger</td>
</tr>
<tr>
<td>Jilion</td>
<td>Algorithmics Laboratory (IC/ALGO)</td>
<td>Zeno Crivelli</td>
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<td>Inocs</td>
<td>Integrated Systems Laboratory (STI/IC)</td>
<td>Srinivasan Murali</td>
</tr>
<tr>
<td>RouteRANK</td>
<td>Laboratory for Computer Communications and Applications (IC/LSA2)</td>
<td>Jochen Mundinger</td>
</tr>
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## Innogrants - 2007

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<tr>
<th>PROJECT</th>
<th>LABORATORY (SCHOOL)</th>
<th>PEOPLE</th>
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<tbody>
<tr>
<td>Prediggo</td>
<td>Artificial Intelligence Laboratory (IC/LIA)</td>
<td>Vincent Schickel</td>
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<td>Enairys</td>
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<td>Sylvain Lemofouet</td>
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<td>Gliapharm</td>
<td>Laboratory of Neuroenergetics and Cellular Dynamics (SV/LNDC)</td>
<td>Luc Pélerin</td>
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<td>Optimax (logistics and the internet)</td>
<td>Artificial Intelligence Laboratory (IC/LIA)</td>
<td>Adrian Petcu</td>
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<td>Gaiasens</td>
<td>Environmental Fluid Mechanics Laboratory (ENAC/EFLUM)</td>
<td>Olivier Couach</td>
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<td>Lemoptix</td>
<td>Microsystems Laboratory (STI/LMIS4)</td>
<td>Nicolas Abele</td>
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<td>Stereotools</td>
<td>Signal Processing Laboratory 5 (STI/LTS5)</td>
<td>Jean-Philippe Thiran</td>
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*Images of logos and taglines for the projects and laboratories mentioned.*
## Innogrants - 2008

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<th>LABORATORY (SCHOOL)</th>
<th>PEOPLE</th>
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<tbody>
<tr>
<td>DB4all</td>
<td>Database Laboratory (IC/LBD)</td>
<td>David Portabella</td>
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<td>Social Web Browsing</td>
<td>Operating Systems Laboratory (IC/LABOS)</td>
<td>Rodrigo Schmidt</td>
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<td>Novagan</td>
<td>Laboratory of Advanced Semiconductors for Photonics and Electronics (SB/LASPE)</td>
<td>Eric Feltin</td>
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<td>ExCellness</td>
<td>Laboratory of Cell Biophysics (SB/LCB)</td>
<td>Pierre-Jean Wipff</td>
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<td>Aïmago</td>
<td>Laboratory of Biomedical Optics (STI/LOB)</td>
<td>Michael Friedrich</td>
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<td>Aleva Neurotherapeutics</td>
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<td>Andre Mercanzini</td>
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<td>Antispam and filtering methods</td>
<td>Laboratory for Computer Communications and Applications (IC/LSA2)</td>
<td>Slavisa Sarafijanovic</td>
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<td>Madeinlocal</td>
<td>Institute of Core Computing Science (IC/CGC)</td>
<td>Manuel Acevedo</td>
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## Innogrants - 2009

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<td>Minsh</td>
<td>Distributed Systems Laborator (IC/LSR)</td>
<td>Barbara Yersin / Jonathan Maim</td>
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<td>Ozwe</td>
<td>Pedagogical Research and Support (CRAFT)</td>
<td>Frédéric Kaplan</td>
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<td>Wippso</td>
<td>Institute of Electrical Engineering (STI/IEL)</td>
<td>Marco Mattavelli</td>
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<tr>
<td>Anti-tumour Agents</td>
<td>Laboratory of Glycochemistry and Asymmetric Synthesis (SB/LGSA)</td>
<td>Claudia Bello</td>
</tr>
<tr>
<td>Imina</td>
<td>Robotic Systems Laboratory 2 (STI/LSRO2)</td>
<td>Guillaume Boetsch / Benoit Dagon / Christophe Canales</td>
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# Innogrants - 2010

<table>
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<tr>
<th>PROJECT</th>
<th>LABORATORY (FACULTY)</th>
<th>PEOPLE</th>
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<tbody>
<tr>
<td>GoldenMMA</td>
<td>Microsystems Laboratory 1 (STI/LMIS1)</td>
<td>Bastien Rachet</td>
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<tr>
<td>Lake Mind Cloud Management</td>
<td>Operating Systems Laboratory (IC/LABOS)</td>
<td>Jean-Philippe Martin Flatin</td>
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<tr>
<td>Abionic</td>
<td>Microsystems Laboratory 4 (STI/LMIS4)</td>
<td>Nicolas Durand</td>
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<tr>
<td>Samantree</td>
<td>Laboratory of Physical Chemistry of Polymers and Membranes (SB/LCPPM)</td>
<td>Davor Kosanic</td>
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<tr>
<td>BugBuster</td>
<td>Operating Systems Laboratory (IC/LABOS)</td>
<td>Olivier Crameri / John Renault</td>
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![GoldenMMA Microsystems Laboratory 1 (STI/LMIS1)](image1)

