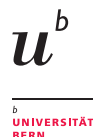
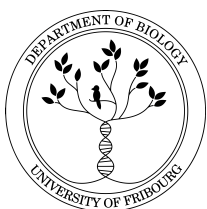
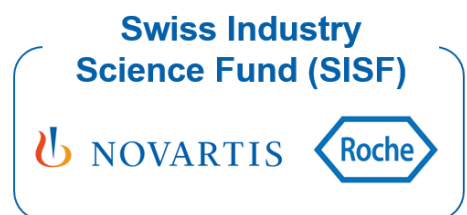


June 11 - 12, 2018, Centre Loewenberg, Murten

Patenting in Life Sciences

Workshop Booklet

With kind support from:



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(Please find space for your notes at the end of this booklet)

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Program Overview

Monday, 11th of June

Time	Topic
9:00 – 9:45 a.m.	Arrival of participants, registration, check-in & coffee
9:45 – 10:00 a.m.	Opening <i>Prof. Urs Greber, President Life Sciences Switzerland (LS2)</i>
10:00 – 12:00 a.m.	Patents: what is it all about? <i>Prof. Heinz Mueller, Clinical Biochemistry, University of Basel; Swiss Federal Institute of Intellectual Property, Berne</i>
12:00 – 12:30 a.m.	Participants' welcome round - <i>Who are you? / What do you do?</i> - <i>Why are you here?</i>
12:30 a.m. – 1:30 p.m.	Lunch
1:30 – 2:30 p.m.	Protecting IP during commercialization and in a SME <i>Dr. Stefan Emler, SmartGene, Zug</i>
2:30 – 3:45 p.m.	Defend your IP rights <i>Dr. Mark Schweizer, Swiss Federal Patent Court</i> <i>Prof. Herbert Zech, Life Sciences Law, University of Basel</i>
3:45 – 4.00 p.m.	Introduction to workshops "Protect, Profit, Prosper": <ul style="list-style-type: none"> • Patents (Heinz Mueller, Christian Moser) • Commercialization (Stefan Emler, Jean-François Denis) • Defense (Herbert Zech, Mark Schweizer)
4:00 – 4:30 p.m.	Coffee Break
4:30 – 7:00 p.m.	Workshops (part I) "Protect, Profit, Prosper"
7:00 – 8:30 p.m.	BBQ dinner on-site
09:00 p.m. – max. 11:30 pm	Free exchange & networking among participants & speakers

Tuesday, 12th of June

Time	Topic
7:00 – 8:00 a.m.	Breakfast & room check-out (rooms have to be freed!)
8:15 – 9:15 a.m.	Ethical aspects of patenting <i>Dr. Anna Deplazes, Institute for Biomedical Ethics and History of Medicine, University of Zurich</i>
9:15 – 10:00 a.m.	Patenting in Swiss academic institutions <i>Dr. Raluca Flükiger, Swiss University Technology Transfer, University of Geneva</i>
10:00 – 10:30 a.m.	Coffee Break
10:30 a.m. – 12:30 p.m.	Workshops (part II) “Protect, Profit, Prosper”
12:30 – 1:30 p.m.	Lunch
1:30 – 3:30 p.m.	Presentation of Workshop results
3:30 – 4:00 p.m.	Coffee Break
4:00 – 4:30 p.m.	Hands-on introduction to patent searches <i>Dr. Christian Moser, Swiss Federal Institute of Intellectual Property, Berne</i>
4:30 – 5:00 p.m.	Career opportunities in the patent field <i>Prof. Heinz Mueller, Clinical Biochemistry, University of Basel; Swiss Federal Institute of Intellectual Property, Berne</i>
5:00 p.m.	Closing remarks, feedback, and departure

