



Universität
Basel

Department of
Biomedical Engineering

Welcome to the Virtual General Assembly of the DBE 2020

Philippe C. Cattin, 11 November 2020





Agenda

1	Welcome, Check of Quorum, Approval of 2019 Assembly Minutes	2'
2	Welcome to New Group Leaders at DBE	10'
3	Personnel and Funding 2020/2021	10'
4	Reports on Tasks Given 2019 by the Assembly and SAB	40'
5	The SAB's Report for the DBE	10'
6	Progress Review with the DBE-Council (27/10/2020)	20'
7	Information on Adaptation of the DBE-Regulations	5'
8	Elections	10'
9	Planning for 2021	3'
10	Varia	20'



Check of Quorum

Approval of 2019 Assembly Minutes

Eligible to vote:

Group I (31 Group Leaders): **22 present**

Group II (Collaborators with teaching assignment): **Niklaus Friederich**

Group III (postdocs and PhD students): **Manuela Eugster**

Group IV (collaborators without teaching assignment): **Constanze Pfeiffer**

Group V (master students): **Julius Klaas**

The Departmental Assembly has a quorum





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Welcome to New Group Leaders at DBE

Michael Bornstein – Head of Research at University Dental Clinics UZB

Raphael Guzman – Neurosurgery USB

Andreas Müller – Cleft Lip, Jaws & Palate USB

Mathieu Sarraclanie – Adaptable MRI Technology Center Uni Basel

Heide Elke Viehweger – Orthopedics UKBB



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Third Party Funding **Granted**

Finances and Project Grants Secured

2018: 4'270 kSFR

2019: 5'500 kSFR

Especially notable:

- New SNSF Eccellenza for Prof. Mathieu Sarraçanie (AMT-Lab)
- Two SNSF project grants for Prof. Annegret Mündermann (Biomechanics)

2020: 12'000 kSFR WSS for MIRACLE II (Start 2022)

+ **2'316 kSFR** SNSF (Salameh, Cattin, Santini), Eurostars (Granziera), Industry (Jud, Zam), Forschungsfonds/Foundation (Tsagkas, Cattin)

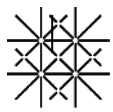


Structural Funding granted vs. Third Party & SNSF Funds **Spent** (in 1'000 SFR)

	Structural DBE Central at Unibas	Investments by Unibas	Third Party Funding at Unibas	SNSF at Unibas
2018	1'476	400	4'561	643
2019	1'539	420	4'341	826
2020	1'541	500	2'826 ^b	837 ^b
2021	1'541	765 ^a		

^a Submitted, not yet granted! includes ¼ for a R'Equip X-Radia for the core facility MiNa

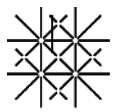
^b Status 31.10.2020



Personnel Research Support 2020/2021

	Structural	Med. Fac.*	By Profs	MIRACLE
Study Co-ord. (Oser)	40%	20%		
Research Co-ord. (Pfeiffer)				60%
Media & PR (Wendler)	20%		20%	20%
IT (Fasel & Zentai)	70%	30%		20%
MiNa Co-ord. (Schulz)	70%		30%	
3D-print Co-ord. (...)				?%
HR (Eymann)			10%	20%
Mngmt & Admin (Vavrecka, Heissler)	160%			
HiWi (Kempen)	20%			
BSL2 & Safety Officer (Braissant & Göpfert)		20%		
TOTAL:	380%	70%	60%	120%

* Limited until end of 2021



Structural Budget & Med. Fac. Support for DBE Central

	Salaries & Social Costs	Consumables
<ul style="list-style-type: none"> Master program incl. lecturers PhD program incl. winter school 	106 k	5 k 48 k
<ul style="list-style-type: none"> Research IT & CoreFacility 	206 k	2 k 0 k
<ul style="list-style-type: none"> Research Day & SAB 		10 k
<ul style="list-style-type: none"> Administration & PR 	263 k	3 k
<ul style="list-style-type: none"> BSL2 & Safety Officer 	23 k	2 k
TOTAL:	598 k	70 k
from Medical Faculty (until end of 2021)	63 k	
for PhD-Program (DMB2001 until end of 2021)	30 k	48 k
from Unibas: Structural Funding	505 k	22 k



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Tasks Given 2019 by the Assembly – Overview

Tasks for 2020

- **Setup of a Strategy Group** see discussion of tasks of SAB.
- **Revision of the DBE Regulations** see item 7.
- **Setup of a PhD Day**



Tasks Given 2019 by the Assembly

Setup of a PhD Day

- Has been planned and prepared for May 2020 (invitations were sent)
- **PhD Day 2020:** Cancelled due to Corona and not yet proven processes
- **PhD Day 2021:**
 - Committee: Cédric Duverney (BIROMED), Simon Herger (Biomechanics), Melanie Bauer & Alina Senst (IRM)
 - Date: 19 OR 26 March 2021
 - Ideas: posters of the master students, lab tours,



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Tasks Given 2019 by the SAB – Overview

Action plan assigned to the DBE for 2020

- **Finalize DBE strategy planning:** Clear vision statements, etc.
- **Plan for the installment of structural professorships**
- **Long-term space planning** (based on strategy) for the GRID
- **Report on Biomedical Engineering Master Study Program**
- **(Re-)evaluation of assistant professorships**
 - Prof. Pablo Sinues (Breath Research),
 - Prof. Georg Rauter (BIROMED),
 - Prof. Azhar Zam (BLOG).



