

CURRICULUM VITAE

PROF. DR. KARIN WUERTZ-KOZAK

Current Position

Kate Gleason Endowed Full Professor
Rochester Institute of Technology (RIT)
Rochester NY (USA)

CONTENT

A.	RESUME	1 – 7
B.	SERVICE	8 – 10
C.	LIST OF PUBLICATIONS	11 – 18
D.	FUNDING ACQUISITION	19 – 23
E.	TEACHING AND SUPERVISION	24 – 35

Last up-dated December 9th, 2020

A. RESUME

Personal Information

Name: Prof. Dr. Karin Wuertz-Kozak

Date of Birth: 9.4.1978

Place of Birth: Ingolstadt, Germany

Marital Status: Married

Current Position: Kate Gleason Endowed Full Professor

Work Details: Department of Biomedical Engineering
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Scientific Profiles: Researcher ID: G-3144-2012
<https://scholar.google.ch/citations?user=Z8aCEDUAAAAJ&hl=de>

Education and Training

11/2016 Good Clinical Practice Training
Clinical Trial Center Zurich, Switzerland
GCP Modules 1-3 (Basic Modules + Advanced Course for Sponsor-Investigators)

10/2015 – 07/2016 Habilitation
ETH Zurich, Switzerland
Venia Legendi (Pathophysiology & Molecular/Regenerative Medicine)

10/2013 – 10/2015 Master of Business Administration in Leadership and Sustainability
University of Cambria, UK
MBA (with distinction)

03/2014 Qualification as Director for Animal Experimentation (**FELASA C**)

07/2003 – 01/2006 Doctoral Studies, Institute for Biomechanics
University of Ulm, Germany
Ph.D. (Hum Biol), awarded 27.01.2006 (magna cum laude)

09/1997 – 06/2003 Bachelor & Master Studies in Pharmaceutical Sciences ("Pharmazie")
University of Regensburg, Germany
Registered Pharmacist (**Approbation, R. Ph.**)

Professional History

Since 10/2019	Kate Gleason Endowed Full Professor Department of Biomedical Engineering Kate Gleason College of Engineering Rochester Institute of Technology (RIT), USA
07/2016 – 09/2019	Assistant Professor for Immunoengineering & Regenerative Medicine Institute for Biomechanics Department of Health Sciences and Technology ETH Zurich, Switzerland
Since 07/2016	Head of Science Office Spine Scientific Consultancy Schön Clinic Group, Germany
Since 02/2016	Co-Founder and Member of the Executive Board WWR Invest & Consult GmbH, Switzerland
01/2016-07/2019	Guest Professor Department of Sport and Health Sciences University of Potsdam, Germany
07/2012 – 06/2016	Senior Research Associate Group Leader and Lecturer Institute for Biomechanics, D-HEST ETH Zurich, Switzerland
11/2011 – 06/2012	Shared Position as Senior Research Associate Group Leader and Lecturer University of Zurich and ETH Zurich, Switzerland
05/2009 – 10/2011	Senior Research Associate Group Leader CABMM, University of Zurich, Switzerland
09/2007 – 04/2009	Senior Research Associate Deputy Group Leader CABMM, University of Zurich, Switzerland
11/2006 – 07/2007	Research Associate Deputy Group Leader Department of Bioengineering University of Vermont, USA
02/2006 – 10/2006	Postdoctoral Fellow Department of Bioengineering University of Vermont, USA
10/2003 – 01/2006	Part-time Pharmacist Apotheke im Blautalcenter, Ulm, Germany
07/2003 – 01/2006	PhD Student Institute of Orthopaedic Research and Biomechanics University of Ulm, Germany

Professional Memberships

Since 2016	Member of the ORS Spine Section
Since 2016	Member of the German Spine Society
Since 2010	Member of the International Society for the Study of the Lumbar Spine
Since 2010	Member of the Spine Society of Europe
2008 - 2016	Member of AOSpine
Since 2006	Member of the Orthopedic Research Society
2007 – 2015	Member of the German Society for Biomechanics

Selected Invited Talks

10/2019	Research Meeting of the Japanese Orthopaedic Association Yokohama, Japan « <i>New horizons in degenerative disc disease</i> » Keynote Talk
10/2019	Eurospine EuSAAB Pre-day Course Helsinki, Finland « <i>Inflammatory mediators in disc degeneration: Are they of clinical importance?</i> » Keynote Talk
06/2019	International Spine Summit Madrid, Spain « <i>Stem cells in spinal therapy</i> » Keynote Talk
04/2019	BioSpine7 Rome, Italy « <i>Mechano-Immunosensing and disc degeneration</i> » Keynote Talk
03/2019	Annual Meeting of the German Society for Matrix Biology Regensburg, Germany « <i>Career Planning</i> » Leader of Mentorship Session during the Young Investigator Submeeting
02/2019	Rochester Institute of Technology (RIT) Rochester, USA « <i>Engineering therapeutic approaches to modulating inflammation</i> » Institutional Lecture
02/2019	EMPA St-Gallen, Switzerland « <i>Nanofiber technology: Designing the next generation of 3D skin models</i> » Institutional Lecture