Our Lecturers

In the order of appearance

Urs Greber

Professor, Institute of Molecular Life Sciences, University of Zurich

Urs Greber has been trained in cell and molecular biology and virology at the Scripps Research Institute La Jolla, and Yale University, USA. He was a START fellow of the Swiss National Science Foundation, became Assistant Professor at the University of Zurich (UZH), and was promoted to Associate Professor, and Full Professor. Urs Greber is an elected member of the European Molecular Biology Organisation (EMBO), the president of the largest non-profit organization for Life Sciences in Switzerland (LS²), and a cofounder of a Biotech Start-Up company. He is an expert in cell biology and molecular genetics of virus infections. He made pioneering contributions in virus-receptor interactions, virus entry and uncoating, membrane traffic, cytoplasmic transport and DNA import into the nucleus. He published over 110 peer reviewed papers and reviews in journals, such as Cell, Nature Cell Biology, Nature Communications, Nature Nanotechnology, Cell Host & Microbes, Journal of Cell Biology, EMBO Journal, PNAS USA, ACS Nano, ACS Infectious Diseases, Cell Death & Disease, Journal of Cell Science, PLoS Pathogens, Journal of Virology, Cellular Microbiology, Traffic, PLoS ONE or Biophysical Journal. His recent work expands towards systems analyses, innate immunity and cell-cell transmission of human respiratory DNA and RNA viruses.



Heinz Müller

Swiss Federal Institute of Intellectual Property IPI

Heinz Müller is Professor emeritus for medical biochemistry at the University of Basel and Patent Expert at the Swiss Federal Institute of Intellectual Property in Bern. He was educated as a biochemist at the ETH Zurich, where he also received his PhD in 1983. He was then setting up a research lab at the Department of Hematology at the University Hospital Zurich. In 1985, he moved to the US to work for several years at different research institutions in San Diego (Veterans Administration Hospital San Diego and UCSD, Scripps Research Institute) and Chicago (Northwestern University). In 1991 he returned to Switzerland to work as a principal investigator in breast cancer research at the University of Basel. From this university, he received his Venia docendi and the title of a professor. In 2002, he started working in the patent department of the Swiss Federal Institute of Intellectual Property in Bern while remaining a regular lecturer in biochemistry at the medical faculty of the University of Basel. At the Swiss Federal Institute of Intellectual Property, he is responsible for training and continuous education at the patent department and the interaction with Swiss universities. He also teaches intellectual property law at different Swiss universities, including the Universities of Basel, Bern and ETH Zurich. These courses are aimed in particular for life science graduate students and students for medical technology. He also has written extensively on a number of pertinent articles for newspapers, magazines and other publications on the topic of intellectual property.



Heinz Müller

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Stefan Emler

CEO, SmartGene®

Born in Germany, studied human medicine in Munich/D and Geneva/CH. Clinical training in Internal Medicine, Infectious Diseases and Laboratory Medicine, research activity in molecular microbiology in Geneva/CH and in the US. Worked as lab director for Medica Med. Laboratorien AG, a Zürich-based private-owned diagnostic laboratory and subsequently as consultant and medical director for several big and medium-sized diagnostic companies. Over several years expert for the EU-Commission, to evaluate Horizon projects; member of several international organizations for molecular diagnostics and microbiology, recent work as elected expert for CLSI, for the standardization of lab methodology with focus on molecular microbiology. Started-up SmartGene® in 2000, a self-funded company which distributes cloud-based software application services for the analysis and hosting of genetic data, with focus on infectious organisms. Development of a proprietary technology platform IDNS® (Integrated Database Network System), with several EU and US patents, integrating database, web- and bio-informatics technology. Long-year experience in application-service-provider business, marketing and R&D leadership. Active and passive involvement in patenting and trademarking in CH, EU, US, CA and China; experience with patent litigation in the US.



Mark Schweizer

President of the Swiss Federal Patent Court

Mark Schweizer is President of the Swiss Federal Patent Court. Until the end of 2017, he worked with a law firm in Zurich, recognized as a leading practitioner in patent law by Who's Who Legal Switzerland. He is Privatdozent for legal sociology, legal theory and civil procedure at the University of St. Gall and lectures in intellectual property law at ETH Zurich. He studied law in Zurich and the University of Michigan Law School, Ann Arbor, USA. Mark was a delegate of the International Committee of the Red Cross in Afghanistan and Uganda, and a Senior Research Fellow with the Max Planck Institute for Collective Goods in Bonn, Germany. Mark's PhD thesis investigated the cognitive psychology of judicial decision making. His post-doctoral thesis (Habilitationsschrift) applied probability theory (Bayesian networks) and psychological models of intuition (parallel constraint satisfaction) to forensic evidence evaluation and standards of proof. He is co-editor, together with Prof. Herbert Zech (University of Basel), of the forthcoming one volume commentary on the Swiss Patent Act.



