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.
How not to be Sophia Antipolis?

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
AGENDA

INNOVATION AND TECH. TRANSFER
THE INNOGRANTS
ROLE MODELS
ABOUT SOME INNOGRANTS
**Overview Some numbers**

**Campus (2018)**
11,134 students, of whom 2,157 PhD students
347 faculty
3,903 staff (scientific & technical)

**Spending (2018)**
CHF 680M from State budget
CHF 285M other funding (EU, SNSF, private...)
Total: CHF 965M
EARLY AND CONTINUOUS COMMITMENT OF EPFL

2018 Focus on student entrepreneurs, Ygrants
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
VPI - A FACILITATOR BETWEEN TWO WORLDS

VPR

Transdisciplinary Centers & Discovery Projects
Technology Transfer Office (TTO)
Contracts / Licenses / PoC (Enable)

Bachelors / Masters

VPI

Strategic Partnerships
Innovation Park

Alliance - relationships / collaborations with SMEs

Entrepreneurship
Innogrants xgrants

VPE

EPFL Community (Professors, Researchers, Students)

EPFL Innovators

www.epfl.ch/innovation
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
IT’S not about MONEY only: A RICH and DENSE Ecosystem

Advice/Training:

Exposure/networks:

Housing:

A rich ecosystem

More than funding

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)

Start-Up foundation

“Valley of Death”

A to D

E to J
A Rich Ecosystem

www.epfl.ch/innovation/entrepreneurship/start-your-venture

Support to Innovation around EPFL

An exhaustive pdf description is available online
https://short.epfl.ch/startup-support
CLOSE SUPPORT: THE EPFL INNOVATION PARK

- The Innovation Park: 13 buildings for companies partnering & collaborating with EPFL
  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
"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
Mar 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
Sept 04: foundation of NEXThink SA
Avril-Sept 04: Further coaching
Déc. 04: Winner of the "startup competition"
Jul. 07: 2nd round CHF 6M
Apr 06: 1st round CHF 1.6M
Jan 05: 1st pilots with customers
Dec 04: contacts with VCs

As of 2018, more than 150M in funding, more than 300 employees, www.nexthink.com

Generate
Develop
Launch
Grow

A 2-3 year initial phase
EPFL Spin-offs following Logitech

All EPFL start-ups on www.spied.ch

Graph showing the number of EPFL start-ups by year and category from 1994 to 2018. Categories include:
- Others
- Energy-environment
- Sensors
- Electrical-electronics
- Micro-nanotech
- Mechanical
- Medtech
- Biotech
- IT

The pie chart on the right shows the percentage distribution of start-ups by category for the period 2010-2018.
## 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, Index</td>
<td>CHF 150M</td>
</tr>
<tr>
<td>Amazentis</td>
<td>2007</td>
<td>Waypoint, H. Wyss, P. Landolt, A. Hoffmann</td>
<td>CHF 32M</td>
</tr>
<tr>
<td>Aleva Neurotherapeutics</td>
<td>2008</td>
<td>Biomed Inv., BB Biotech, Defi Gestion, Banexi</td>
<td>CHF 44M</td>
</tr>
<tr>
<td>Bicycle Therapeutics Ltd</td>
<td>2009</td>
<td>Novartis Venture, Atlas, SR-One, Vertex</td>
<td>CHF 95M</td>
</tr>
<tr>
<td>Anokion</td>
<td>2010</td>
<td>Versant, Novartis, Novo</td>
<td>CHF 33M</td>
</tr>
<tr>
<td>Lightbend</td>
<td>2010</td>
<td>Greylock, Shasta, Polytech, Intel, IBM</td>
<td>CHF 52M</td>
</tr>
<tr>
<td>Abionic</td>
<td>2010</td>
<td>Polytech, Blue Ocean, Medholdings</td>
<td>CHF 37M</td>
</tr>
<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>
</tr>
<tr>
<td>Akselos</td>
<td>2012</td>
<td>Shell ventures, Innogy ventures</td>
<td>CHF 10M</td>
</tr>
<tr>
<td>L.E.S.S.</td>
<td>2012</td>
<td>VI Partners</td>
<td>CHF 3M</td>
</tr>
<tr>
<td>Cyberhaven</td>
<td>2014</td>
<td>Accomplice</td>
<td>CHF 2M</td>
</tr>
<tr>
<td>Cellestia</td>
<td>2014</td>
<td>FC Capital, PPF-Sotio, ETP Ventures</td>
<td>CHF 28M</td>
</tr>
<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>
</tr>
<tr>
<td>Flyability</td>
<td>2014</td>
<td>Swisscom Ventures, ETF Partners</td>
<td>CHF 16M</td>
</tr>
<tr>
<td>Lunaphore</td>
<td>2014</td>
<td>Zühlke Ventures, Polytech, Occident Group</td>
<td>CHF 8M</td>
</tr>
<tr>
<td>Gamaya</td>
<td>2015</td>
<td>VI Partners, ICOS Capital, Sandoz Foundation</td>
<td>CHF 8M</td>
</tr>
<tr>
<td>Inpher</td>
<td>2015</td>
<td>Polytech, Bowery, Crosslink, JP Morgan</td>
<td>CHF 13M</td>
</tr>
</tbody>
</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>
</tr>
</thead>
<tbody>
<tr>
<td>Snaketech</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>
</tr>
</tbody>
</table>
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>IPO</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC IMMUNE</td>
<td>2003</td>
<td>CHF 125M</td>
<td></td>
</tr>
<tr>
<td>AB2 BIO LTD</td>
<td>2010</td>
<td>CHF 41M</td>
<td></td>
</tr>
<tr>
<td>SOPHIA GENETICS</td>
<td>2011</td>
<td>CHF 140M</td>
<td></td>
</tr>
<tr>
<td>LÉMAN MICRO DEVICES</td>
<td>2012</td>
<td>Undisclosed</td>
<td></td>
</tr>
<tr>
<td>ASCENCEURON</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 Start-ups