- 06/2018 Spine Academy 2018: Current concepts, controversies and future developments in spine surgery
«*Current research concepts*»
Keynote Talk
- 03/2018 Neurospine Meeting
Bern, Switzerland
«*Inflammaging: Molecular Pathology of Aging*»
Keynote Talk
- 02/2018 SWISS SCC Winter Seminar
Davos, Switzerland
«*3D Hautmodelle: Gegenwart und Zukunft*»
(*The Present and Future 3D Skin Models*)
Keynote Talk
- 01/2018 Swiss Orthopaedics Education Day
Bern, Switzerland
«*Biomechanics and Biology of the Spine*»
Keynote Talk
- 07/2017 Fukushima Medical University
Fukushima, Japan
«*Biology and Regen. Medicine Aspects of the Intervertebral Disc*»
Institutional Lecture
- 07/2017 Conference on Neurology and Neurosurgery
Paris, France
«*Biology and Regen. Medicine Aspects of the Intervertebral Disc*»
Keynote Talk
- 06/2017 Wissen-schaf(f)t Wissen Series of the ZIHP
Zurich, Switzerland
«*Das Kreuz mit dem Kreuz*»
(*The problem of back pain*)
Keynote Talk
- 10/2016 Eurospine Precourse "Future of Spinal Surgery"
Berlin, Germany
«*Current status and future of tissue engineering and stem cells*»
Keynote Talk
- 09/2016 ETH Postdoc Day
Zurich, Switzerland
«*How to succeed in academia (maybe)*»
Keynote Talk
- 06/2016 Fix the Leaky Pipeline - A career building program for women in science
Bern, Switzerland
«*Academic Careers*»
Keynote Talk

- 05/2016 National University of Singapore
Singapore
«*Molecular Therapies for Degenerative Disc Disease*»
Institutional Lecture
- 05/2016 Virtual Physiological Human Research Summer School
Barcelona, Spain
«*Intervertebral Disc Pathophysiology*»
Keynote Talk
- 02/2016 Medical Department of the Charité Berlin
Berlin, Germany
«*Molecular Mechanisms of Back Pain*»
Institutional Lecture
- 02/2016 Symposium of the Association of Young Scientists in the Biomedical
Field in Switzerland
Zurich, Switzerland
«*How to succeed in academia*»
Keynote Talk
- 07/2015 AO Research Institute
Davos, Switzerland
«*From molecular pathophysiology to regenerative medicine: Is this
possible for degenerative disc disease?*»
Institutional Lecture
- 01/2013 Unfallkrankenhaus Berlin
Berlin, Germany
«*Molekulare und genetische Ursachen von bandscheibenbedingten
Rückenschmerzen*»
(*Molecular and genetic causes of discogenic back pain*)
Institutional Lecture
- 11/2011 School of Biomedical Sciences, University of Hong Kong
Hong Kong
«*The molecular mechanisms of back pain*»
Institutional Lecture
- 09/2009 AOSpine Masterclass in Technological & Biological Innovations in Spine
Surgery
Düsseldorf, Germany
«*Pathomorphology of disc and facet joints*»
Keynote Talk
- 08/2008 3rd Int. Summer School in Advanced Biotechnology Palermo, Italy
«*Tissue engineering of the intervertebral disc*»
Keynote Talk

Public Outreach and Press

- 2019 Informationsdienst Wissenschaft, published in e.g. MTA Dialog, Ärztezeitung and Gesund-aktiv-älter-werden
«*Stress macht morsche Knochen – Studie zeigt, dass sich psychische Belastungen negativ auf den Knochenstoffwechsel auswirken*»
- 2018 Conference of the Teaching Commission, ETH Zurich
“*KITE (Key Innovation in Teaching) Award: Nominierte Projekte 2018*”
- 2017 *Public Talk at Wissen-schaf(f)t Wissen*
«*Das Kreuz mit dem Kreuz*»
- 2017 Portal – Das Potsdamer Universitätsmagazin
«*Morsche Knochen*»
- 2017 Simplifyd ETH Student Podcast
«*Explain your Research*»
- 2016 ETH Zurich Education Specialist Blog
«*An outstanding lab course*»
- 2016 UZH News
«*Brücken vom Hunde- zum Menschenrücken*»
- 2011 Researcher Portrait at the Annual Report of the Competence Center for Applied Biotechnology and Molecular Medicine (CABMM)
- 2011 ZIHP Magazin
«*Ramponierte Stossdämpfer*»

Own Distinctions and Awards

- 2020 Finalist for the Key Innovation in Teaching (KITE) Award
Decision pending: October 2020
Course: Practical Methods in Biofabrication
ETH Zurich
- 2018 Nominee for the Key Innovation in Teaching (KITE) Award
Course: Practical Methods in Tissue Engineering
ETH Zurich
- 2017 Award for the Best Scientific Work presented at DVG-Vet-Congress
German Society for Veterinary Medicine (DVG)
- 2016 SNF Professorship Award
Swiss National Science Foundation
- 2015 Nominee for the Key Innovation in Teaching (KITE) Award
Course: Practical Methods in Tissue Engineering
ETH Zurich
- 2011 Best Podium Presentation Award
Spine Society of Europe

2011	Travel Fellowship German Society for Biomechanics
2011	Medtronic Best Poster Award International Society for the Study of the Lumbar Spine
2010	Travel Fellowship AOSpine
2010	Best Poster Award European Cells and Materials
2009	Finalist Best Paper Award German Spine Society
2008	Finalist Best Paper Award German Spine Society
2008	Travel Fellowship German Society for Biomechanics
2007	Finalist New Investigator Recognition Award Orthopedic Research Society
2006	Travel Fellowship German Society for Biomechanics
2005	Best Basic Science Poster Award Spine Society of Europe