![Lake Mind Cloud Management Operating Systems Laboratory (IC/LABOS)](image2)

![Abionic Microsystems Laboratory 4 (STI/LMIS4)](image3)

![Samantree Laboratory of Physical Chemistry of Polymers and Membranes (SB/LCPPM)](image4)

![BugBuster Operating Systems Laboratory (IC/LABOS)](image5)
### Innogrants - 2011

<table>
<thead>
<tr>
<th>Project</th>
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<tr>
<td>Mindmaze</td>
<td>Laboratory of Cognitive Neuroscience (SV/LNCO)</td>
<td>Tej Tadi</td>
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<tr>
<td>Therapeutics for ALS</td>
<td>Polymers Laboratory (STI/LP)</td>
<td>Harm-Anton Klok</td>
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<tr>
<td>L.E.S.S. - Nanofiber illuminator</td>
<td>STI Scientists Group (STI/GR-STI)</td>
<td>Yann Tissot &amp; Simon Rivier</td>
</tr>
<tr>
<td>Swiss to 12</td>
<td>Laboratory of the Physics of Nanostructured Materials (SB/LPMN)</td>
<td>Alessandro Macor &amp; Emile de Rijk</td>
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<tr>
<td>KB Medical</td>
<td>Robotic Systems Laboratory 2 (STI/LSRO2)</td>
<td>Philippe Bérard &amp; Szymon Kostrzewski</td>
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<td>Azbooka</td>
<td>Ceramics Laboratory (STI/LC)</td>
<td>Evgeny Miljutin</td>
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## Innogrants - 2012

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<td>Distalmotion</td>
<td>Robotic Systems Laboratory 1 (STI/LSRO1)</td>
<td>Ricardo Beira</td>
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<td>Cellestia Biotech</td>
<td>Prof. Radtke's Unit (SV/UPRAD)</td>
<td>Rajwinder Lehal</td>
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<td>Osmoblue</td>
<td>Microsystems Laboratory 4 (STI/LMIS4)</td>
<td>Elodie Dahan</td>
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<tr>
<td>Faceshift</td>
<td>Computer Graphics and Geometry Laboratory (IC/LGG)</td>
<td>Thibaut Weise</td>
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<td>Nanolive - super-resolution microscopy</td>
<td>Group Depeursinge (STI/GR)</td>
<td>Yann Cotte</td>
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<td>Morphotonix</td>
<td>Microsystems Laboratory 1 (STI/LMIS1)</td>
<td>Shenqi Xie &amp; Vaida Auzelyte</td>
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<td>Nanoga- DNA Watch</td>
<td>Laboratory of Advanced Semiconductors for Photonics and Electronics (SB/LASPE)</td>
<td>Nasser Hefyene</td>
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<tr>
<td>SmartCardia</td>
<td>Embedded Systems Lab. (STI/ESL)</td>
<td>Srini Murali</td>
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<tr>
<td>Shoelace Wireless</td>
<td>Laboratory of Algorithmic Research on Networked Information(IC/ARNI)</td>
<td>Lorenzo Keller</td>
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**About some Innogrants 2012**

DistalMotion
OsmoBlue
Cellestia Biotech
Nanolive - super-resolution microscopy
Nanoga- DNA Watch
Morphotonix
SmartCardia
Shoelace Wireless

**Nanoga SA**

**EPFL Innogrants | 2018**
## Innogrants - 2013

<table>
<thead>
<tr>
<th>Project</th>
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<tbody>
<tr>
<td>Playfulvision</td>
<td>Computer Vision Laboratory (IC/CVLAB)</td>
<td>Horesh Ben Shitrit</td>
</tr>
<tr>
<td>Makur</td>
<td>L'IDIAP Laboratory (STI/LIDIAP)</td>
<td>Joan Isaac Biel</td>
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<tr>
<td>Lunaphore</td>
<td>Microsystems Laboratory 2 (STI/LMIS2)</td>
<td>Ata Tuna Ciftlik</td>
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<tr>
<td>Imperix</td>
<td>Industrial Electronics Laboratory (STI/LEI)</td>
<td>Simon Delalay &amp; Nicolas Cherix</td>
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<tr>
<td>CodeTickler / Cyberhaven</td>
<td>Dependable Systems Lab (IC/DSDLAB)</td>
<td>Cristian Zamfir</td>
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<tr>
<td>G-Therapeutics</td>
<td>Brain &amp; Mind Institute (SV/BMI)</td>
<td>Vincent Delattre</td>
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<tr>
<td>Bright Sensors</td>
<td>Microtechnics Production Lab. (STI/LPM)</td>
<td>Gael Farine &amp; Conor Slater</td>
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<td>Rovenso</td>
<td>Biorobotics Laboratory (STI/BIOROB)</td>
<td>Thomas Estier</td>
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<td>Anemomind</td>
<td>Computer Vision Laboratory (IC/CVLAB)</td>
<td>Julien Pilet</td>
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<td>Oncoeffective</td>
<td>Microsystems Laboratory 4 (STI/LMIS4)</td>
<td>Robert Meissner</td>
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**About some Innogrants**