- CHF1.5B raised by EPFL spin-offs with venture capital and business angels

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

- **Biocartis**
  - IPO in April 2015 in Brussels

- **Lemoptix**
  - Acquired by (Undisclosed acquirer rumored to be Apple)

- **SenseFly**
  - Acquired by (Rumored to be Apple)

- **Jilion**
  - Acquired by

- **Parrot**
  - Acquired by

- **Aimago**
  - Acquired by

- **BugBuster**
  - Acquired by

- **Sensima Technology SA**
  - Acquired by

- **Novadaq**
  - Acquired by

- **AppDynamics**
  - Bought by Cisco for $3.5B in Jan. 2017

- **DailyMotion**
  - Acquired by

- **Faceshift**
  - Undisclosed acquirer

- **MPS Monolithic Power Systems**
  - Acquired by
EPFL Spin-off 2017-19 Exits

Acquired by DARIX

Acquired by KB Medical

Acquired by Pix4D

Acquired by Bullard

Acquired by Globus Medical

Acquired by Parrot

Now Part of MindMaze

Acquired by Intento

Acquired by Gaitup

Acquired by Mimotec

Acquired by Acrotect Group
EPFL Spin-off Exits

Start-ups

Exits
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

https://short.epfl.ch/spinoff-report

An analysis of EPFL’s spin-offs and its entrepreneurial ecosystem over 30 years
INNOVATION AND TECH. TRANSFER

THE INNOGRANTS

ROLE MODELS

ABOUT SOME INNOGRANTS
**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**.

[www.epfl.ch/innovation/entrepreneurship/innogrants](http://www.epfl.ch/innovation/entrepreneurship/innogrants)
Sept premiers projets dans le giron de l’Innovation Network de l’EPFL

Unique en Europe, ce fonds, destiné à accélérer la concrétisation d’idées internes à l’école, est activement soutenu par L06H.

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

L'école polytechnique fédérale de Lausanne (EPFL) vient d'ouvrir un nouveau champ d'activité avec la création d'un fonds dédié à la valorisation des idées innovantes nées au sein des recherches de l'institution. Ce fonds, créé dans le cadre du projet Innogrants, est destiné à valoriser les innovations technologiques et à favoriser leur transfert vers les entreprises. L'objectif est de permettre aux chercheurs de transformer leurs idées en solutions innovantes qui répondent aux besoins de l'industrie. Les chercheurs peuvent ainsi tirer parti de leurs recherches et contribuer ainsi à l'économie suisse.

La création de ce fonds est un exemple de l'engagement de l'EPFL dans le transfert des connaissances et la valorisation des innovations scientifiques. Cela renforce l'attractivité de l'école pour les entreprises et favorise l'innovation dans le paysage économique suisse.

Innogrants | EPFL Innogrants | 2019
Facts & Figures

850+ requests
129 grants (CHF12.6M)
83 companies created
CHF 39M in new grants
CHF 345M in equity
10 exits (M&As)

College Contacts % Grants %

STI 224.5 26% 53 41%
IC 124 14% 30.5 24%
SB 83.5 10% 16.5 13%
SV 58 7% 14 11%
ENAC 38 4% 2 2%
CDM/CDH 26.5 3% 1 1%
Students 87 10% 4 3%
External 214.5 25% 8 6%
Total 856 129

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

Innogrant vs. Immigrant

Innogrant origin

- CH: 29%
- Western Europe: 37%
- Eastern Europe: 14%
- ROW: 14%
The SNF Spin Funds