DBE Strategy Development: Process

General Overview

Strategy Group set up with board members, focal area speakers and 1 – 2 group leaders of each focal area.

DBE strategy elaborated, objectives and actions determined during 1 retreat, 4 workshops, 6-8 meetings of subgroups: 485 man hours.

Decided to **dismiss Focal Areas** and to focus on **Research Clusters in a collaborative network (“Circle of Expertise”)** instead.

2 subgroups of Strategy Group built (each with Profs. Cattin, Granziera, Müller, Rauter) to push **implementation** with X meetings on

- IT-development, collaborations and strategy → **DBE-IT-Concept**
- Visibility → **PR-Concept**
- **“Circle of Expertise”** to visualize network of collaboration and projects.



DBE Strategy Development: Stages





Strategic Analysis I

Vision – Mission – Values

Our vision is a world
where health care needs are met
by innovative biomedical research and engineering solutions.

We translate basic science and engineering
into medical knowledge and healthcare innovations.

We provide high-quality education and capacity building
for academics, clinicians, and industrial partners.

We adhere to the policy of the University of Basel and
promote an interdisciplinary culture of dialog,
appreciation, respect, honesty, and tolerance.

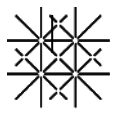
We are committed to scientific integrity, reliability, transparency,
and good scientific practice.

We value and foster enthusiasm and passion for science.



Strategic Analysis II: Success Positions & Goals

Strategic Success Positions (SSP)	Priorities for SSPs	Goals
Customer / research →	Build up Problem solving, innovation & translation	be first point of contact for clinicians
Financial →	Finances & Structural Resources	get stable structural positions
People →	Talents & Education	build a desirable Master of BME
Operational →	Promote Collaborative Network & Environment	showcase DBE, become well-known multidisciplinary network
	Maintain Finances: Third-party funding	acquire continued third-party funding



Based on Strategic Analysis → Action Plans → General Objectives

Annual (2020) objectives

1. Improve visibility and initiate interdisciplinary projects.
2. Take measures to improve structural funding and reach critical size.
3. Join and share infrastructure with other departments
4. Clarify collaborations

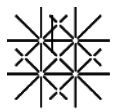


Annual Objectives 2020

→ Developments – Selected Examples

1. Improve visibility and initiate interdisciplinary projects

- New structure with Research Clusters and “Circle of Expertise” at DBE, dismissed Focal Areas due to its restrictions on exploiting opportunities (e.g. restricted # of professorships per FA).
- Ph. Cattin applied for and received grant to develop regulatory approval process (preliminary 475kSFR)
- Annual Report 2019 – see next slide



Annual Objectives 2020

→ Progress – Selected Examples

First Annual Report of DBE:

- CD of the University of Basel
- Online available
- Printable and modular, can be composed to the needs of each research group



University
of Basel

Department of
Biomedical Engineering

Content



SpectoVR: Planning surgical interventions in virtual reality. (Picture: F. Brüderli)



6-DoF haptic input device that can be used as a teleoperation master device. (Picture: E. Zoller)

Overview	1
About the DBE	2
Portraits of the Focal Areas	
- Biomechanics & Biomaterials	4
- Imaging, Modelling & Diagnosis	5
- Medical Lasers & Robotics	6
- Regenerative Surgery	7
Finances, Personnel & Resources	9
Eccellenza Grant Mathieu Sarraclanie	10
Exhibition «Inside Motion»	11
Finished PhD-Theses	
- Antal Horvath	13
- Sofiya Matviyukiv	14
Teaching in the Master of Science	16
Finished Master Theses	
- Tim Dürrenberger	17
- Riccardo Parini	18
- Luca Marco Pavone	19
- Thomas Quirin	20
- Stephan Schraivogel	21
- Abdelrahman Shalaby	22
Finished Semester Thesis	
- Sara Pensotti	24
Spin-Offs	26
Partners and Funding Agencies	27



Annual Objective 2 & Task of the SAB

- **Improve structural funding and reach critical size → Professor Planning**

- by demonstrating the added value for the hospitals and university convince the medical faculty :
 - to provide an additional professorship for biomedical engineering in ESP,
 - to replace retiring professors with DBE professors
- Convince orthopedic surgeons at USB and UKBB of a researching (non-clinical) biomechanics professor (1 of 3 to be filled)
- Attract clinical professors at UKBB and USB for joint projects

- **Status:**

- Structure committee for Surgical Robotics & Medical Laser professorships:
 - MIRACLE II contract requires continuation of a) Laser and b) Robotics.
 - Med. Faculty in its structural planning (ESP) considers it essential to establish a further professorship in Biomedical Engineering;
 - Advertisement process expected to start in January 2021.