2013
## Innogrants - 2014

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<tr>
<td>Xsensio</td>
<td>Nanoelectronic Devices Lab (STI/NANOLAB)</td>
<td>Esmeralda Magally</td>
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<td>RAW</td>
<td>Data-Intensive Applications and Systems Lab. (IC/DIAS)</td>
<td>Miguel Branco</td>
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<td>Cloud Storage</td>
<td>Image and Visual Representation Laboratory (IC/IVRG)</td>
<td>T. Lochmatter, R. Achanta</td>
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<td>Biosemic</td>
<td>Laboratory of the Physics of Living Matter (SB/LPMV)</td>
<td>Wiktor Lisowksi</td>
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<td>Lucentix</td>
<td>Laboratory of Protein Engineering (SB/LIP)</td>
<td>Rudolf Griss &amp; Alberto Schena</td>
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<tr>
<td>Intento</td>
<td>Chair in Non-invasive Brain-machine Interface (STI/CNBI)</td>
<td>Andrea Maesani &amp; Andrea Biasiucci</td>
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<tr>
<td>SensArs Neuroprosthetics</td>
<td>Translational Neural Engineering Laboratory (STI/TNE)</td>
<td>F. Petrini, S. Raspopovic, M. Capogrosso</td>
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<tr>
<td>Sun Biosciences</td>
<td>Laboratory of Stem Cell Bioengineering (SV/LSCB)</td>
<td>Sylke Hoehnel &amp; Nathalie Bradenberg</td>
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<td>Graspeo</td>
<td>Real-Time Coordination &amp; Dist. Interact. Syst. (STI/REACT)</td>
<td>Andrii Vozniuk</td>
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<tr>
<td>Nowy</td>
<td>Dependable Systems Laboratory (IC/DSLAB)</td>
<td>L. Gardiol, A. Chamseddine &amp; S. Andrica</td>
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<td>ObViz</td>
<td>Artificial Intelligence Laboratory (IC/LIA)</td>
<td>Claudiu Musat</td>
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<tr>
<td>EAR</td>
<td>Audiovisual Communications Lab (IC/LCAV)</td>
<td>Juri Ranieri &amp; Ivan Dokmanic</td>
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**Innogrants - 2015**

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<td>Twenty Green</td>
<td>Electronics and Signal Processing Laboratory (STI/ESPLAB)</td>
<td>Mario Zaiß &amp; Duncan Sutherland</td>
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<td>Sthar</td>
<td>Laboratory of Theoretical Physical Chemistry (SB/LCPT)</td>
<td>Alberto Hernando de Castro, Miroslav Sluc, Marius Wehrle &amp; Eduardo Zambrano</td>
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<td>Swiss Sonic Production</td>
<td>Laboratory of Microengineering for Manufacturing (STI/LPM)</td>
<td>Csaba Laurenczy</td>
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<td>Notch Enhancers</td>
<td>Laboratory of Synthesis and Natural Products (SB/LSPN) &amp; Radtke Group (SV/UPRAD)</td>
<td>Viktoria Reinmüller</td>
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<td>Microsystems Laboratory 4 (STI/LMIS4)</td>
<td>Amélie Béduer &amp; Thomas Braschler</td>
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<td>Cellphmed</td>
<td>Laboratory of Virology and Genetics (SV/LVG)</td>
<td>Marc Friedli</td>
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<td>Naïk Londono, Martin Hofmann &amp; Wiktor Bourée</td>
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<td>TasteHit</td>
<td>Unit of prof. Salathé (SV/UPSALATHE)</td>
<td>Alexei Kounine &amp; Christopher Burger</td>
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<td>ArtMYN</td>
<td>Audiovisual Communications Lab (IC/LCAV)</td>
<td>Loïc Baboulaz, Alexandre Catsicas, Julien Lalande, Mathieu Rudelle</td>
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<td>Daphne</td>
<td>Swiss Plasma Center (SB/SPC)</td>
<td>Mario Michan</td>
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<td>Insolight</td>
<td>Laboratory of Applied Photonics Devices (STI/LAPD)</td>
<td>Laurent Coulot, Mathieu Ackerman, Florian Gerlich</td>
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## Innogrants – 2016