Similar to the Innogrants 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

Established in July 2013
4 projects

http://www.nccr-robotics.ch/tech-transfer/startups/spinfund
A Bet on People

with the support of

Innogrants

Young entrepreneurs

EPFL Innogrants | 2019
The Outputs

abionic
aizen
ai'mago
Anemomind
ARTmyn
Attolight
Bright Sensors
C6 Biotech
CREAL3D
Cytomec
DARIX
DARWIN
Digital Optim
Distal Motion
Dispenceel
Chef's Road
Excellence Technologies
faceshift
Farbest 3D
GaiaSens
GliaPharm
GRZ Technologies
GTX Medical
HappyNumbers.com
imina Technologies
imverse
InnoC
intento
Jillion
Lemoptix
LESS
Lucentix
Lumendo
Lunaphere Technologies
Made in Local
Minsh
Morphotonix
Nanogen
Nanolive
Nanogya SA
Playful Vision
prediggo
RAW Labs
Resistell
routeRANK
ravenso
Saito Tobacco
SENSORS Neuroprosthetics
Shoelace Wireless
StereoTools
Swiss
Swiss Lumix
SUN Bioscience
TasteHit
ThinkEE
Viventis
Wippso
SmartCardia
STHAR
TasteHit
Twenty Green
Volumuna Medical
Xsensio

All EPFL start-ups on www.spied.ch
EPFL 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

ventures@EPFL
Participez à l'innovation en marche, découvrez les idées du futur.

Avec
Pierre Chappaz
Fondateur de Kelkoo
ventures à Yahoo, $500M

Eric Favre
Inventeur de Nespresso
Fondateur et CEO de Monodora

Le 24 novembre
Auditorium SG5
Inscriptions: www.ventures.ch

ventures@Life Sciences
Le 2 juin 2006, de 9h à 14h30
Auditorium C01, EPFL
Inscriptions: www.ventureslab.ch/fr/ventures.asp

ventures@EPFL
Can a world-class high tech start be built in Europe? Learn from most successful entrepreneur

Avec
Raymond Andrieu
Fondateur et CEO de Bioring

Didier Coquoz
CEO de Xigen

e de nombreux innovateurs, inventeurs, et entrepreneurs biotech et medtech

ventures@EPFL
The BioAlps region: the right place to launch your start-up? Learn from the most successful entrepreneurs.

With
Andrea Pfeifer
Founder & CEO - AC Immune
From Inception to a $1 billion Biotech Company in 4 years

Philippe Dro
CEO - Endoart
From Inception to a $125M M&A

Vincent Matel
CEO Addex Pharmaceuticals
From Inception to a CHF137M IPO

March 30th, 2007
from 13h30 to 17h00, SG1, EPFL
Registrations: www.ventureslab.ch/fr/ventures.asp

IT'S ALSO ABOUT ROLE MODELS
IT’S ALSO ABOUT ROLE MODELS

The I&C GSA Entrepreneurship Pizza Talk series
Interested in Start-ups: join us to learn from successful entrepreneurs
EPFL – INM202 at 12h15
Pizza will be served starting at 12h00

Friday October, 3 rd
Jochen Mundinger, founder and CEO
Selling your start-up idea

Friday October, 10th
Vincent Schickel, founder and CEO
The day of a start-up CEO

Friday October, 24th
Life after PhD: the end of a journey?

Venture Ideas @ EPFL
Innov, surprendre, séduire: l’aventure du Paléo Festival

Vendredi 5 décembre, 2008
De 12h30 à 14h00,
PO – Polydôme, EPFL

Inscriptions: www.venturelab.ch/fr/videos.asp

Venture Ideas @ EPFL
Networking 2.1.1, made in Switzerland

With
Stéphane Doutriaux
Founder and CEO
Poleca

Barbara Yersin and Jonathan Minin
Co-founders
MindMaze

Dominic Senn
Co-founder and CEO
Bassiont

Neil Rimer
Co-founder and partner
Index Ventures

May 1st
from 13h00 to 16h45
Registrations: www.venturelab.ch

Venture Ideas @ EPFL
Swiss ways of building start-ups

Robin Cornelius
Founder and Executive Director of the Startup

Hubert Lorenz
Founder and CEO
Mimoteur

Dominik Grollmund
Co-founder and CEO
Wypala

Venture Ideas @ EPFL
with Yahoo! and Doodle

November 4th, 2009

Rich Riley
Senior Vice President Yahoo! Europe

Paul E. Sevinç
CTO
Doodle AG
venture ideas @ EPFL
Swiss ways of building start-ups

Thursday, April 21st, 2011
from 13:45 to 16:30 (door opening 13:15)
Rolex Learning Center, Forum, EPFL