Annual Objectives 2020

→ Progress – Selected Examples

3. Join and share infrastructure with other departments

- Collaboration started with new head of research at dental hospital re. shared Electron Microscope (B. Müller with M. Bornstein).
- Member of user board of SciCore (C. Granziera).
- SNSF R'Equip application to expand Core Facility MiNa (G. Schulz) in progress supported by groups at FHNW, Nat. Hist. Museum, DBM, Dept. of Pharmaceutical Sci.)



Strategic Action Plan 2021

Annual Objectives & SMART Actions 2021

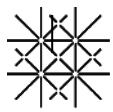
Will be determined in a meeting preceding the virtual “New Year Apéro 2021”

Doodle (for January 2021) will be sent, together with minutes of Assembly



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Status quo planing GRID – «Grand Réseau d'Innovation et de Développement»



Move into the premises scheduled to Dec. 2022
Operational start in January 2023.

4,991 m² = total rental area,
4,250 m² = for offices, laboratories,
lecture rooms & workshops.

Done until now:

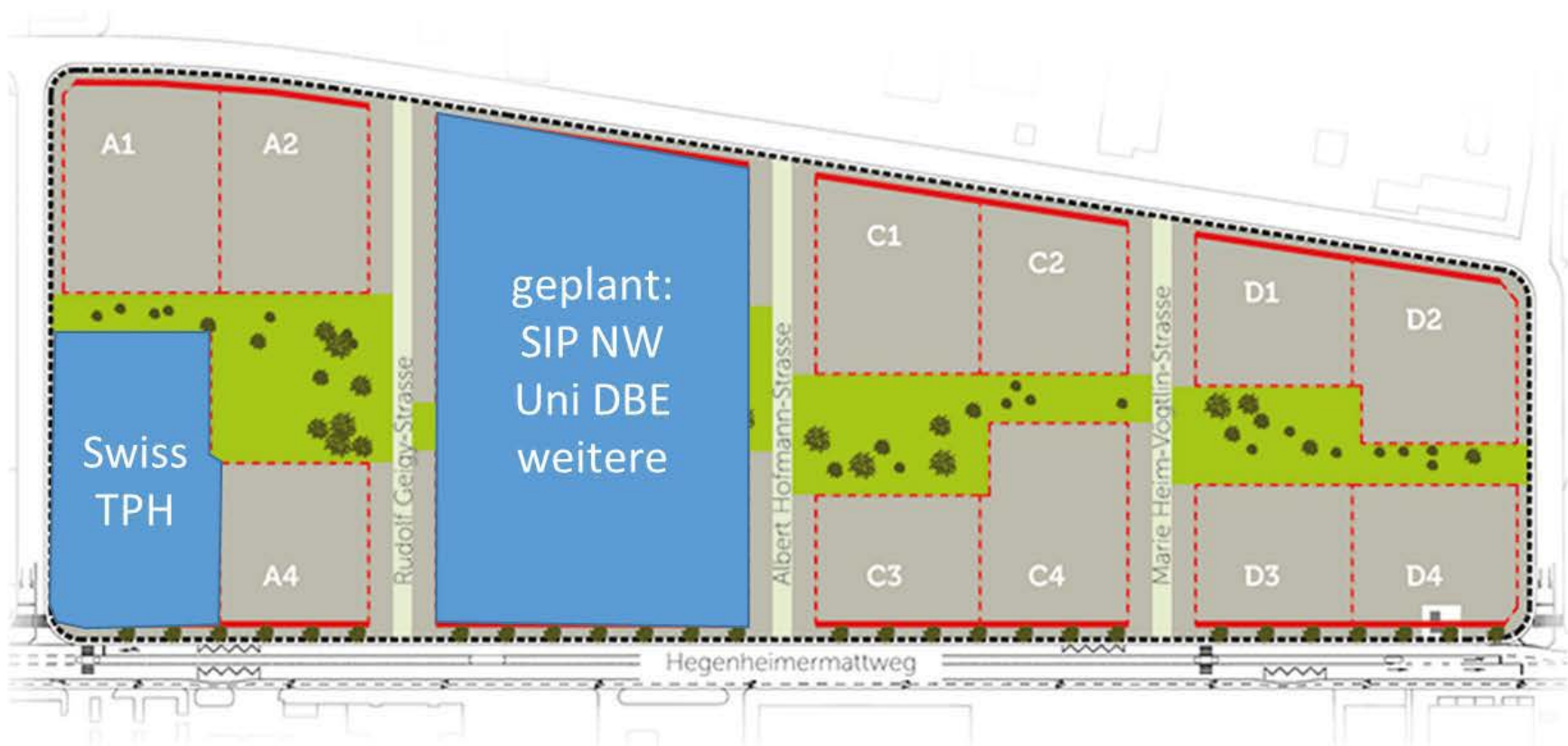
- Rental Contract (Unibas Rectorate)
- Operational concept (DBE / Unibas)
- Planning of interior layout