Distinctions, Awards and Faculty Appointments of Team Members

2019	O. Krupkova ISSLS Research Award
2019	E. Cambria SNF Exchange Fellowship Grant
2018	E. Cambria Eurospine Travel Grant from Eurospine for Biomechanics Course Um
2017	E. Cambria Winner of the SBMS Travel Award
2017	O. Krupkova Winner of the IBSA Research Grant
2016	M. Hakoziaki Associate Professorship at Fukushima Medical University
2014	O. Krupkova Winner of the Robert Mathys Foundation Presentation Award at the ECM Meeting 2014 in Davos, Switzerland
2013	O. Krupkova AO SRN Travel Grant to McGill University in Canada

B. SERVICE

Editorial Activities

2019/2020	Guest Editor for the International Journal of Molecular Sciences, Topic “Intervertebral Disc Disease: From Pathophysiology to Novel Therapies”
2018/2019	Guest Editor for the Journal Current Opinion in Biomedical Engineering, Topic “The role of the extracellular matrix in tissue regeneration”
Since 2018	Member of the Neurospine Editorial Board
Since 2017	Member of the eCM International Review Panel
Since 2017	Member of the JOR Spine Advisory Review Board
Since 2015	Member of the Editorial Reviewer Board: Frontiers Veterinary Science
Since 2012	Member of the Advisory Board: Spine

Service to the Scientific Community

Since 2019	Member of the German Spine Society Research Grant Committee
Since 2017	Member of the Eurospine Task Force Research
2017 – 2019	Member of the Eurospine Nomination Committee
Since 2017	Member of the German Spine Society Program Committee
Since 2017	Examiner FPH Offizin Education Program
2017	Accreditation Reviewer of Continuous Education Program “Pharmacy Practice/Dispensing Pharmacist” of Pharmasuisse
2014 – 2016	Member of the Task Force <i>Regenerative Medicine</i> Swiss Society for Biomaterials & Regenerative Medicine
2013 – 2016	Member of the Pharmasuisse Exam Commission (FPH Offizin)
2012 – 2016	Member of the Eurospine Program Committee

Organization of Events, Conferences and Exchange Programs

2020/2021	Faculty Member of the 8th International Congress on Biotechnologies for Spinal Surgery (Biospine 8)
2017	Committee Member for the AOSpine Masters Symposium “Novel and Emerging Technologies Translational Medicine” in Bern, Switzerland
2016	Organization of the ETH Biotechnology Day Workshop of the TEDD Competence Center
2015	Organization of Lab and Networking Event

	Swiss Society for Biomaterials & Regenerative Medicine, Switzerland
2014	Organization of Lab Event for the National Future Day, Switzerland
2012	Organization of Exhibition Booth at the Scientifica, Switzerland
Since 2011	Organization of an Exchange Program with the Fukushima Medical University, Japan
Since 2008	Organization of biannual Swiss-Japanese Symposium on Disc/Spine Research

Institutional Service

2020	Member of the PHT180 Leadership Board Rochester Institute of Technology, USA
2020	Member of the Institutional Biosafety Committee Rochester Institute of Technology, USA
2020	Member of the EMBA in Life Science Development Team <i>Development of the NYSED Proposal for RIT's anticipated Executive MBA in Life Science (Track Biomedical Engineering)</i> Rochester Institute of Technology, USA
2020	Member of the Multi-Scale Integrative Biomechanics Cluster Hire Team <i>Development of the Proposal for Strategic Incremental Faculty Hires in Multi-Scale Integrative Biomechanics</i> Rochester Institute of Technology, USA
2018	Member of ETH MSc Student Medal Committee <i>Determination of the best MSc Thesis Projects of HST students</i> Department of Health Sciences & Techn., ETH Zurich, Switzerland
2017	Member of ETH Doctoral Student Medal Committee <i>Determination of the best PhD Thesis Projects</i> Department of Health Sciences & Techn., ETH Zurich, Switzerland
Since 2015	Deputy Director for Animal Experiments Institute for Biomechanics, ETH Zurich, Switzerland
Since 2015	Biosafety Officer Institute for Biomechanics (HPP Labs), ETH Zurich, Switzerland
2015 - 2018	Member of the Teaching Commission Department of Health Sciences & Techn., ETH Zurich, Switzerland

Reviewing Activities

Journals

European Spine Journal, Journal of Orthopedic Research, European Cells and Materials, Spine, Journal of Visualized Experiments, British Journal of Clinical Pharmacology, The Spine Journal, Arthritis Research & Therapy, Swiss Medical Weekly, Cells, Journal of Tissue

Engineering & Regenerative Medicine, Advances in Stem Cells, International Immunopharmacology, African Journal of Pharmacy & Pharmacology, Arthritis & Rheumatism, Global Spine Journal, Tissue Engineering, International Journal of Molecular Sciences, Current Stem Cell Research & Therapy, Cellular Physiology and Biochemistry, PLOS ONE, Molecules, Frontiers in Veterinary Science, Ageing Research Reviews, Scientific Reports Nature, JBJS, Nutrients, Molecular and Cellular Endocrinology, NPJ Regenerative Medicine, Frontiers in Veterinary Science, JOR Spine, RSC Advances

Grants/Fellowships

AO Research Grants, German-Israeli Foundation for Scientific Research and Development, National Science Center Poland, Medical Research Council UK, Health and Medical Research Fund Hong Kong, SSSTC Programme, ARTHRITIS Fondation COURTIN France, NSERC Canada, Cancer Research UK, Research Council UK, German Research Society DWG

Conferences

Orthopedic Research Society (ORS), Spine Society of Europe (SSE), International Society for the Study of the Lumbar Spine (ISSLS), Global Spine Congress/World Forum for Spine Research, German Spine Society, AOSpine Masters Symposium, Biospine