Speaker: Nader Dorrazi, co-founder and CEO of Biscuits

Mandatory registration: www.venturelab.ch (venture ideas)

venture ideas@EPFL
Sharing an entrepreneur’s path

Tuesday, May 8, 2012
from 10:00 to 11:30 (door opening 09:50)
CM1 121, EPFL

Speaker: Craig H. Barrett, President of Qualcomm Athens, Inc.
Dr. Craig H. Barrett joined Qualcomm in May 2011 as President of Qualcomm Athens, Inc. He served as president and chief executive officer of Athens, and is a director on the company’s board from 2003 until its 2011 acquisition by Qualcomm.
Dr. Barrett previously served as Athens’ vice president of technology from 2002 until 2003. He holds PhD and Master of Science degrees from Stanford Univer-
sity, as well as a Bachelor of Electrical Engineering degree and Bachelor of Science degree in pure mathematics and physics from Sydney University in Australia. Dr. Barrett has also earned 28 patents in a variety of wireless and related technologies.

venture ideas@EPFL
Swiss ways of building start-ups

Friday, November 4, 2011
from 13:50 to 16:30 (door opening 13:30)
Auditorium CE 2, EPFL

Speakers: Franck Riboud, Chairman and CEO Danone
Martin Odersky, Professor EPFL, Chairman Typesafe
Kamal Besseghir, CEO Debipharm SA

Only 100 seats available - mandatory registration: www.venturelab.ch
Startup Champions @ EPFL
Swiss Success: world Impact

Wednesday, April 22nd, 2015
from 14:00 - 17:00 (doors open 13:30)
Roelx Learning Center Forum, EPFL

Registration free but mandatory: www.venturelab.ch/SC

Thursday, November 6th, 2014
from 12:00 to 14:00, Room BC420, EPFL

How to build a Billion dollar Company

Thursday, February 19th, 2015
from 12:30 to 13:30, Roelx Learning Center, EPFL

Registration is mandatory. Register for free on www.founder.org/tickets

EPFL Innogrants | 2019
**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

**Keynote**

Tej Tadi
Founder & CEO Mindmaze
Switzerland’s unicorn

**Seed Night pitch competition**

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

Join us to vote for the best startup.

World-class STARTUPS. Swiss made.

---

**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

**Keynote**

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

**Seed Night pitch competition**

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

Join us to vote for the best startup.

World-class STARTUPS. Swiss made.

---

**Startup Champions @ EPFL**

**The multiple lives of:**

**Date:** Wednesday, October 25th, 2017,
**Time:** from 17:30 – 19:00 (doors open at 17:00)
**Place:** Rolex Learning Center Forum, EPFL

**Keynotes:**

- From founder of Siri to Senior Software Engineer at Apple
  Didier Guzzetti

- From founder of KB Medical, to Vice President, International Product Development, Robotics at Globus Medical
  Seymon Kozlowski

**Free but mandatory registration:** www.venturelab.ch/SUC

**Student’s special:** Learn more about how EPFL supports students with a Business Idea and get inspired by our young EPFL startups, tonight at 19:00 at New Pizza House, mandatory registration link at www.epfl.ch/innovation/entrepreneurship/startup-champions
Startup Champions Seed Night @ EPFL

Thursday, April 11th, 2019
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

Keynote:

Madiha Derouazi
Founder and CEO Amal Therapeutics:
«Biotech. alone and over 37 million raised: story of AMAL Therapeutics.»

Steve Anavi
Co-founder and President of Qonto:
«My journey from engineer to entrepreneur.»

Seed Night pitch competition

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!
Trying

http://lausanne.startupweekend.org
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 controlled to a big pie that one only controls at 10%, and this may be a limiting factor."

Tags: Switzerland

This entry was posted on Friday, May 28th, 2010 at 9:08 am and is filed under Silicon Valley and Europe. You can follow any responses to this entry through the RSS 2.0 feed. You can leave a response, or trackback from your own site.

Tags
Age Biotech Boston Business Angels China Cluster Crisis Créateurs Culture EDA Entrepreneurship EPFL Equity Europe Facebook Failure Finland Founder Gazelles Google Growth Immigrant Innovation Intellectual Property IPO Kleiner Perkins Obama
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 INNOCRANTS
ROLE MODELS
ABOUT SOME INNOCRANTS
<table>
<thead>
<tr>
<th>PROJECT</th>
<th>LABORATORY (SCHOOL)</th>
<th>PEOPLE</th>
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<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>
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<tr>
<td>Cytomect</td>
<td>Orthopaedic Research Division (STI)</td>
<td>Tom Quinn</td>
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<td>DAAV technogies</td>
<td>Distributed Information Systems Laboratory (IC/LSIR)</td>
<td>Jie Wu</td>
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<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>
</tr>
<tr>
<td>Anokion</td>
<td>Merck Serono Chair in Drug Delivery (SV/LMRP)</td>
<td>Jeff Hubbell</td>
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## Innogrants - 2006