The interior construction shall be
**“in the best possible implementation
of the relevant wishes of the DBE
and the University of Basel”.**



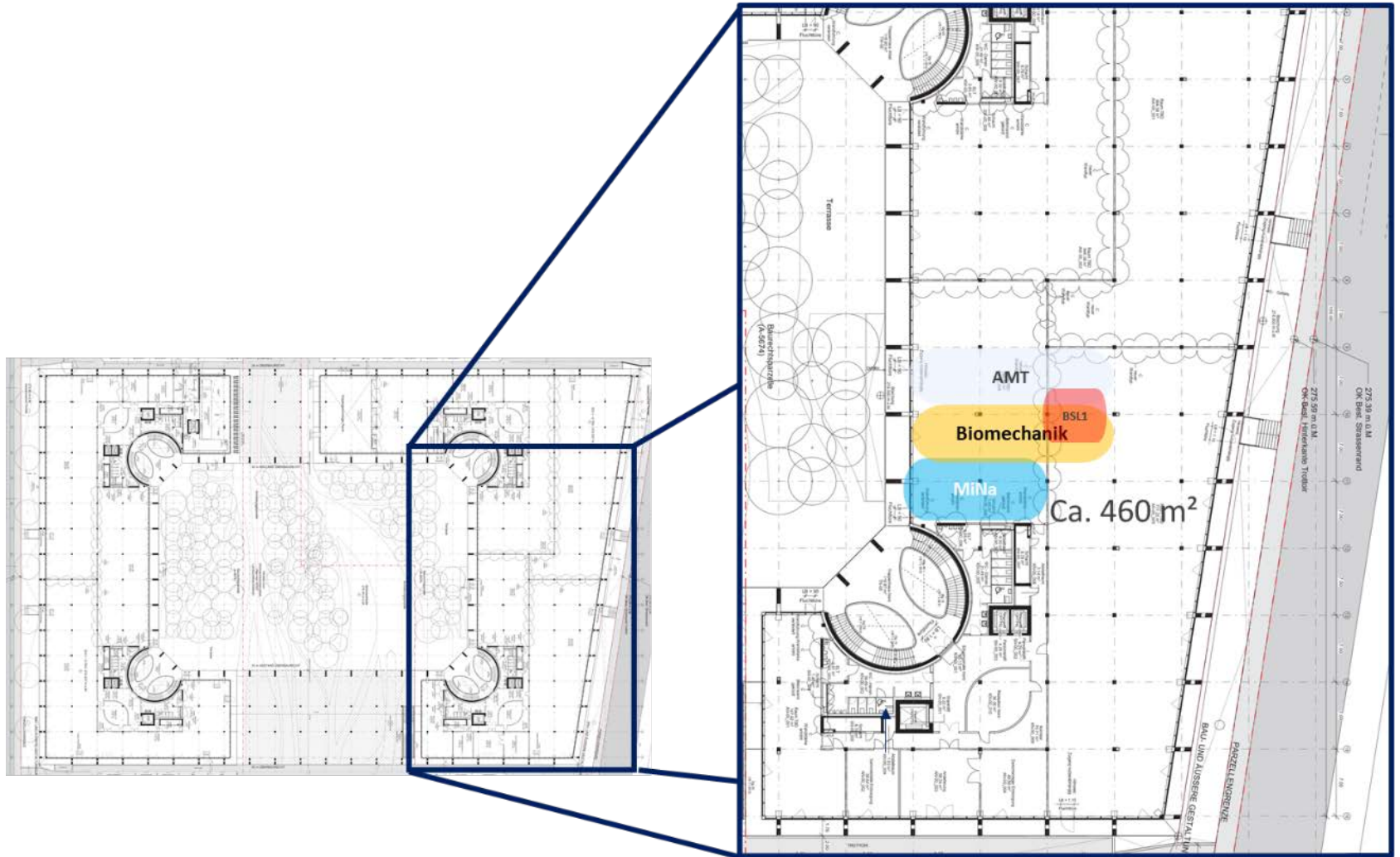


DBE @ GRID – Building localization



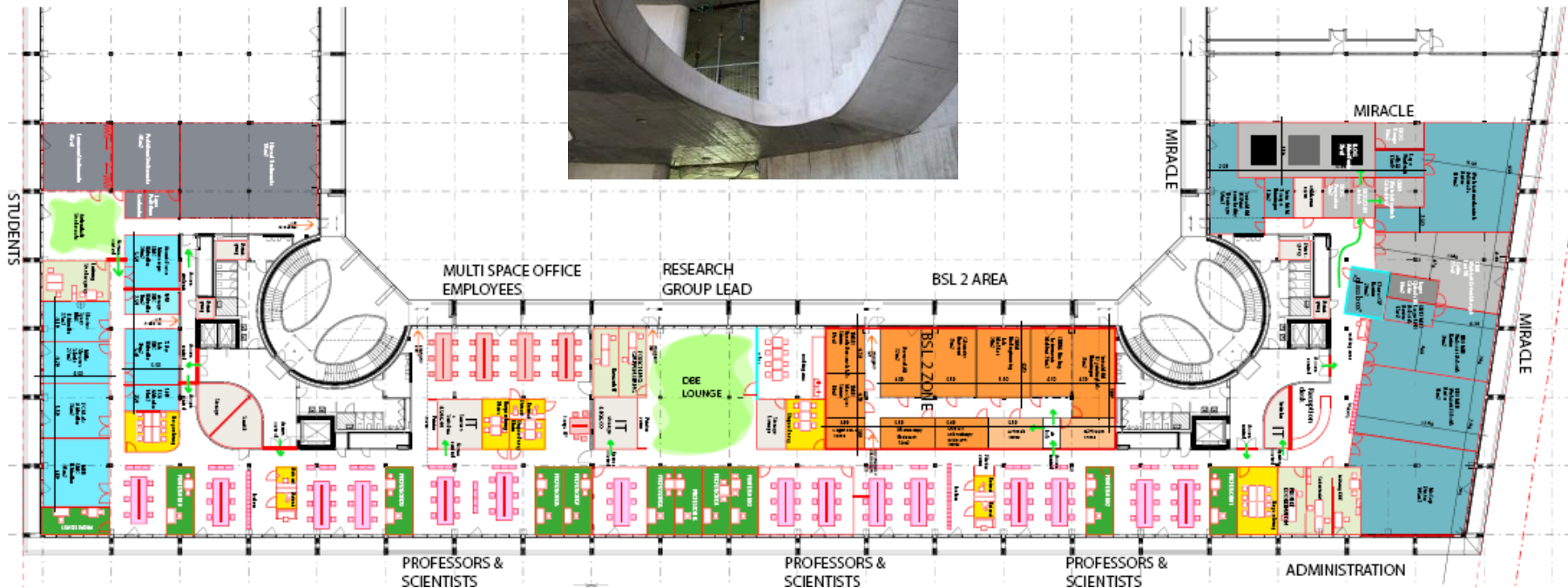
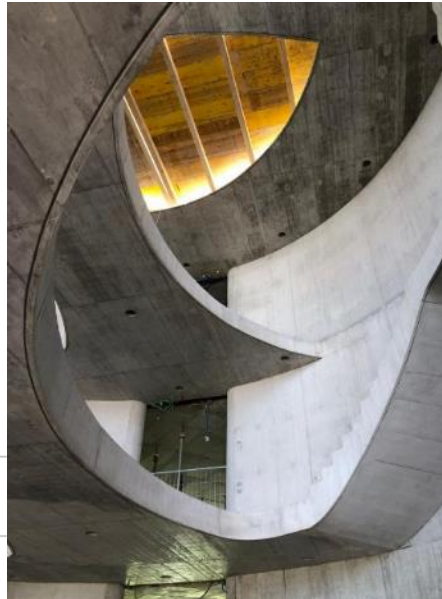