<http://www.markschweizer.ch>

Herbert Zech

Professor of Life Sciences Law and Intellectual Property Law, University of Basel

Herbert Zech studied Law at the Universities of Erlangen and Munich. After his bar exam (second state exam) at the Munich Court of Appeal he obtained his doctorate degree (Dr. jur.) at the University of Constance. From 2002 to 2003 he worked as an attorney in the field of Tax and Company Law at Freshfields Bruckhaus Deringer's Munich office. In 2007 he graduated in Biology (Dipl.-Biol.) from Kaiserslautern University of Technology where he also worked as an assistant researcher at



the Chair of Private and Economic Law. Between 2007 and 2011 Herbert Zech was a non-tenured Senior Lecturer (Akademischer Rat auf Zeit) at the University of Bayreuth working with Prof. Dr. Ansgar Ohly, LL.M. At the end of 2011 he became an Interim Professor heading the Chair of Civil Law, Economic Law and Technology Law in Bayreuth. In 2012 he received the *venia legendi* for Civil Law, Commercial and Company Law, Intellectual Property Law, Competition Law and Technology Law. His postdoctoral thesis focused on "Information as an Object of Property Rights". Since April 2012 Herbert Zech has been teaching first as an Associate Professor at the Faculty of Law of the University of Basel (Switzerland) and since 2015 as a Full Professor of Life Sciences Law and Intellectual Property Law. 2014 to 2018 he held the position of Dean of Research.

Among others his current fields of research are patents in the life sciences and legal issues concerning big data, artificial intelligence and additive manufacturing.

Christian Moser

Patent Expert at the Swiss Federal Institute of Intellectual Property

Christian Moser is a patent expert in life sciences and working at the IPI since 2014. Besides his activity as professional patent researcher and examiner, he is involved in IPI's efforts to promote IP awareness at universities and in the private industry. Christian Moser is a trained veterinarian with a PhD in molecular virology. After his education at the University of Bern and a postdoc at the University of Pennsylvania, he spent more than a decade in the Swiss vaccine industry in various scientific and management roles in R&D.



<https://www.linkedin.com/in/christian-moser-99651728/?ppe=1>

Jean-François Denis

Management Assistant, SmartGene®

Born in Belgium, obtained a Master in industrial engineering in biochemistry at the university college Limburg/BE and a Master degree in Clinical Molecular Biology at the University of Hasselt/BE. Received the degree of PhD at the University of Geneva/CH in the department of Pathology and Immunology for working on the link between cell-cell communication and

atherosclerosis plaque formation. Worked as Research fellow in the Center of Human Genetics of the University of Leuven in the area of Next Generation Sequencing to

develop the integration of molecular barcodes in clinical samples. Subsequently, acquired experience in vaccine development at the Rega institute of medical research in the department of molecular microbiology. Started working in December 2017 for SmartGene a company distributing cloud-based software application services for the analysis and hosting of genetic data. As management assistant responsible for marketing, client support and implementation of new European data protection regulations.



Anna Deplazes Zemp

Senior researcher & lecturer in the fields of bioethics, environmental ethics and research ethics, University of Zurich

Anna Deplazes Zemp's first academic training was in molecular biology at the University of Zurich with a PhD at the Institute of Biochemistry at the ETH Zurich. She then continued her education in philosophy with a particular focus on ethics and graduated with a Zusatzstudium at the University of Zurich. She has worked on different research projects dealing with ethical issues at the interphase between biology and ethics at the Institute of Biomedical Ethics and History of Medicine and at the Ethics Research Institute both at the University of Zurich complemented by a stay as a visiting researcher at the University of Manchester.



Raluca Flükiger, PhD, CLP

Licensing officer, technology transfer office of the University of Geneva (Unitec)

Raluca Flükiger started out as a professional editor on the scientific journal *Nature Reviews Molecular Cell Biology*, before joining the technology transfer office of the University of Geneva (Unitec) as a licensing officer. In parallel with her main professional activities, she was a biochemistry lecturer at the University of Geneva for 10 years and a scientific advisor for *Sectoral Asset Management*, an asset management firm specialized in the healthcare sector.