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<td>FXII Inhibitor</td>
<td>Laboratory of Therapeutic Proteins and Peptides (SB/LPPT)</td>
<td>Christian Heinis, Andres McAllister</td>
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<td>Active Wearables</td>
<td>Robotic Systems Laboratory (STI/LSRO)</td>
<td>Simon Gallo, Giulio Rognini</td>
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<td>Operating Systems Laboratory (IC/LABOS)</td>
<td>Youssef El Houti, Abdelkoudouss Badou</td>
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<td>Vizir</td>
<td>Image and Visual Representation Laboratory (IC/IVRL)</td>
<td>Martijn Bosch &amp; Adrien Bierbaumer</td>
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<td>Stem Cell Dynamics Laboratory (SV/LDCS)</td>
<td>Georges Muller &amp; David Bonzon</td>
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<td>Nastaran Asadi Zanjani, Johann Bigler &amp; Jean-Charles Fosse</td>
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<td>Laboratory of Macromolecular and Organic Materials (STI/LMOM)</td>
<td>Giuseppe Sforazzini</td>
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<td>MiraEx</td>
<td>Group Villanueva (STI/GR_LVT)</td>
<td>Clément Javerzac-Galy &amp; Nicolas Piro</td>
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<td>TWIICE</td>
<td>Laboratoire de Systèmes Robotiques (STI/LSRO)</td>
<td>Marek Jancik &amp; Tristan Vouga</td>
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<td>Aeler - EEG buds</td>
<td>Defitech foundation chair in Brain-Machine interface (STI/CNBI)</td>
<td>Naik Londono</td>
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<td>Lumendo</td>
<td>Laboratory of Biomedical Orthopedics (STI/LBO)</td>
<td>Andreas Schmocker, Azadeh Khoushabi</td>
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<td>GRZ Technologies</td>
<td>Laboratory of Materials for Renewable Energy (SB/LMER)</td>
<td>Noris Gallandat, Claudio Ruch</td>
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<td>CREAL3d</td>
<td>Optics &amp; Photonics Technology Laboratory (STI/OPT)</td>
<td>Vincent Gajdosik, Tomas Sluka</td>
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<td>Nanogence</td>
<td>Powder Technology Laboratory (STI/LTP)</td>
<td>Abhishek Kumar</td>
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<td>Viventis Microscopy</td>
<td>Prof. Oates Group (SV/UPOATES)</td>
<td>Petr Strnad, Andrea Boni</td>
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<td>Imverse</td>
<td>Foundation Bertarelli Chair in Cognitive Neuroprosthetics (SV/LNCO)</td>
<td>Javier Bello Ruiz, Robin Mange</td>
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<td>ADC Imaging</td>
<td>Laboratory of Bioorganic Chemistry and Molecular Imaging (SB/LCBIM)</td>
<td>Aleksey Yevtodiyenko &amp; Elena Dubikovskaya</td>
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<td>Microbiome Diagnostics</td>
<td>Chair of Applied Statistics (SB/STAP)</td>
<td>Paulo Refinetti</td>
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<td>Mirraccle</td>
<td>Biomedical Imaging Laboratory (STI/LIB)</td>
<td>Daniel Schnitter, Zsuzsanna Püsöki, Pablo Garcia-Amorena</td>
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<td>Feeltronix</td>
<td>Foundation Bertarelli Chair in Neuroprosthetic Technology (STI/LSBI)</td>
<td>Arthur Edouard Hirsch, Aaron Gerratt, Hadrien Michaud</td>
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<td>Timothé Laforest, Dino Carpentras, Mathieu Kunzi</td>
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<td>Damien Loterie, Paul Delrot</td>
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<td>Marco Grisi, Marc Conley</td>
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<td>Dimitrios Terzis</td>
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<td>Mano</td>
<td>Defitech Foundation Chair in Brain-machine Interface (STI/CNBI)</td>
<td>Luca Randazzo</td>
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## INNOGRANTS – 2018

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<tr>
<td>Foldaway Haptics</td>
<td>Reconfigurable Robotics Lab (STI/RRL)</td>
<td>Marco Salerno, Stefano Mintchev</td>
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<tr>
<td>Neural Concept</td>
<td>Computer Vision Lab (IC/CVLAB)</td>
<td>Pierre Baqué</td>
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<td>Prediva</td>
<td>Integrated Systems Laboratory (IC-STI/LSI1)</td>
<td>Nicee Srivastava</td>
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<td>CO2 Transformation</td>
<td>Laboratory of Organometallic and Medicinal Chemistry (SB/LCOM)</td>
<td>Felix Bobbink</td>
</tr>
<tr>
<td>3seNs</td>
<td>Laboratory of Advanced Semiconductors for Photonics and Electronics (SB/LASPE)</td>
<td>Pirouz Sohi &amp; Ian Rousseau</td>
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<tr>
<td>EMETS – Water Treatment</td>
<td>Laboratory of Inorganic Synthesis and Catalysis (SB/LSCI)</td>
<td>Chin Lee (Jeff) Ong</td>
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INTERNET AND SOFTWARE

ELECTRONICS

OTHER HARDWARE (ROBOTICS, MECHANICS, SENSORS)

ENERGY & ENVIRONMENT

MEDICAL DEVICES & BIOTECHNOLOGY
Travel Planning

routeRANK

Planning your travel is easy as 1,2,3
routeRANK integrates road, rail and air travel within Europe!
Flight information is also available for all major airports world-wide.