DBE @GRID: Space Ground Floor





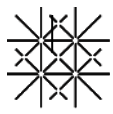
DBE @GRID: Space 2nd Floor



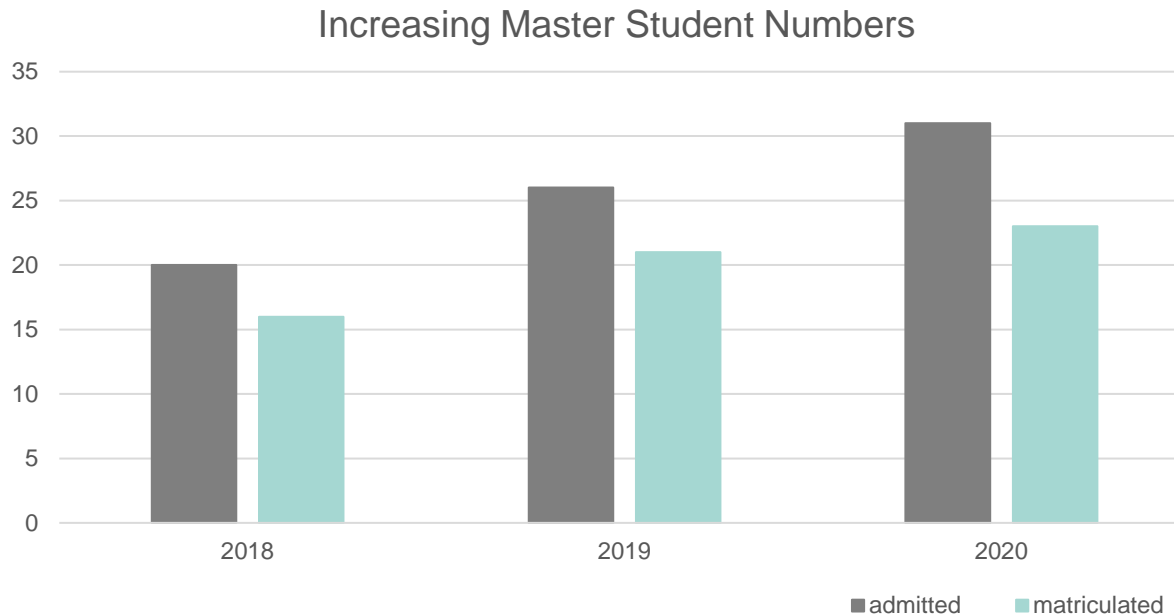


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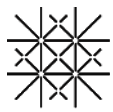


Facts & Figures: Student Numbers in the Master of Science



2019 compared to 2018:

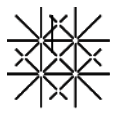
- more than 30 % increase in # of students and # of applications in 2020
- 62 % (2019) vs. 75 % (2018) female students (decrease)
- 24 % (2019) vs. 44 % (2018) medical background (decrease)



Master Program HS 2020

Student Facts

22 students	
5 with a medical background	22%, in HS18: 46% , HS19: 29%
12 female	52%, in HS18: 73%, HS19: 62%
8 with a swiss bachelor	35%, in HS18: 47%, HS19: 57%



Facts and Figures: Courses & Lecturers

Two Majors in Biomedical Engineering

Biomaterials Science & Nanotechnology (lead: B. Müller)

Image-Guided Therapy (lead: P. Cattin)

Courses and Lecturers

Number of courses	1 st semester: 10	2 nd semester: 16
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Number of total credit points offered	1 st semester: 45	2 nd semester: 55
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Number of lecturers	1 st semester: 56	2 nd semester: 51
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Quality of all courses are evaluated each semester

Overall satisfaction of the students with the teaching content (2019)	4 out of 5 points
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Recommendation rate (2019)	8 out of 10 points
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SAB Report 2020 on department level

Improvement suggestions

➤ **Strategy** ... pursue a double-edged strategy

- 1) as a customer- oriented department supporting biomedical and clinical research and practice
- 2) as research department driving biomedical engineering research **in carefully selected areas**

... 5 – 6 additional professorships within the next 6 to 8 years = target

... communicate openly and strongly:

- 1) customer-oriented activities and DBE research activities to clinicians
- 2) needs and strategy to representatives of the University of Basel

➤ **Visibility**

The level of activity should be maintained

Find ways to compensate for the remote location, e.g. virtual visits



SAB Report 2020 – Tasks

Action Plan 2020/2021 on a departmental level

- Finalize strategic planning → define scientific strengths (**core areas**)
- Professorship planning in line with strategic DBE's core areas
 - Short term target: instalment of 1-2 structural professorships
 - Involve Medical Faculty and the University of Basel

Long-term suggestions

- Implement strategy
- establish further structural professorships in core areas

SAB's 2021-Evaluation

- DBE: update on strategy, report on master program
- Groups: (Re-)Evaluation Profs. Salameh & Sarraçanie (AMT-Lab)



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DBE Progress Review with DBE Council

Base: Quality Management in Research at Uni Basel

- Uni Basel aspires accreditation for **Quality Management in Research**
- 30.9.2020 Uni Basel Senate discussed:
 - SAB evaluates excellence and research performance at departments
 - SAB advises on orientation and organization (report)
 - Department presents progress and SAB report to extended council
 - Progress reviews of the units serve the accreditation of the University of Basel.
- DBE serves as role model:
 - First such progress review held on 27 October with DBE Council



Feedback of DBE Council

DBE in general

- Excellent development – well developed

Recommendations / Tasks

- As SAB recommends, special focus on:
 - SWOT re. collaboration
 - Strategy: define core activities!
- Additional recommendation:
Setup a mentoring system for assistant professors (e.g. Eccellenza):

Work in Progress

- Procedure for “Junior Faculty Applications” (see docu. on DBE-website), includes the principle of “Mentor”



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Information on Adaptation of the DBE-Regulations

DBE-Regulations

➤ **Assembly asked to setup committee**

Task on hold, because:

➤ **University intends to gain accreditation for QM:**

→ SABs and progress reviews to be incorporated in dept. regulations

➤ **Medical Faculty intends to homogenize all departmental regulations**

→ comparable governing bodies

→ DKF develops draft, not yet shared



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Elections – New Member of the Executive Board

The DBE Board

“The DBE’s Executive Board should be equally composed of members from the natural sciences and medicine.” (according to regulations)

Current balance:

2 Medical Doctors / Clinicians:

Ludwig Kappos USB, **Reinald Brunner UKBB → will retire**

3 Scientists / Engineers:

Pablo Sinues UKBB, Philippe Cattin Uni, Oliver Bieri USB



Elections

Tasks of the New Member of the Executive Board

The Duties of the DBE Board Members

- 4 times a year board meeting
- 5-10 electronic requests for an opinion or advice
- ex officio participation in the strategy group

§12 The members of the department board

- a) prepare the business of the departmental assembly and convenes the departmental assembly
- b) assume responsibility for the proper course of business and for informing the Departmental Assembly
- c) conduct electronic voting in urgent matters
- d) represent the Department vis-à-vis the Faculty and the University Management
- e) are responsible for annual reporting
- f) organize and coordinate the public appearance of the department
- g) advise and plan departmental matters not otherwise specified here
- h) sets up further departmental commissions as required and determines their mandate and composition
- i) admit new research groups to the department
- j) decide on the association of external groups in the department
- k) propose the distribution of the allocated university funds to the research



Elections

Candidates for the Executive Board

Volunteers up for election

- PD Dr. mult. **Florian Thieringer**, MHBA, senior surgeon Oral and Cranio-Maxillofacial Surgery at USB, co-head 3D Print Lab & head of SwissMAM RG, Co-PI MIRACLE II.
- Prof. Dr. med. **Raphael Guzman**, deputy head Neurosurgery USB at UKBB, head physician vascular and pediatric neurosurgery.
- Prof. Dr. med. Dr. sc. nat. **Alexander Navarini**, head Dermatology at USB, head of the Center for Skin Tumors, head of Clinical Research Dermatology.



Universität
Basel

Department of
Biomedical Engineering

Thank you, Reinald!





DBE Governance as of November 2020

DBE Council



Prof. Dr. Thorsten Schwede
Vice-Rector Research
University of Basel



Prof. Dr. Primo Schär
Dean of the Medical Faculty Basel
University of Basel



Christoph Tschumi
Managing Director
University of Basel



Dr. Werner Kübler
Managing Director
University Hospital Basel



Marco Fischer
Managing Director
University Children's Hospital Basel

DBE Executive Board



Prof. Dr. Philippe C. Cattin
Head of the Department
Head of the Center for medical Image
Analysis and Navigation (CIAN) -
University of Basel



Prof. Dr. Ludwig Kappos
Professor of Neurology
Director Research Center Clinical
Neuroimmunology and Neuroscience
Basel (RC2NB) – University Hospital



Prof. Dr. Oliver Bieri
Head Radiological Physics,
Radiology & Nuclear Medicine,
University Hospital Basel



Prof. Dr. Raphael Guzman
Deputy head Neurosurgery USB at
UKBB, Head physician vascular and
pediatric neurosurgery
University Hospital Basel



Prof. Dr. Pablo Sinues
Head of the Teaching Commission
Head of Translational Medicine
Breath Research, Botnar Professor at
University Children's Hospital Basel

Scientific Advisory Board



Prof. Dr. Markus Rudin
Institute for Biomedical Engineering
(ETHZ) and Institute for
Pharmacology and Toxicology
(University of Zurich)



Prof. Dr. Regine Willumeit-Römer
Christian Albrechts University of Kiel
and Helmholtz Centre of Geesthacht
(Head research area "Metallische
Biomaterialien")



Prof. Dr. Christian Enzinger
University Hospital Graz, Neurology
Karl Franzens University of Graz



Prof. Dr. Andreas Maier
Pattern Recognition Lab
Friedrich Alexander University
of Erlangen-Nürnberg



Prof. Dr. Christos Bergeles
Department of Medical Physics and
Biomedical Engineering
University College London



Elections – Deputy Head of Department

Options for Deputy Head of DBE

Medical Doctors / Clinicians:

Ludwig Kappos USB, **new person**

Scientists / Engineers:

Pablo Sinues UKBB, Oliver Bieri USB



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Discussion & Planning for 2021

Annual Objectives, Strategic Tasks & **New Year Apéro**: 12 January 2021

PhD Day: 19 March 2021

Medical Robotics Week: 7 – 11 June 2021 (hybrid)