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<td>Fastree 3D</td>
<td>Processor Architecture Laboratory (IC/LAP)</td>
<td>Cristiano Niclass</td>
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<td>Medical Imaging System</td>
<td>Biomedical Optics Laboratory (STI/LOB)</td>
<td>Alexandre Serov</td>
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<td>Biocomposites</td>
<td>Laboratory of Composite and Polymer Technology (STI/LTC)</td>
<td>Laurence Mathieu</td>
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<td>Molecule Modelisation</td>
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<td>Payal Kapor</td>
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<td>Laboratory of Quantum Optoelectronics (SB/LOEQ)</td>
<td>Samuel Sonderreger</td>
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<td>Zeno Crivelli</td>
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<td>Inocs</td>
<td>Integrated Systems Laboratory (STI/IC)</td>
<td>Srinivasan Murali</td>
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<td>RouteRANK</td>
<td>Laboratory for Computer Communications and Applications (IC/LSA2)</td>
<td>Jochen Mundinger</td>
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<td>Prediggo</td>
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<td>Vincent Schickel</td>
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<td>Enairys</td>
<td>Industrial Electronics Laboratory (STI/LEI)</td>
<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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## Innogrants - 2008

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<td>DB4all</td>
<td>Database Laboratory (IC/LBD)</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>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>
<td>Microsystems Laboratory (STI/LMIS4)</td>
<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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<tr>
<td>Madeinlocal</td>
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<td>Manuel Acevedo</td>
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## Innogrants - 2009

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<tr>
<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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<tr>
<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>
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<tr>
<td>Imina</td>
<td>Robotic Systems Laboratory 2 (STI/LSRO2)</td>
<td>Guillaume Boetsch / Benoit Dagon / Christophe Canales</td>
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<td>GoldenMMA</td>
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<td>Bastien Rachet</td>
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<td>Operating Systems Laboratory (IC/LABOS)</td>
<td>Jean-Philippe Martin Flatin</td>
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<td>Nicolas Durand</td>
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<td>Samantree</td>
<td>Laboratory of Physical Chemistry of Polymers and Membranes (SB/LCPPM)</td>
<td>Davor Kosanic</td>
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<td>BugBuster</td>
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## Innogrants - 2011

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<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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<td>L.E.S.S. - Nanofiber illuminator</td>
<td>STI Scientists Group(STI/GR-STI)</td>
<td>Yann Tissot &amp; Simon Rivier</td>
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<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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<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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![Mindmaze](image1.png)

![Swiss12](image2.png)

![Azbooka](image3.png)

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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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<tr>
<td>Cellestia Biotech</td>
<td>Prof. Radtke's Unit (SV/UPRAD)</td>
<td>Rajwinder Lehal</td>
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<tr>
<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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<tr>
<td>Nanolive - super-resolution microscopy</td>
<td>Group Depeursinge (STI/GR)</td>
<td>Yann Cotte</td>
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<tr>
<td>Morphotonix</td>
<td>Microsystems Laboratory 1 (STI/LMIS1)</td>
<td>Shenqi Xie &amp; Vaida Auzelyte</td>
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<tr>
<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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<td>SmartCardia</td>
<td>Embedded Systems Lab. (STI/ESL)</td>
<td>Srin Murali</td>
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<td>Shoelace Wireless</td>
<td>Laboratory of Algorithmic Research on Networked Information (IC/ARNI)</td>
<td>Lorenzo Keller</td>
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## Innogrants - 2013