Tenure Evaluation

2019 Faculty member at Reykjavík University (name not disclosed for confidentiality)

Others

2020 Evaluation of the newly developed program "MATRIX3D: Musculoskeletal Advanced Translational Research Initiative for complex 3D tissue regeneration" within the Life Sciences Competence Center (LS-CC) in Lugano, Switzerland

C. LIST OF PUBLICATIONS



Peer-Reviewed Publications

▲ shared first/last authorship

- 75 Herold T, Kothe R, Siepe CJ, Heese O, Hitzl W, Korge A, **Wuertz-Kozak K**
Effect of BMI on the clinical outcome following microsurgical decompression in over-the-top technique: Bi-centric study with an analysis of 744 patients
European Spine Journal **2020**, accepted
- 74 Wangler S, Kamali A, Wapp C; **Wuertz-Kozak K**, Häckel S, Fortes C, Benneker LM, Haglund L, Richards GR, Alini M, Peroglio M, Grad S
Uncovering the secretome of mesenchymal stromal cells exposed to healthy, traumatic and degenerative intervertebral discs: A proteomic analysis
Stem Cell Research & Therapy **2020**, accepted
- 73 Schmidli RM, Sadowska A, Cvitas I, Gantenbein B, Lischer HE, Forterre S, Hitzl W, Forterre F, **Wuertz-Kozak K**
Fibronectin Fragments and Inflammation during Canine Intervertebral Disc Disease
Frontiers in Veterinary Science **2020**, epub ahead
- 72 **Wuertz-Kozak K**▲, Roszkowski M▲, Cambria E, Block A, Kuhn GA, Abele T, Hitzl W, Drießlein D, Müller R, Rapp MA, Mansuy IM, Peters EMJ, Wippert PM
Effects of early life stress on bone homeostasis in mice and humans
Int J Mol Sci. **2020** Sep 10;21(18):E6634.
- 71 De Pieri A, Byerley AM, Musumeci CR, Saleemizadehparizi F, Vanderhorst MA, **Wuertz-Kozak K**
Electrospinning and 3D bioprinting for intervertebral disc tissue engineering.
JOR Spine **2020**, epub ahead.
- 70 Cambria E, Arlt MJE, Wandel S, Krupkova O, Hitzl W, Passini FS, Haumann ON, Snedeker JG, Ferguson SJ, **Wuertz-Kozak K**
TRPV4 inhibition and CRISPR-Cas9 knockout reduce inflammation induced by hyper-physiological stretching in human annulus fibrosus cells.
Cells **2020**, 9, 1736
- 69 Schmid B, Hausmann ON, Hitzl W, Achermann Y, **Wuertz-Kozak K**
The role of Cutibacterium acnes in intervertebral disc inflammation
Biomedicines **2020** Jun 30;8(7):E186
- 68 Tai YK, Ng C, Purnamawati K, Yap JLY, Yin JN, Wong C, Patel BK, Soong PL, Pelczar P, Fröhlich J, Beyer C, Fong CHH, Ramanan S, Casarosa M, Cerrato CP,

- Foo ZL, Selvan RMP, Grishina E, Degirmenci U, Toh SJ, Richards PJ, Mirsaidi A, **Wuertz-Kozak K**, Chong SY, Ferguson SJ, Aguzzi A, Monici M, Sun L, Drum CL, Wang J-W, Franco-Obregón A
Magnetic fields modulate metabolism and gut microbiome in correlation with Pgc-1 α expression: Follow-up to an in vitro magnetic mitohormetic study
FASEB J. **2020**, Jul 6. epub ahead
- 67 Sadowska A, Altinay B, Hitzl W, Ferguson SJ, **Wuertz-Kozak K**
Hypo-osmotic loading induces expression of IL-6 in nucleus pulposus cells of the intervertebral disc independent of TRPV4 and TRPM7
Front Pharmacology **2020** Jul 1;11:952.
- 66 Cazzanelli P, **Wuertz-Kozak K**
MicroRNAs in Intervertebral Disc Degeneration, Apoptosis, Inflammation, and Mechanobiology
Int. J. Mol. Sci. **2020**, 21(10), 3601.
- 65 Cambria E, Brunner S, Heusser S, Fisch P, Hitzl W, Ferguson SJ, **Wuertz-Kozak K**
Cell-laden agarose-collagen composite hydrogels for mechanotransduction studies.
Front Bioeng Biotechnol. **2020**, Apr 21;8:346.
- 64 Piazza N, Mehdi D, Gaborski TR, **Wuertz-Kozak K**
Therapeutic potential of extracellular vesicles in degenerative diseases of the intervertebral disc
Front Bioeng Biotechnol. **2020**; 8: 311.
- 63 Krupkova O, Greutert H, Boos N, Lemcke J, Liebscher T, **Wuertz-Kozak K**
Expression and activity of hyaluronidases HYAL-1, HYAL-2 and HYAL/3 in the human intervertebral disc
Eur Spine J. **2020** Mar;29(3):605-615.
- 62 Sadowska A, Hitzl W, Karol A, Jaszczuk P, Cherif H, Haglund L, Hausmann ON, **Wuertz-Kozak K**
Differential regulation of TRP channel gene and protein expression by intervertebral disc degeneration and back pain
Sci Rep. **2019** Dec 11;9(1):18889.
- 61 Wippert P M, Block A, Mansuy I M, Peters E M J, Rose M, Rapp M A, Huppertz A, **Wuertz-Kozak K**
Alterations in bone homeostasis and microstructure related to depression and allostatic load
Psychother Psychosom. **2019**;88(6):383-385.
- 60 Loepfe M, Duss A, Zafeiropoulou K A, Björgvinsdóttir O, D'Este M, Eglin D, Fortunato G, Klasen J, Ferguson S J, **Wuertz-Kozak K**▲, Krupkova O▲
Electrospray-based microencapsulation of epigallocatechin 3-gallate for local delivery into the intervertebral disc
Pharmaceutics, **2019** Sept, 11 (9) 435
- 59 Santschi M, Vernengo A, Eglin D, D'Este M▲, **Wuertz-Kozak K**▲
Decellularized matrix as a building block in bioprinting and electrospinning
Current Opinion in Biomedical Engineering, **2019** June, 10, 116-122
- 58 Pehlivanoglu T, **Wuertz-Kozak K**, Heider F, Hitzl W, Sauer D, Wanke-Jellinek L, Mayer M, , Mehren C