Raluca is a certified licensing professional (CLP™), and her current activity at Unitec entails patenting and commercialization of life science technologies and negotiation of research agreements for university-industry collaborations. She regularly teaches on topics relating to academic technology transfer and intellectual property, and is involved in various programmes providing support and coaching to aspiring Swiss academic entrepreneurs.

Further information

Swiss Federal Institute of Intellectual Property IPI

Envisioned. Created. Protected.

Individuals and companies register their innovations and creations with the Swiss Federal Institute of Intellectual Property (IPI) in order to protect them from being copied: inventions are patented, names registered as logos or trademarks and shapes as designs. The IPI maintains the public register for the management of IP rights and informs the general public about the possibilities of protecting intellectual property. The IPI is the federal government's centre of competence for all issues concerning patent and trade mark protection, indications of source, design protection and copyright, and is also responsible for preparing legislation in these areas. In addition, the IPI represents Switzerland within international organisations and vis-à-vis other countries.



Our courses

The IPI's training courses are only available in German and French.

As the Swiss Confederation's centre of competence for patents, trademarks, designs (industrial property rights) and copyright, the IPI offers a range of courses dealing with the various aspects of intellectual property rights (IP rights) and associated information sources. We'll introduce you to the rights you're entitled to using practical case studies. Plus you'll also learn where relevant information is available and how to access it. These courses allow you to broaden your knowledge on protecting your products, services and innovations. In them, you'll get answers to the following questions:

- How can you profitably exploit your intellectual property?
- How can you gain a competitive advantage?
- What are your rights?
- Where can you find the necessary sources of information and how can you use them for research? What procedures are there?

Benefit from the practical knowledge and case-oriented experience of our trade mark, patent, design and copyright experts.

<https://www.ige.ch/en/services/training-and-courses/courses-by-legal-field.html>

sitem Swiss School (Berne)

What is sitem-insel?

The Swiss Institute for Translational and Entrepreneurial Medicine (sitem-insel) was set up with the aim of establishing, operating and developing a National Center of Excellence for Translational Medicine and Entrepreneurship in Bern.

What does sitem-insel do?

Sitem-insel's mission is to improve the general environment for translational medicine in Switzerland.

The strategy chosen has three pillars:

sitem Swiss School

University-level courses given by lecturers from industry and academia designed as continuing professional development for specialists. The school offers a CAS, DAS and MAS program. One module is about IP. The modules are eLearning courses.

sitem Enabling Facilities

Specialist R&D labs and facilities for translation for joint use by industry and academia.

sitem Promoting Services

Creation of services for optimizing the administrative and regulatory affairs from bench to commercialization.

For more details on organisation of sitem AG check out sitem AG homepage:

<http://www.sitem-insel.ch>



35143 Course: Turning ideas into innovations – The role of intellectual property rights in life sciences (2 CP)

Fall semester 2018

Lecturers: Heinz Müller, Herbert Zech
Thursdays 15:15-17:00 Pharmazentrum, Hörsaal 2

<https://www.biozentrum.unibas.ch/de/studium/master/graduate-teaching-program/>

The course will provide the basic knowledge of intellectual property with a strong focus on patents, helping PhD students to take the step from scientific/technical ideas to innovations.

Main topics will be:

- The role of innovations in industrialized countries and high-technology sectors
- Protecting inventions and securing commercial success: The role and importance of intellectual property
- Protecting inventions in the life science domains: Options and restrictions
- Patents as a pool of technical and business information:
- similarities to scientific/technical literature and peculiarities
- how to get the information needed
- taking advantage of patents for developing a business

The course includes practical exercises in reading and understanding the information in patents. In addition, tutorials are included which enable the participants to use common interfaces to patent databases, and to search for patent information needed.