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<tr>
<td>Playfulvision</td>
<td>Computer Vision Laboratory (IC/CVLAB)</td>
<td>Horesh Ben Shitrit</td>
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<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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<td>Imperix</td>
<td>Industrial Electronics Laboratory (STI/LEI)</td>
<td>Simon Delalay &amp; Nicolas Cherix</td>
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<td>CodeTickler / Cyberhaven</td>
<td>Dependable Systems Lab (IC/DSLAB)</td>
<td>Cristian Zamfir</td>
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<td>G-Therapeutics</td>
<td>Brain &amp; Mind Institute (SV/BMI)</td>
<td>Vincent Delattre</td>
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<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>
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<td>Oncoeffective</td>
<td>Microsystems Laboratory 4 (STI/LMIS4)</td>
<td>Robert Meissner</td>
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*EPFL Innogrants | 2013*
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<tr>
<td>Xsensio</td>
<td>Nanoelectronic Devices Lab (STI/NANOLAB)</td>
<td>Esmeralda Magally</td>
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<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>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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<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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<td>SensArs Neuroprosthetics</td>
<td>Translational Neural Engineering Laboratory (STI/TNE)</td>
<td>F. Petrini, S. Raspopovic, M. Capogrosso</td>
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<td>Laboratory of Stem Cell Bioengineering (SV/LSCB)</td>
<td>Sylke Hoehnel &amp; Nathalie Bradenberg</td>
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<td>Real-Time Coordination &amp; Dist. Interact. Syst. (STI/REACT)</td>
<td>Andrii Vozniuk</td>
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<td>Mario Zaiss &amp; Duncan Sutherland</td>
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<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</td>
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<td>Amélie Béduer &amp; Thomas Braschler</td>
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<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>
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<td>Alexei Kounine &amp; Christopher Burger</td>
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<td>Swiss Plasma Center (SB/SPC)</td>
<td>Mario Michan</td>
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<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>Christian Heinis, Andres McAllister</td>
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<td>Robotic Systems Laboratory (STI/LSRO)</td>
<td>Simon Gallo, Giulio Rognini</td>
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<td>Chef’s Road</td>
<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>Dispencell</td>
<td>Stem Cell Dynamics Laboratory (SV/LDCS)</td>
<td>Georges Muller &amp; David Bonzon</td>
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<td>Group Kayal (STI/GR_KA)</td>
<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>Clément Javerzac-Galy &amp; Nicolas Piro</td>
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<td>Laboratoire de Systèmes Robotiques (STI/LSRO)</td>
<td>Marek Jancik &amp; Tristan Vouga</td>
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<td>Defitech foundation chair in Brain-Machine interface (STI/CNBI)</td>
<td>Naik Londono</td>
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<td>Laboratory of Biomedical Orthopedics (STI/LBO)</td>
<td>Andreas Schmocker, Azadeh Khoushabi</td>
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<td>Laboratory of Materials for Renewable Energy (SB/LMER)</td>
<td>Noris Gallandat, Claudio Ruch</td>
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<td>Vincent Gajdosik, Tomas Sluka</td>
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<td>Powder Technology Laboratory (STI/LTP)</td>
<td>Abhishek Kumar</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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<tr>
<td>Mirraccle</td>
<td>Biomedical Imaging Laboratory (STI/LIB)</td>
<td>Daniel Schmitter, Zsuzsanna Püspöki, Pablo Garcia-Amorena</td>
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<tr>
<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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<tr>
<td>Retina Imaging-</td>
<td>Laboratory of Applied Photonic Devices (STI/LAPD)</td>
<td>Timothé Laforest, Dino Carpentras, Mathieu Kunzi</td>
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<td>EarlySight</td>
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<td>Tomoprint</td>
<td>Laboratory of Applied Photonic Devices (STI/LAPD)</td>
<td>Damien Loterie, Paul Delrot</td>
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<td>VascuSafe</td>
<td>Microsystems Laboratory 4 (STI/LMIS4)</td>
<td>Guillaume Petit-Pierre, Marc Boers</td>
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<td>EmbryoSpin</td>
<td>Microsystems Laboratory 1 (STI/LMIS1)</td>
<td>Marco Grisi, Marc Conley</td>
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<td>Instoa</td>
<td>Operating Systems Laboratory (IC/LABOS)</td>
<td>Nicolas Gobet</td>
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<tr>
<td>Medusoil</td>
<td>Soil Mechanics Laboratory (ENAC/LMS)</td>
<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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<th>PEOPLE</th>
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<td>Reconfigurable Robotics Lab (STI/RRL)</td>
<td>Marco Salerno, Stefano Mintchev</td>
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<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>
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<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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<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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<td>3D MetalPrinting</td>
<td>Laboratory of Thermomechanical Metallurgy (STI/LMTM)</td>
<td>Nikola Kalentics</td>
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<td>GoBeyond</td>
<td>Optics and Photonics Technology Laboratory (STI/OPT)</td>
<td>Nicolas Decharmes, Raphael Barbey</td>
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<td>NeuralSoft</td>
<td>Laboratory for Soft Bioelectronic Interfaces (STI/LSBI)</td>
<td>Nicolas Vachicouras, Ludovic Serex, Florian Fallegger</td>
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<td>FloChIP</td>
<td>Laboratory of Systems Biology and Genetics (SV/LSBG)</td>
<td>Riccardo Dainese</td>
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<td>Bionomous</td>
<td>Robotic Systems Laboratory (STI/LSRO)</td>
<td>Frank Bonnet</td>
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<td>Warp Coding</td>
<td>Operating Systems Laboratory (IC/LABOS)</td>
<td>Nikolche Mihajlovski</td>
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<tr>
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<td>Water Probe</td>
<td>Laboratory for fundamental BioPhotonics (STI/LBP)</td>
<td>Orly Tarun</td>
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<tr>
<td>Visual Structure</td>
<td>Swiss Finance Institute (CDM/SFI)</td>
<td>Semyon Malamud and Paul Jefferies</td>
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INTERNET AND SOFTWARE

ELECTRONICS

OTHER HARDWARE (ROBOTICS, MECHANICS, SENSORS)

ENERGY & ENVIRONMENT

MEDICAL DEVICES & BIOTECHNOLOGY
Travel Planning

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.