1 Search
Start typing a name and choose from a list of available locations.

2 Select
Sort the results according to what is most important to you – travel means, travel time, price, and CO2 emissions.

3 Buy
Follow the links to travel providers’ websites where you can purchase your tickets or find more information.

Travel Green
Sort your results by CO2 emissions to find the most ecological way of travelling.
Recommendation Solution

Vincent Schickel
A Social Network

Barbara Yersin, Jonathan Maim
E-learning

Math Centers that Deliver — Differentiation Done Right

While you teach small groups, HappyNumbers serves as an independent math center, providing individualized instruction for the rest of the class.

I’m a Teacher
Sign in to your account or sign up for one

I’m a Student
Sign in to your account (created by your teacher)

Azbooka

Exercises
Pour enseignants

Addition de deux nombres
Faites la soustraction
Multiplier de deux nombres
d’ailleurs vous savez!

Solution:

74913 + 5432 =

Vérifier Réponse

Correct: 0 Incorrect: 0

Win a 10-day entrepreneurship training in Boston

About some Innogrants

Evgeny Miljutin
Local Information

Made in Local

LA VILLE AVEC TES AMIS

I'M IN MIAMI BEACH!
Di Club, 16 jan.

Salon d'agriculture et
Concours internationaux
bovins
Beauvau Lausanne, 14 jan.

Marinatal
Beauvau Lausanne, 22 jan.

Marinatal
Beauvau Lausanne, 23 jan.

Plus d'événements, cliquer sur l'étoile

Trouver

SORTIR

Créez un rdv

Manuel Acevedo
Chef’s Road

Food supply chain

farmer → storage → storage → consumer

Youssef El Houti, Abdelkoudouss Badou
Web Testing

Load Web Application → Extract source code

Report results → Continue

Check for bug → Trigger user action

Read and understand code

About some Innogrants

Acquired by

Renault John  Olivier Crameri
Cyberhaven

Test Report
15 bugs found

program binary

Agile Gibbon
test report

SQLite DB
Library
2 invalid memory accesses
3 memory corruption bugs

Details »

Memcached
Application
2 concurrency bugs
3 resource leaks

Details »

facebook

Realtek RTL8029
Network device driver
4 kernel crashes
1 resource leak

Details »

© Agile Gibbon - 2013
Cloud Management

- End-User Organizations
- SaaS Providers
- PaaS Providers
- IaaS Providers
- Data Centers + Networks

Value chain in public clouds

- Datacenters
- IaaS
- PaaS
- SaaS
- End-Users

About some Innogrants

Internet
Mobile Software Apps

Gallery: Windows Mobile

List Galleries | Browse Images

Find: [ ] Number of displayed rows: [25] [Go]

File Galleries > 大武科技手机个性化信息助手 > 大武智能短信分拣器 > 简单版(Basic Edition) > Windows Mobile平台

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Internet and Mobile Apps

About some Innogrants

Internet & Mobile

Acquired by

Zeno Crivelli

New York City | UNITED STATES
06:08 PM
Thursday, May 12, 2011

Swiss IQ test based on the original board game

ventureKICK
PERL

WHAT THEY SAY

READWRITEWEB
DARING FIREBALL
MASHABLE
Wired
Network Technologies for Mobile

Graphical Use Interface for Microcast prototype for video streaming

About some Innogrants
Software Applications

Complete signage solution at your fingertips

Use your content or customize our templates

Our Website

LCD Display 42" In

6 ft

At Your Locations

LCD Frame 10", 15" In

COMING SOON
[preview access]

Ion Constantinescu
Motion Capture

realtime markerless motion capture at every desk

what is faceshift

faceshift is accurate, effortless, and affordable markerless facial performance capture.

faceshift uses depth cameras such as Microsoft's Kinect to animate rigs in real time.

faceshift works seamlessly for fast facial expressions, head motions, and difficult environments.

Undisclosed acquirer rumored to be Apple

Brian Amberg Thibaut Weise
Video Tracking
Vision & Sailing

Advanced data processing algorithms and devices to help sailors win races.

1. Grab your anemobox
2. Go sailing
3. Get real-time performance diagnostic
4. Share and visualize
Makur

**Figure 1:** Video screening job candidates explained in four steps.
Efficient access to RAW data

RAW Labs

Miguel Branco
Cloud Storage

Today’s cloud services

untrusted international networks

untrusted cloud storage provider

untrusted
WLAN

untrusted
DSL

your laptop

← download  upload →

GCHQ

NSA
Graspeo

Share Knowledge Privately

Hello Graspeo!