What practical aspects of intellectual property need to be considered in research (including grant proposals), when creating a start-up company and working in an enterprise:

- intellectual property as a key asset in high-tech sectors
- preconditions for investments and cooperations
- collaboration, service, sponsoring, non-disclosure, material transfer, licensing agreements



CEIPI courses leading to diplomas

The CEIPI proposes four diplomas in intellectual property awarded by the University of Strasbourg:

- Two diplomas in intellectual property with specializations in "Patents" and "Trademarks and Designs". The traditional course (long tuition) is designed for students having completed a degree in science, engineering or law and the accelerated course is designed for established professionals in the intellectual property field
- Diploma Patent Litigation in Europe
- Diploma (in Skopje): Intellectual Property Law

<http://www.ceipi.edu/en/ceipi-courses-leading-to-diplomas/ceipi-courses-leading-to-diplomas/>

Assisted Patent Search for the Promotion of Research and Innovation

Do you have an innovative idea – and want to know how you can protect it?

Gain some insight together with a patent expert over the course of a day. First of all, the expert from your field of speciality will answer your questions all about protecting your innovations. Then together you will look at how new your idea or invention is by searching in various patent databases for similar or identical inventions. You determine the appropriate search terms and a suitable search strategy together with the expert. You can take home with you any matching patent documents and citations found, on a USB stick.

The benefits for you

- You learn everything you always wanted to know about patent protection, for example, what your invention must have so that it can be patented, how various application procedures differ, what you should pay attention to following the granting of a patent and how you can also protect an invention without patenting it.
- You familiarise yourself with searches in patent databases.
- You get an initial overview of the prior art so you can evaluate whether your invention is new and if it is worth filing a patent for it.

Where

Swiss Federal Institute of Intellectual Property, Stauffacherstrasse 65/59 g, CH-3003 Bern

Conditions

- An assisted patent search is open to you
 - if you work in a research institute (public university of applied science or public university in Switzerland or an institution of the ETH Domain), or
 - if you work in a company or an institution that is supported by a promoter of research and innovation and with whom we have concluded a framework agreement.
- The search must be for the benefit of a project being carried out by your research institution, or one that is being supported by a promoter of research and innovation and with whom we have concluded a framework agreement. In the latter case, you must include a voucher from your promoter with this request.
- We carry out the assisted patent search only in your presence.
- You receive up to 50 matching patent citations free-of-charge and the associated complete patent document for up to 20 of these citations as a PDF file.

Please note

- Due to time and database limitations, we cannot carry out a complete search. If you require a comprehensive overview of the prior art, we recommend that you request an in-depth search. You can find more information on this on our website at www.ipi.ch/patent-searches.
- We practice complete confidentiality regarding all information exchanged between you and the IPI as well as concerning the search results.
- If you wish to file a patent for your invention following the patent search, we recommend that you involve a patent attorney. He will help you with the formulation of the application and the technical documentation. Both the results of the assisted patent search and our advice have no influence on the examination of your patent application.

Fee: CHF 300 including VAT (Art. 3 para. 2 of the IPI Fee Ordinance)

If you would like to request a search, please send us a completed and signed request form or request a search online at www.ipi.ch/basic-searches. We will then agree upon a date with you.

For further information please contact us:

Telephone +41 31 377 77 77 · info@ipi.ch · www.ipi.ch

Request for an Assisted Patent Search for the Promotion of Research and Innovation

Fee: CHF 300 including VAT (Status as per 1 January 2018*)

1 Theme/Task/Field

2 Scheduled date for the search (if already known)

Date _____

Comments _____

3 Applicant

Research institute or company/institute _____

Full name of the employee who will participate in the search _____

Tel. _____ Fax _____ email _____

Address _____

Post code, Town/City _____

4 Billing address (if different to applicant address)

- With my signature, I confirm that I work in the research institute indicated above and that the search is for the benefit of a project of the said research institute. For the search, the conditions stated on this form shall apply.
- With my signature, I confirm that I work in the company/institute indicated above and that I am in possession of a voucher for this assisted patent search. The voucher is included with this request. For the search, the conditions stated on this form shall apply.

Place, date

Signature

Please send your request per post, email or fax to

Swiss Federal Institute of Intellectual Property, Patent Administration, Stauffacherstrasse 65/59 g, CH-3003 Bern
patent-search@ipi.ch · Fax +41 31 377 77 93

* The fees are subject to change. You can find the current valid fees and forms on the internet at www.ipi.ch/basic-searches or they can be requested directly from us.

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IGE | IPI

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Life Sciences Switzerland

www.ls2.ch / info@ls2.ch

Save the date for the biggest Swiss Life Sciences conference!