Jochen Mundinger
Recommendation Solution

Patented Technology
Profile Targeting
Catalog Modeling
Marketer Tools

Intelligent Cross Selling
Smarter Search
Dynamic Merchandising
1 to 1 Marketing

prediggo Solutions

"Our online conversion rate went up 50%"
Moevenpick AG.

Vincent Schickel

EPFL Innogrand 2019
A Social Network

Barbara Yersin, Jonathan Maim
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.
Local Information
Chef’s Road

Food supply chain

farmer

Transport

storage

Transport

storage

consumer
Web Testing

Load Web Application → Extract source code → Read and understand code

Report results → Continue → Trigger user action

Check for bug →  

Acquired by AppDynamics

Renault John Olivier Crameri

About some Innogrants

EPFL Innogrants | 2019
Cyberhaven

About some Innogrants

Internet
Cloud Management

Value chain in public clouds

End-User Organizations

SaaS Providers

PaaS Providers

IaaS Providers

Data Centers + Networks

About some Innogrants

Internet
Mobile Software Apps

Gallery: Windows Mobile

File Galleries
- 大武科技手机工具箱
  - 大武.WindowsMobile工具箱
  - 大武.WindowsMobile平台
- 大武科技手机个性化信息助手
  - 大武.WindowsMobile平台

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<td>454.88 KB</td>
<td>Tue 02 of Feb, 2010</td>
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Jie Wu
Internet and Mobile Apps

Soon to be released!

SublimeVideo
HTML5 Video Player

Acquired by

Daily motion

New York City | UNITED STATES

06:08 PM
Thursday, May 12, 2011

Swiss IQ test based on the original board game

About some Innogrants

EPFL
Network Technologies for Mobile

Graphical Use Interface for Microcast prototype for video streaming

Win a 10-day entrepreneurship training in Boston
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]
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.
Video Tracking

Acquired by
Second Spectrum

Horesh Ben Shitrit
Vision & Sailing

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

How it Works

1. Grab your anemobox
2. Go sailing
3. Get real-time performance diagnostic
4. Share and visualize
Figure 1: Video screening job candidates explained in four steps.
Efficient access to RAW data
Cloud Storage

Today’s cloud services

Untrusted international networks

Untrusted cloud storage provider

Untrusted WLAN

DSL untrusted

GCHQ

NSA

Download

Upload
Graspeo

Share Knowledge **Privately**

**Hello Graspeo!**

Syncing with Peer-to-Peer
Nowy

Know the world around you!

Loïc Gardiol, Amer Chamseddine & Silvi Andrica

https://nowyapp.com/
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.
Social Thermodynamics Applied Research

Demographic dynamics and population flows:
Personnalisez votre boutique en ligne avec des recommandations personnalisées

Télécharger GRATUITEMENT
Loïc Baboulaz, Alexandre Catsicas, Julien Lalande, Mathieu Rudelle
360° to 3D

www.imverse.ch
Digitalization of clinical trials
Neural Concept

Deep-Learning Enhanced Engineering

www.neuralconcept.com
Warp Coding

Rapidoid

Intelligent web platform for rapid, model-driven development

Fragile code
Technical complexity
DIY Security
INTERNET AND SOFTWARE

ELECTRONICS

OTHER HARDWARE (ROBOTICS, MECHANICS, SENSORS)

ENERGY & ENVIRONMENT

MEDICAL DEVICES & BIOTECHNOLOGY
Foldaway Haptics

Marco Salerno, Stefano Mintchev

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

State-of-the-art

Cold cathode

Bayard-Alpert

Our solution

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.
Micro-Display Technologies

Acquired by

Nicolas Abélé
Edge-Lighting Devices

Light shaping by nano-structured waveguides

... as thin as a human hair

Cadmium free
Mercury free – 20 µm

for energy efficient
distributed illumination

Yann Tissot
Simon Rivier
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
Predictive maintenance in harsh environments?

Optical fiber sensors + smart analytics
Xsensio

CUTTING EDGE TECHNOLOGY
LOW POWER WIRELESS SENSING AND ENERGY HARVESTING
Nanophotonics Spectroscopy

Samuel Sonderegger
Jean Berney
Lasers & Diodes Materials

Laser Products

AllN HEMT at High temperature

Processing

Characterizations
New Chip Architecture

Federico Angiolini
Srini Murali
Automated Chip Design
INTERNET AND SOFTWARE
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ENERGY & ENVIRONMENT
MEDICAL DEVICES & BIOTECHNOLOGY
3D Metal Printing

3D LSP multilayered device

Patented by EPFL
A New 3D Printer
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 rubble 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
Photonics via Moulding

 Photonics via Moulding

✓ Healthy
✓ Innovative
✓ Personalized

 Photonics™ chocolate
- A colourful technology to taste

 Photonics™ plastic
- Colours without additives

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

Auzelyte Vaida & Xie Shenqi

About some Innogants Photonics
Anti-Counterfeiting for Watches

Nasser Hefyene
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

EMILE DE RIJK
ALESSANDRO MACOR
Swiss Sonic Production

[Diagram with labels: Feed direction, tool, pin, sample, hole, interference, steps A, A to B, B, C, C to D, D, Thrust force (in N), Feed in Z direction (in μm)]

Csaba Laurenczy

About some Innogrants | Software

EPFL Innogrannts | 2019
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
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.
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.
Energy Storage via Air Compression

Clean Energy... 
From time to time

Clean Conversion & Storage 
Based on Compressed Air

Clean Energy... 
All the time

Clean Energy...