Clinical and radiographic outcome of patients with cervical spondylotic myelopathy undergoing total disc replacement
Spine, **2019** Oct 15, 44 (20) 1403-1411

- 57 Mehren C, **Wuertz-Kozak K**, Sauer M, Hitzl W, Pehlivanoglu T, Heider F
Implant design and the anchoring mechanism influence the incidence of heterotopic ossification in cervical total disc replacement at 2-year follow-up
Spine, **2019** Nov 1;44 (21): 1471-1480
- 56 Kameda T, Zvick J, Vuk M, Sadowska A, Tam WK, Leung V, Bölcskei K, Helyes Z, Applegate LA, Hausmann O, Klasen J, Krupkova O ▲, **Wuertz-Kozak K ▲**
Expression and activity of TRPA1 and TRPV1 in the intervertebral disc: association with inflammation and matrix remodeling
Int J Mol Sci, **2019** Apr 10;20(7).
- 55 Mouser VHM, Arkesteijn ITM, van Dijk BGM, **Wuertz-Kozak K**, Ito K
Hypotonicity differentially affects inflammatory marker production by nucleus pulposus tissue in simulated disc degeneration versus herniation
J Orthop Res, **2019** May;37(5):1110-1116.
- 54 Loibl M ▲, **Wuertz-Kozak K ▲**, Vadala G, Fairbanks J, Lang S, Urban J
Controversies in Regenerative Medicine: Should intervertebral disc degeneration be treated with mesenchymal stem cells?
Journal of Orthopedic Research Spine. **2019** Mar; 2(1): e1043.
- 53 Egan P, Wang X, Greutert H, Shea K, **Wuertz-Kozak K**, Ferguson SJ
Mechanical and biological characterization of 3D printed lattices
3D Printing and Additive Manufacturing Journal, **2019**; 6 (2) 73-81
- 52 Mehren C, Heider F, Hitzl W, Sauer D, Korge A, Kothe R, **Wuertz-Kozak K**
Clinical and Radiological Outcome of a new Total Cervical Disc Replacement Design
Spine (Phila Pa 1976). 25 February **2019**; 44 (4) 202-2010.
- 51 **Wuertz-Kozak K**, Bleisch D, Nadi N, Prömmel P, Hitzl W, Kessler T, Gautschi O, Hausmann ON
Sexual and urinary function following anterior lumbar surgery in females
Neurourology and Urodynamics, **2019** Feb, 38 (2) 632-636.
- 50 Sadowska A, Kameda T, Krupkova O ▲, **Wuertz-Kozak K ▲**
Osmosensing, osmosignaling and inflammation: How intervertebral disc cells respond to altered osmolarity
European Cells and Materials, **2018** Nov; 36: 231-250.
- 49 Randall M, Riemann M, Jüngel A, **Wuertz-Kozak K**
Advances in the Biofabrication of 3D Skin in vitro: Healthy and Pathological Models
Frontiers Bioengineering, **2018**; 6: 154.
- 48 Krupkova O, Sadowska A, Kameda T, Hausmann O, Klasen J, **Wuertz-Kozak K**
p38 MAPK facilitates crosstalk between endoplasmic reticulum stress and IL-6 release in the intervertebral disc
Frontiers in Immunology, 17 August **2018** Aug 17;9:1706.
- 47 Franco-Obregón A, Cambria E, Greutert H, Wernas T, Egli M, Sekiguchi M, Boos N, Hausmann ON, Ferguson SJ, Kobayashi H ▲, **Wuertz-Kozak K ▲**
TRPC6 in simulated microgravity of intervertebral disc cells