LS2 Annual Meeting 2019, 14-15 February 2019

Irchel Campus, University of Zurich

Preliminary info: www.ls2.ch/events/ls2-annual-meeting

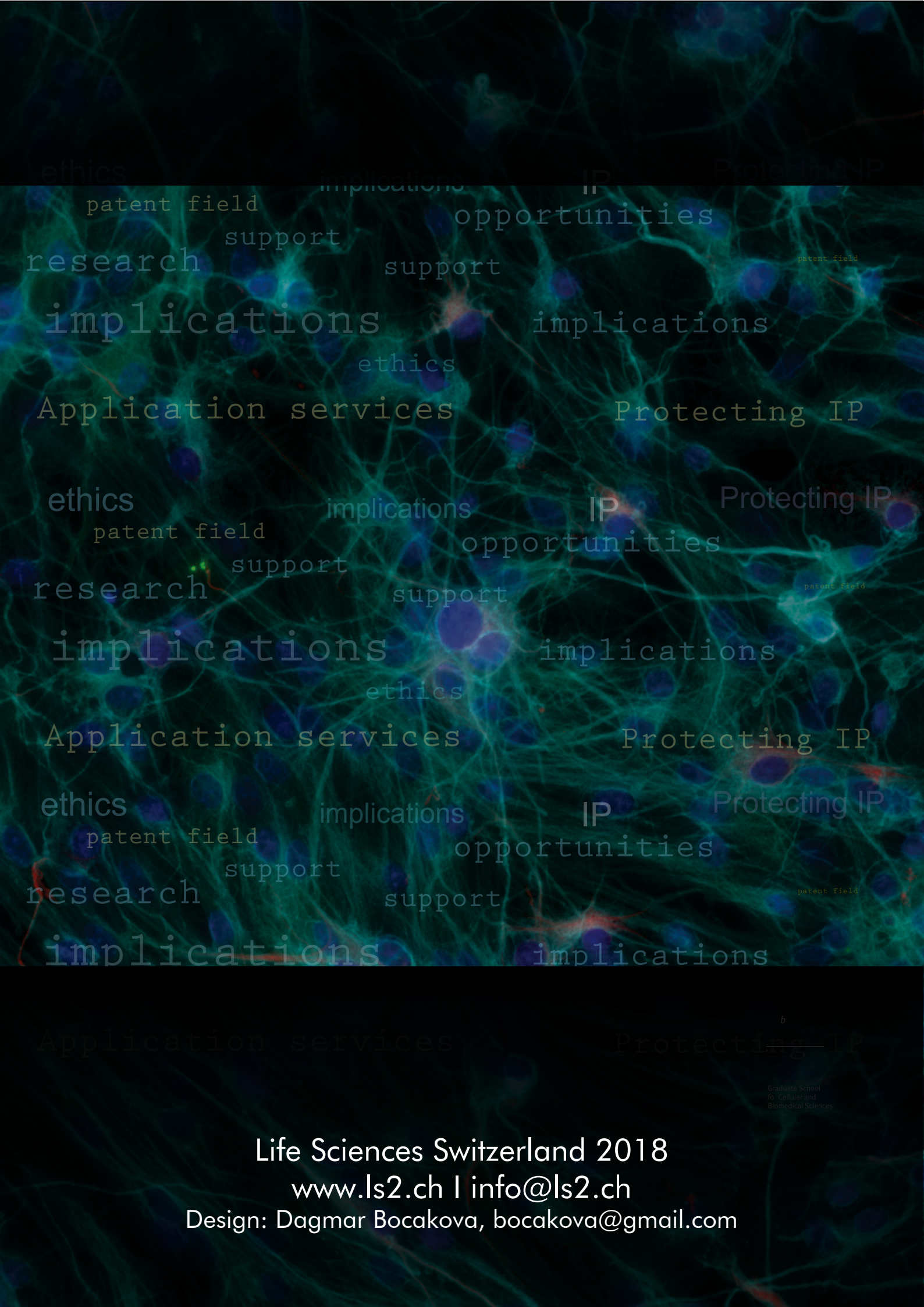
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Thank you all for your participation!

Feedback to:
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Life Sciences Switzerland 2018

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