- Sunny or Windy times: 
STORAGE = Air Compression

- Sunless & Windless times: 
DISCHARGE = Air Expansion

(Sylvain Lemofouet)
Energy Generation & Osmosis

- 28% Energy for cooling
- 70% Power

Energy Consumption

Waste Heat

OsmoTech

Patented Technology

helbling

Win a 10-day entrepreneurship training in Boston

Fundación REPSOL

Elodie Dahan
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

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

OUR VISION
Thinkee

About some Innogrants Electronics

Nastaran Asadi Zanjani, Johann Bigler & Jean-Charles Fosse
Lironix

About some Innogrants Energy

Giuseppe Sforazzini & Sergio Allegri

LIRONIX
Smart Windows
For Building Integrated Photovoltaics (BIPVs)
GRZ Technologies

Claudio Ruch & Noris Gallandat
INTERNET AND SOFTWARE
ELECTRONICS
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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

Tools for Neurosurgery

Tools for Neurosurgery

Tools for Neurosurgery
Mechanical Robot for Surgery
Haptic Robot for Surgeries

Acquired by
Helping paraplegic patients walk again
Intento

Movement controller (knob)

Allows all patients to benefit from CIMT

Andrea Maesani & Andrea Biasiucci
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

Marek Jancik & Tristan Vouga

About some Innogrants Medtech
Remote Cardiac Monitoring

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 people suffer from migraine
24.4 million people suffer from Alzheimer disease and other dementias.
Leonardo DiCaprio Invests in Emotion-Capture Startup MindMaze

Switzerland-based human computing 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

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

Simon Gallo, Giulio Rognini
Optics for Endoscopy

Davor Kosanic
EPFL, Laboratory of Physical Chemistry of Polymers and Membranes

Bastien Rachet
Davor Kosanic

Win a 10-day entrepreneurship training in Boston

GEBERT RÜF STIFTUNG
WISSENSCHAFT, BEWEGEN

Medtech

EPFL InnoGrants | 2019
Super-Resolution Microscopy

Angular beam scanning holographic microscopy

Viventis Microscopy

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

In vivo model systems
In vitro models (organoids)

www.viventis-microscopy.com
EmbryoSpin

Fertilization

Embryo morphology
Microscopy

Qualitative inspection

Embryo endogenous chemistry
NMR

Quantitative spectroscopy

EmbryoSpin probes

Future Selection
Highly Sensitive Microscopy

GoBeyond: a groundbreaking tool for fluorescence-based analyses
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
- Neovascularure

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

YEARS

Better treatment
New drugs
Monitoring

Timothé Laforest, Dino Carpentras, Mathieu Kunzi
VascuSafe

1. Femoral artery

2. cerebral artery
   vasospasm
   VascuSAFE

3. VascuSAFE
   spasm released

4. VascuSAFE
mano

Artificial Tendon
NeuralSoft

Nicolas Vachicouras, Ludovic Serex, Florian Fallegger
FloChIP

About some Innogrants
**Biosemic**

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

Impedance-driven cancer medicine

Cancer patient → Biopsy → Tumor fragments → Direct transfer to wells → 1 day drug-perfusion → On-line electric measurements → Bio-impedance Z

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

About some Innigrants

Georges Muller & David Bonzon

Dispencell

Medtech
Cell Culture Platform

About some Innogrants

Sylke Hoehnel & Nathalie Bradenberg

EPFL Innogrants | 2019
Personalized medicine
Volumina

About some Innogrants

Medtech

Amélie Beduer & Thomas Braschler

AdiPearl
- Moderate to high volume / physiological persistence
- no scar, no fibrosis, no cell death

Persistence

Oncoplasty
small volumes

Silicone implants
Fibrosis

Flaps
Donor site scar

Lipofilling
Cell death

Volume (mL)

10 50 100 200
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

Viktoria Reinmüller
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.
FXII Inhibitor

Coagulation Cascade

Intrinsic Pathway (surface contact)

Extrinsic Pathway (tissue factor)

Heparin (LMWH)

Hirudin/Hirulog

Thrombin (IIa)

Xa

|Xa

|Xa

aPTT

PT

Courtesy of VTI

MedsSlides.com
ADC Imaging

Firefly + Luciferase enzyme + Luciferin → Light production
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.
http://bionomous.ch/