- Eur Spine J. **2018** Oct;27(10):2621-2630.
- 46 Krupkova O, Smolders L, **Wuertz-Kozak K**, Cook JL, Pozzi A
The pathobiology of the meniscus: a comparison between the human and dog
Frontiers Veterinary Science, **2018** Apr 16;5:73.
- 45 O. Krupkova, E. Cambia, L. Besse, A. Besse, R. Bowles, **K. Wuertz-Kozak**
The Potential of CRISPR/Cas9 Genome Editing for the Study and Treatment of
Intervertebral Disc Pathologies
JOR Spine, **2018**, 1 (1), e1003.
- 44 A. Sadowska, O. Hausmann, **K. Wuertz-Kozak**
Inflammaging in the intervertebral disc
Clinical and Translational Neuroscience, **2018**, 2 (1).
- 43 Sadowska A, Touli E, Hitzl W, Greutert H, Ferguson SJ, **Wuertz-Kozak K[▲]**,
Hausmann ON[▲]
Inflammaging in cervical and lumbar degenerated intervertebral discs: Analysis of
proinflammatory cytokine and TRP channel expression
Eur Spine J. **2018** Mar;27(3):564-577.
- 42 Monchaux M, Forterre S, Spreng D, Karol A, Forterre F[▲], **Wuertz-Kozak K[▲]**
Inflammatory processes associated with canine intervertebral disc herniation
Frontiers in Immunology, **2017** Dec 4;8:1681.
- 41 Wu Y, Stoddart MJ, **Wuertz-Kozak K**, Grad S, Alini M, Ferguson SJ
Hyaluronan supplementation as a mechanical regulator of cartilage tissue
development under joint-kinematic-mimicking loading.
J R Soc Interface, **2017** Aug;14(133).
- 40 Kang MS, Lim HS, Oh JS, Lim YJ, **Wuertz-Kozak K**, Harro JM, Shirtliff ME,
Achermann Y
Antimicrobial activity of Lactobacillus salivarius and Lactobacillus fermentum against
Staphylococcus aureus.
Pathog Dis., **2017** Mar 1;75(2).
- 39 Krupkova O, Zvick J, **Wuertz-Kozak K**
The role of TRP channels in joint diseases
Eur Cell Mater, **2017** Oct 10;34:180-201.
- 38 Wippert PM, Rector M, Kuhn G, **Wuertz-Kozak K**
Stress and Alterations in Bones: An Interdisciplinary Perspective
Frontiers in Endocrinology, **2017** May 1;8:96.
- 37 Krupkova O, Hlavna M, Tahmaseb JA, Zvick J, Kunz D, Ito K, Ferguson SJ, **Wuertz-
Kozak K**
An Inflammatory Nucleus Pulposus Tissue Culture Model to Test Molecular
Regenerative Therapies: Validation with Epigallocatechin 3-Gallate
Int. J. Mol. Sci., **2016**, 17(10), 1640.
- 36 Krupkova O, Ferguson SJ, **Wuertz-Kozak K**
Stability of (-) epigallocatechin gallate and its activity in liquid formulations and
delivery systems
J Nutr Biochem, **2016** Nov 37, 1-12.

- 35 Krupkova O, Handa J, Hlavna M, Klasen J, Ospelt C, Ferguson SJ, **Wuertz-Kozak K**
The natural polyphenol epigallocatechin 3-gallate protects intervertebral disc cells from oxidative stress
Oxid Med Cell Longev. **2016**;2016:7031397.
- 34 Spaas JH, Broeckx SY, Chiers K, Ferguson SJ, Casarosa M, Van Bruaene N, Forsyth R, Duchateau L, Franco-Obregón A[▲], **Wuertz K[▲]**
Chondrogenic priming at reduced cell density enhances cartilage adhesion of equine allogeneic MSCs - a loading sensitive phenomenon in an organ culture study with 180 explants
Cell Phys Biochem, **2015** Sep 8;37(2):651-665.
- 33 Kurth F, Franco-Obregón A, Casarosa M, Küster SK, **Wuertz-Kozak K**, Dittrich PS
TRPV2-mediated shear-stress responses in C2C12 myoblasts are regulated by serum and extracellular matrix
FASEB J, **2015** Jul 23 pii: fj.15-275396.
- 32 Gantenbein B, Calandriello E, **Wuertz-Kozak K**, Benneker LM, Keel, MJ, Chan SCW
Activation of intervertebral disc cells by co-culture with notochordal cells, conditioned medium and hypoxia.
BMC Musculoskelet Disord **2014** Dec 11;15(1):422.
- 32 Krupkova O, Sekiguchi M, Klasen J, Hausmann O, Konno S, Ferguson SJ, **Wuertz Kozak K**
Epigallocatechin 3-gallate supresses interleukin-1 β -induced inflammatory responses in intervertebral disc cells in vitro and reduces radiculopathic pain in rats.
Eur Cell Material, **2014** Nov 25;28:372-86.
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Book Chapters and Monographs

Rückenschmerz und Lendenwirbelsäule: Interdisziplinäres Praxisbuch

Chapter: „Die Wirbelsäule im Alterungsprozess“ (Wuertz K, Boos N, Nerlich AG)

Editors: Hildebrandt, Pfingsten (Urban & Fischer Verlag/Elsevier GmbH)

4. Oktober 2011; ISBN-10: 3437232517; ISBN-13: 978-3437232510

Wuertz-Kozak K

Degenerative Disc Disease: From Pathobiology to Molecular Therapy (**2016**)

Habilitation thesis (Venia Legendi), ETH Zurich, Switzerland

Wuertz-Kozak K

Implementation of Lean Management in Swiss Hospitals: A Multi-Case Study on the Effects of Staff Information and Training on Adoption and Utilization of Lean (**2015**)

MBA thesis (with distinction), University of Cumbria, UK

Wuertz K

Einfluss mechanischer Reize auf humane und bovine Bandscheibenzellen (**2006**)