Syncing with Peer-to-Peer

Graspeo Server

• Filename
• Time
• Owner

Hello Graspeo!
About some Innogrants

Nowy

Nowy
Know the world around you!

Loïc Gardiol, Amer Chamseddine & Silvi Andrica

Nowy Friends
Know when your friends are nearby

Powered by Nowy

https://nowyapp.com/
**EAR : Enhanced Auditory Reality**

We want to create a bridge between enhanced hearing, wearables and augmented reality. Our vision is to allow everyone, with or without hearing losses, to design and augment their auditory experience. Our technology would process the sounds recorded by microphones and video from a camera to locate sound sources, amplify what we like, silence what annoys us, and inform us about what we hear.

These features require innovative signal processing that cannot be implemented on traditional HAs, which provides tools and data to augment the auditory reality of the user; they also require innovation in human-computer interfaces.
Recent advances in Artificial Intelligence, including the mixture of machine learning with Human Computation, open possibilities that were unthinkable a few short years ago. We leverage these technological gains to achieve a good accuracy in automatically extracting relevant aspects and opinions from texts. We then use this wealth of data to make quality recommendations.
Demographic dynamics and population flows:
Personnalisez votre boutique en ligne avec des recommandations personnalisées

Télécharger GRATUITEMENT
Loïc Baboulaz, Alexandre Catsicas, Julien Lalande, Mathieu Rudelle
Imverse

360° to 3D

www.imverse.ch
Mirrakoi

Daniel Schmitter, Zsuzsanna Püspöki, Pablo Garcia-Amorena
Digitalization of clinical trials
Neural Concept

Deep-Learning Enhanced Engineering

www.neuralconcept.com
INTERNET AND SOFTWARE
ELECTRONICS
OTHER HARDWARE (ROBOTICS, MECHANICS, SENSORS)
ENERGY & ENVIRONMENT
MEDICAL DEVICES & BIOTECHNOLOGY
Foldaway Haptics

www.foldaway-haptics.ch
3seNs – Vacuum Pressure Gauge on a Chip

State-of-the-art

Our solution

Cold cathode

Bayard-Alpert

Semiconductor

NEW!
Wearable sensing

With Feeltronix technology, sensors become imperceptible and can be worn for extended periods. Soft robotic bodies can also benefit from highly compliant integrated sensing systems.
www.creal3d.com
Micro-Display Technologies

Acquired by

Nicolas Abelé
Edge-Lighting Devices

Light shaping by nano-structured waveguides

... as thin as a human hair

Cadmium free

Mercury free

for energy efficient distributed illumination
Technis

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IT

Naïk Londono, Martin Hofmann & Wiktor Bourée

Experience a world, Beyond the Court
DISCOVER / SHARE / HAVE FUN

START

SWISS STARTUPS AWARDS
A New Computer Interface

L’ordinateur sans clavier ni souris est suisse

The Museum of Modern Art, New York
Spads – 3D Imaging

depth imaging

SPAD    CMOS    Time-of-Flight
Vizir

Martijn Bosch & Adrien Bierbaumer
Predictive maintenance in harsh environments?

Optical fiber sensors + smart analytics
Xsensio

CUTTING EDGE TECHNOLOGY
LOW POWER WIRELESS SENSING AND ENERGY HARVESTING

Esmeralda Magally
Nanophotonics Spectroscopy

Samuel Sonderegger
Jean Berney
Lasers & Diodes Materials

- Laser Products
- AllN HEMT at High temperature
- Processing
- Characterizations

Eric Feltin
New Chip Architecture

Federico Angiolini
Srini Murali
INTERNET AND SOFTWARE
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ENERGY & ENVIRONMENT
MEDICAL DEVICES & BIOTECHNOLOGY
A New 3D Printer

Damien Loterie, Paul Delrot
New Vehicle

Robots to preserve life

Every day heroes are risking their lives to help others getting safe. These are firefighters and rescuers operating in natural or industrial disasters. But no one should ever be exposed to hazardous environments.

This simple and natural statement is the root of rovenso’s motivation to build robots than can take care of dangerous tasks when the job needs to get done. Earthquakes, landslides, hurricanes, fires or explosions create complex environments which are usually cluttered with rubbles and sometimes contaminated with chemicals or radiations. Manipulating or moving heavy stuff under these conditions is dangerous for humans but is also extremely challenging for automated systems.