SAB Visit and Research Day: 7 – 8 September 2021

General Assembly: 17 November 2021

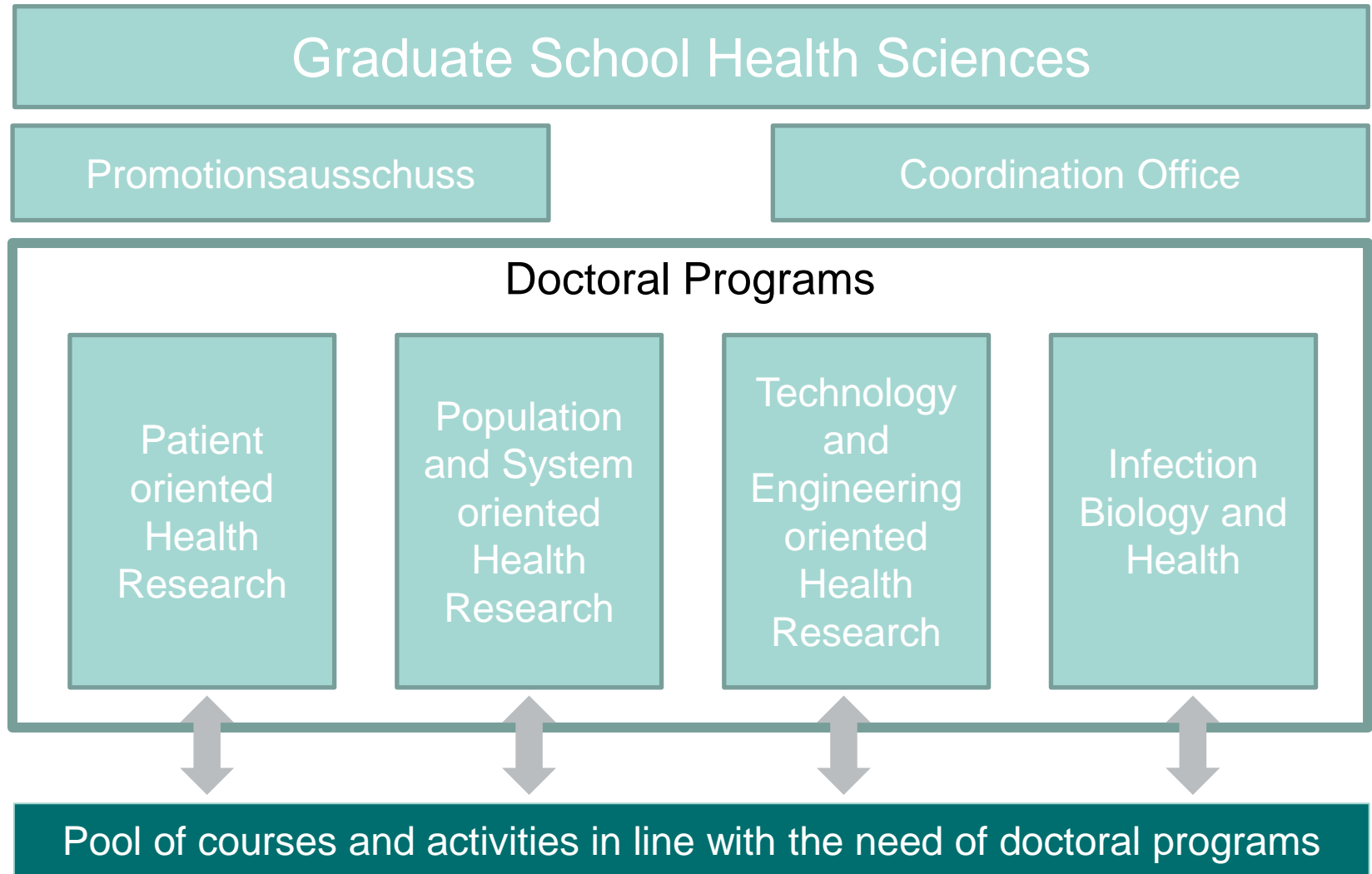


Graduate School Health Science - Benefits

- One structure for PhD education in health science (Phil. Nat. and Med. Faculty)
- one-stop-shop for PhD students and their supervisors
- Broad course / event offer for 300 – 400 PhD students
- Lean governance and administration (avoid redundant admin structures)
- Optimize financial resources



Graduate School Health Sciences - Structure





Graduate School Health Science – Timing

- Interfaculty PhD Regulation (Promotionsordnung) – to be approved by both faculties in November/December 2020
- Approval from Rectorate planned for early 2021
- Switch from PhD Biomed Engineering to GSHS planned for HS 2021



Agenda

1	Welcome, Check of Quorum, Approval of 2019 Assembly Minutes	2'
2	Welcome to New Group Leaders at DBE	10'
3	Personnel and Funding 2020/2021	10'
4	Reports on Tasks Given 2019 by the Assembly and SAB	40'
5	The SAB's Report for the DBE	10'
6	Progress Review with the DBE-Council (27/10/2020)	20'
7	Information on Adaptation of the DBE-Regulations	5'
8	Elections	10'
9	Planning for 2021	3'
10	Varia	20'



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Thanks for your attention

Any questions?

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