PhD thesis (magna cum laude), University of Ulm, Germany

C. FUNDING ACQUISITION

Principal Investigator: **bold**
Co-Applicant: normal font

Peer-Reviewed Funding

Funding Agency	Duration	Applicants	Title	Amount
SNF Project Grant Prolongation	07/2020 – 08/2020	Wuertz-Kozak	Unlocking the mechanisms of mechanotransduction in degenerative disc disease	21'350 CHF = 23'000 USD (21'350 CHF total)
PHT180	03/2020 – 02/2021	Wuertz-Kozak Gaborski Abhyankar	Degree of aligned ECM interaction necessary for cellular guidance in tissue engineered constructs	\$5'000 USD = 4600 CHF (\$15'000 total)
ISSLS Research Award	07/2019 – 06/2020	Krupkova Wuertz-Kozak	Cell-based delivery of GDF-5 for regeneration of the IVD using CRISPR	11'000 CHF = 12'000 USD (11'000 CHF total)
SNF Project Grant	05/2019 – 04/2023	Wuertz-Kozak	Functional role of TLR-associated microRNAs in intervertebral disc pathophysiology	407'463 CHF = 443'000 USD (407'463 CHF total)
SNF Travel Grant	03/2019 – 09/2019	Wuertz-Kozak Cambria	Disc-on-a-chip with application of compressive forces	10'000 CHF = 10'800 USD (10'000 CHF total)
Horizon 2020 MSCA-ITN	01/2019 -12/2022	Persson + Consortium Ferguson & Wuertz-Kozak <i>Et al.</i>	NU-SPINE Training innovative future leaders in research and development of materials and implants for the spine	843'830 € ETH = 980'100 CHF** = 1 million USD (4'274'478 € total)
Heel	07/2018-06/2020	Forterre Wuertz-Kozak	The Role of Fibronectin Fragments in Immune Modulation and Inflammation during Canine Disc Disease	20'000 € = 23'500 CHF = 25'500 USD (103'500€ total)
CABMM Start-up	12/2017-11/2018	Pozzi Krupkova Wuertz-Kozak	Canine spontaneous meniscal pathology: A suitable model for translational medicine?	30'000 CHF = 32'600 USD (39'000 CHF total)
CABMM Start-up	01/2018 – 12/2019	Wuertz-Kozak Haschtmann Fekete Salzmann	Pseudarthrosis or successful spinal fusion – do predictive serum biomarkers exist?	32'100 CHF = 35'000 USD (32'100 CHF total)
CABMM Start-up	12/2017 – 11/2019	Stoyanov Krupkova Wuertz-Kozak	Erythrocyte-based nanotechnology for personalized delivery of naturally derived anti-inflammatory drugs	14'644 CHF = 16'000 USD (33'650 CHF total)
CTI	04/2017 – 03/2019	Dudler Lüder Wuertz-Kozak Zinn	Novel anti-aging cosmetic products based on extracts of microalgae	270'000 CHF = 293'500 USD (1'166'000 CHF total)

CABMM Start-up	02/2017 – 01/2018	Wuertz-Kozak Achermann	The role of <i>Propionibacterium acnes</i> infection in intervertebral disc inflammation	18'000 CHF = 19'600 USD (28'000 CHF total)
Vontobel Foundation	01/2017-12/2017	Wuertz-Kozak	Entwicklung einer neuartigen Wundauflage zur verbesserten Behandlung diabetischer Fuß-Ulzera	19'000 CHF = 20'600 USD (19'000 CHF total)
Eurospine	07/2016-06/2020	Wuertz-Kozak Ferguson Franco-Obregon	TRP channels in IVDs: Where load, inflammation & pain meet	80'000 € = 86'500 CHF = 94'000 USD (86'500 CHF total)
SNF Professorship	07/2016 – 06/2020	Wuertz-Kozak Ferguson Franco-Obregon	Unlocking the mechanisms of mechanotransduction in degenerative disc disease	1'595'000 CHF = 1.73 million USD (1'595'000 CHF total)
CABMM Start-up	01/2016-12/2016	Wuertz-Kozak Smolders	Identification of inflammatory and pain markers in degenerative spinal disease	38'000 CHF = 41'300 USD (38'000 CHF total*)
OPO Foundation	01/2016-12/2016	Wuertz-Kozak Smolders	Identification of inflammatory and pain markers in degenerative spinal disease	49'000 CHF = 53'300 USD (49'000 CHF total*)
ETH Equipment > 50'000	2015	Wuertz-Kozak Ferguson Zenobi-Wong	Electrospinning/3D Printing	125'000 CHF = 136'000 USD (125'000 CHF total)
CABMM Start-up	01/2015 - 12/2015	Wuertz-Kozak Bode Ferguson Hausmann	Development and characterization of a pH sensitive slow release system to reduce inflammatory processes in the degenerated intervertebral disc	31'300 CHF = 34'000 USD (31'300 CHF total)
Sciex	10/2014-09/2015	Wuertz-Kozak Hlawna	Development of a novel tissue culture model for degenerative disc disease	104'000 CHF = 113'000 USD (104'000 CHF total)
Hochschulmedizin Zurich	08/2014-07/2017	Falk / Mazza In total 20 research groups, including Ferguson Wuertz-Kozak	Zurich Heart Project (Subproject: Hybrid Membrane)	132'000 CHF*** 143'500 USD (total > 1.5 million CHF)
Eurospine	07/2014-06/2015	Wuertz-Kozak Ferguson Bode	PH-sensitive slow release systems to reduce disc inflammation	10'000 € = 12'150 CHF = 13'200 USD (12'500 CHF total)
German Spine Society	12/2013-11/2015	Liebscher Wuertz-Kozak	Diagnostik und Therapie molekularer und genetischer Veränderungen von bandscheibenbedingten Rückenschmerzen	7'000 € = 8'500 CHF = 9'200 USD (11'000 CHF total)
Herzog-Egli Foundation	12/2013-11/2014	Wuertz-Kozak Ospelt	Investigating the anti-inflammatory, anti-catabolic, anti-apoptotic and anti-senescence properties of Epigallocatechin gallate (EGCG) in human intervertebral disc cells	10'000 CHF 10'800 USD (10'000 CHF total)