Tomorrow, fully autonomous robots will handle these hazardous tasks for us.

http://www.rovenso.com
Micro-Robots

About some Innogrants Robotics

Benoit Dagon
Christophe Canales
Guillaume Boetsch

KPMG Tomorrows Market Award

VENTURE KICK

FIT fondation pour l'innovation technologique

EPFL Innogrants | 2018
Photonics via Moulding

- Photonics chocolate
  - A colourful technology to taste

- Photonics plastic
  - Colours without additives

- Healthy
- Innovative
- Personalized

✓ Additive-free
✓ On 3D surfaces
✓ Mouldable articles

About some Innogrants Photonics

Auzelyte Vaida & Xie Shenqi

EPFL Innogrants | 2018
Anti-Counterfeiting for Watches
Wobbe Index

Evaluation Kit

The Quantitative Energy Wobbe Index Measurement System (WIMS) can accurately measure the energy content of any Natural Gas or Biogas.

Variations in the energy content of a gas (the Wobbe Index) can lead to a mismatch in the air fuel ratio. This is the main cause of poor performance in terms of ignition, efficiency, emissions, reliability and safety of any appliance that uses the gas.

Our instrument is compact enough to be installed in most gas appliances where it can measure the Wobbe Index before the gas is burnt allowing the air fuel ratio to be adjusted correctly.
Terahertz Transmission

New sources
- from 300 kg to less than 1 kg
- from 500k CHF to 50k CHF
- but, from 100 W to 1mW (!)

Nowadays while several options can be found for sources and detectors... key point: there’s a lack of technical solution for efficient wave-guiding (!)

This is where SWISSto12 wants to play a major role
Swiss Sonic Production

Feed direction

tool

pin

sample

hole

interference

step A

A to B

step B

step C

C to D

step D

Thrust force (in N)

0 50 100 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000

0 25 50 75

0

0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000

Software

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INTERNET AND SOFTWARE
ELECTRONICS
OTHER HARDWARE (ROBOTICS, MECHANICS, SENSORS)
ENERGY & ENVIRONMENT
MEDICAL DEVICES & BIOTECHNOLOGY
2 Birds & 1 Stone – CO2 Transformation

Energy production

Cyclic carbonate production

Cyclic carbonate production @ Biogas upgrading site

PARADIGM SHIFT

Felix Bobbink
Figure 1: (left) Single and multi-effect modules, and (right) Multi-effect modules with internally integrated heat recovery devices.
Medusoil

Microbe cement. Ready to use.
Nanogence

A unique additive for the ideal concrete

Currently, we use up about 40% of world energy in building, in its construction and operations. We are dedicated to developing special additive for sustainable construction and economics. Secondly, we are combining nanotechnology to use the waste materials to bring down the energy demand in building operations such as heating and cooling. Also, with some materials we are developing, we would like to make energy conversion and storage as an integral part of the building, rather being just a mechanical structural unit. We would like to make construction itself more automated to reduce human involvement.

www.nanogence.com
Energy Storage via Air Compression

Clean Energy... 
*From time to time*

Clean Conversion & Storage 
*Based on Compressed Air*

Clean Energy... 
*All the time*

- Sunny or Windy times:  
  STORAGE = Air Compression

- Sunless & Windless times:  
  DISCHARGE = Air Expansion

Sylvain Lemofouet
Energy Generation & Osmosis

28% Energy for cooling

70% Power

Waste Heat

OsmoTech
Patented Technology

helbling

Win a 10-day entrepreneurship training in Boston

Fundación REPSOL

About some Innogrants Energy
Upcoming changes in the electricity production structure

Future situation: better grid quality and stability is achieved through the use of power converters and appropriate control strategies (smart-grid approach)
Daphne Technology

Daphne Technology
Marine Air Pollution Control Opportunity
DISRUPTIVE INNOVATION IN OPTICS FOR SOLAR ENERGY

OUR VISION
Thinkee

About some Innogrants

Electronics
Lironix

Lironix

Smart Windows For Building Integrated Photovoltaics (BIPVs)
GRZ Technologies

About some Innogrants Energy

Claudio Ruch & Noris Gallandat
INTERNET AND SOFTWARE
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ENERGY & ENVIRONMENT
MEDICAL DEVICES & BIOTECHNOLOGY
Microelectrodes for Neuro-Diseases

A size comparison between an existing lead and Aleva’s technology.
Tools for Neurosurgery

Rémi Charrier
Mechanical Robot for Surgery

About some Innogrants

Ricardo Beira

Win a 10-day entrepreneurship training in Boston

DistalMotion®

DistalDriver®

External Positioner

Control Interface

DistalArms®

RCM

Micro manipulators

Medtech
Haptic Robot for Surgeries

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Szymon Kostrzewski
Philippe Bérard

Acquired by
Helping paraplegic patients walk again
Intento

Movement controller (knob)

Allows all patients to benefit from CIMT
Amputee Feels in Real-Time with Bionic Hand

05.02.14 - Dennis Aabo Sørensen is the first amputee in the world to feel sensory rich information – in realtime – with a prosthetic hand wired to nerves in his upper arm. Sørensen could grasp objects intuitively and identify what he was touching while blindfolded.

TWIICE

About some Innogrants

Medtech

TWIICE

Marek Jancik & Tristan Vouga

EPFL Innegrants | 2018
Remote Cardiac Monitoring

About some Innogrants

Srini Murali

Medtech
EEG Buds

Neurological Disorders
A global disease burden

50 Million People Suffer from Epilepsy

62 Million People Suffer from Cerebrovascular Disease

326 Million Suffer from Migraine

244 Million Suffer from Alzheimer Disease and Other Dementias.
Health and Imaging

Leonardo DiCaprio Invests in Emotion-Capture Startup MindMaze

Switzerland-based human computer interfaces startup MindMaze has attracted an investment from none other than Leonardo DiCaprio, who is also joining the company’s board of advisors. The investment is being made as part of a new round of funding that hasn’t closed, and the amount of money DiCaprio is investing wasn’t revealed as part of the announcement.
Medical Imaging System

Alexandre Serov

FluxEXPLORER™ Microvascular imaging

before occlusion  during occlusion  after occlusion

Laser Doppler Perfusion
LOW  HIGH
Medical Imaging System

Visualizing Microcirculation

Acquired by NOVADAQ
Active Wearables

- Temperature
- Force
- Vibration

About some Innogrants

Simon Gallo, Giulio Rognini
Optics for Endoscopy

About some Innogrants

Davor Kosanic
Bastien Rachet

Medtech
Super-Resolution Microscopy

Angular beam scanning holographic microscopy

Viventis Microscopy

Low phototoxicity,
fast multi-position imaging, easy sample mounting

zebrafish

c.elegans

In vivo model systems

mouse

In vitro models (organoids)

brain

retina

www.viventis-microscopy.com
EmbryoSpin

Embryo morphology
Microscopy

Qualitative inspection

Fertilization

Future

Selection

Embryo endogenous chemistry
NMR

Quantitative spectroscopy

Embryo Spin probes

About some Innogrants
Medtech
Microfluidics & Allergies

Nicolas Durand
Fig. 1. Design of the Microfluidic Tissue Processor

Fig. 2. Photographs of the device and the assembled system.
Lumendo (fka Lumigbo)

Andreas Schmocker
Azadeh Khoushabi
Oriane Poupard
Retina Imaging

Pathology
- AMD
- Diabetic retinopathy
- Glaucoma

Early microscopic symptoms:
- Cell density decrease
- Neovascularization

Macrosopic symptoms
- Pressure
- Bleeding
- Oedema
- Impact on vision

Better treatment
New drugs
Monitoring

YEARS

Timothé Laforest, Dino Carpentras, Mathieu Kunzi
VascuSafe

1. Femoral artery
2. Cerebral artery
3. Vasospasm
4. Spasm released

Guillaume Petit-Pierre, Marc Boers
Mano

Artificial Tendon
Biosemic

New screening diagnostic tools based on micro engineering used to develop personalized healthcare.
OncoEffective

Impedance-driven cancer medicine

Cancer patient → Tumor fragments → 1 day drug-perfusion → On-line electric measurements → Bio-impedance Z → Personalized therapy

Direct transfer to wells

1 mm³

Electric measurements drive therapy design
Handheld optical reader for diagnostic test strips
Dispencell

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Georges Muller & David Bonzon
Cell Culture Platform

Sylke Hoehnel & Nathalie Bradenberg

About some Innogrants

Medtech
Personalized medicine
Volumina

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Medtech
Cell Culture Dish Technology

Pierre-Jean Wipff
Notch Inhibitors for Cancer Therapy

Cancer cells need Notch signaling to proliferate and metastasize

- T-ALL
- Breast Cancer
- GSI are currently used in clinical phase
- Colorectal Cancer?
- Prostate Cancer
- Glioblastoma
- Medulloblastoma
- Tumor Angiogenesis
Notch Enhancers

Notch Receptor

Ligand
Twenty Green

We sell a **bioactive** animal feed supplement for **sustainable, ecofriendly, respectful** animal farming, as well as expert consultancy for ad-hoc product formulations.
Coagulation Cascade

Intrinsic Pathway (surface contact)

Extrinsic Pathway (tissue factor)

Heparin (LMWH)

Thrombin (IIa)

Thrombin-Fibrin Clot

Christian Heinis, Andres McAllister
ADC Imaging

Firefly + Luciferase enzyme + Luciferin → Light production

Aleksey Yevtodiyenko & Elena Dubikovskaya
Microbiome Diagnostics

Stool Sample → Extracted DNA → Quantitative profile
Artificial Intelligence technology to provide personalized insights into chronic disease progression and management of patient's health. Personalized recommendation for cardiovascular treatment planning and to reduce the disease progression.