CABMM Start-up	09/2013-08/2014	Forterre Wuertz-Kozak Spreng	Investigation of the inflammatory processes associated with canine IVD herniation	37'900 CHF = 41'200 USD (37'900 CHF total)
CABMM Start-up	09/2013-08/2014	Wuertz-Kozak Gantenbein	Expression, regulation and relevance of hyaluronidases in the intervertebral disc	29'800 CHF = 32'400 USD (29'800 CHF total)
AO Research Foundation	06/2013-05/2016	Ferguson Wuertz-Kozak (consortium project)	Annulus Fibrosus Repair	309'400 CHF*** = 336'300 USD (total > 2 million CHF)
CABMM Start-up	09/2012-08/2013	Franco-Obregón Wuertz-Kozak Hausmann	Mechanisms of Mechano-transduction in Human IVD Cells upon Stimulation with PEMF or Strain	37'500 CHF 40'800 USD (37'500 CHF total)
Eurospine	09/2012-08/2013	Wuertz-Kozak Franco-Obregon Ferguson Boos	In vitro investigation of PEMF to treat IVD degeneration	20'000 € = 24'000 CHF = 26'000 USD (24'000 CHF total)
CABMM Start-up	10/2011-09/2012	Wuertz-Kozak Hausmann Gay	Investigating the role of Toll-like receptor 2 in intervertebral disc degeneration and inflammation	35'000 CHF = 38'000 USD (35'000 CHF total)
SNF	10/2010-12/2012	Wuertz-Kozak Boos	Accumulation of N-(carboxymethyl)-lysine and hyaluronic acid fragments in the ageing intervertebral disc – a potential trigger of disco-genic back pain	160'000 CHF = 174'000 USD (160'000 CHF total)
Swisslife	06/2009-06/2011	Wuertz-Kozak	MSC treatment in the disc	30'000 CHF = 32'600 USD (30'000 CHF total)
Herzog Egli Foundation	03/2009-04/2010	Wuertz-Kozak Ospelt	Toll-like receptors in the intervertebral disc	10'000 CHF = 10'800 USD (10'000 CHF total)
CTI	06/2008-12/2009	Graf-Hauser Durner Patocchi-Tenzer Boos Wuertz-Kozak	Automation of tissue culture processes for regenerative medicine applications	50'000 CHF = 54'300 USD (total 1'071'000 CHF)
Holcim	05/2008-04/2007	Wuertz-Kozak	Stem-cell based intervertebral disc regeneration	80'000 CHF = 87'000 USD (80'000 CHF total)
Total in CHF and USD				4'836'807 CHF = 5.18 mill. USD

* Funding transferred to account of collaborators, but research fully conducted in the lab of Wuertz-Kozak

** Funds transferred to account of Prof. Ferguson who is now leading this part of the project due to my move to the US and the regulations of Horizon2020 on international collaborators.

*** Funds transferred to account of Prof. Ferguson and then used together

Peer-Reviewed Funding without Cash Flow (Collaborations)

EU Horizon 2020 ITN Network	11/2020-20/2024	Noaily <i>Plus Numerous Applicants/Partners</i> Wuertz-Kozak = Partner	Training network to advance integrated computational simulations in translational medicine, applied to intervertebral disc degeneration (Disc4All)	€ 3'996'776 = 4.7 million USD Partners get reimbursed for costs ~ 20'000 USD for RIT
Novartis	09/2018-08/2019	Jüngel Wuertz-Kozak	Development of a standardized humanized 3D skin model for SSc using double-layered, nanofibrous polycaprolactone scaffolds	57'546 CHF = 62'500 USD For Dr. Jüngel
CABMM Start-up	03/2013-02/2014	Born Zenobi-Wong Wuertz-Kozak	NEMO and IKKβ: Identifying potential targets for treatment of early osteoarthritis using shRNA technology	39'400 CHF = 42'800 USD For Prof. Zenobi-Wong
CABMM Start-up	08/2012-07/2013	Gantenbein Wuertz-Kozak	Investigation of the Regenerative Effects of NC Cells onto bovine Intervertebral Disc Cells under Co-culture	35'000 CHF = 38'000 USD For Prof. Gantenbein
CABMM Start-up	01/2011-12/2011	Richards Wuertz-Kozak	Role of serine protease HtrA1 in spinal disc degeneration	24'100 CHF 26'200 USD For Dr. Richards
SNF	01/2010-12/2012	Gantenbein Wuertz-Kozak	Evolution of in vitro Intervertebral Disc Culture Systems: Two Degrees of Freedom Loading to Study Region-Specific and Synergistic Degenerative Processes	252'000 CHF = 273'800 USD For Prof. Gantenbein

Not Peer-Reviewed Funding

Funding Agency	Duration	Applicants	Title	Amount
ETH Equipment < 50'000	2018	Wuertz-Kozak	Cold Storage	21'582 CHF = 23'500 USD
ETH Equipment < 50'000	2016	Wuertz-Kozak	Automated Patch-Clamp	42'500 CHF = 46'200 USD
Enabel Stiftung	2015	Wuertz-Kozak	Young Scientist Network Event Support	400 CHF = 435 USD
ETH Equipment < 50'000	2014	Wuertz-Kozak Ferguson	Autoclave	32'000 CHF = 35'000 USD
SAMW	2013	Wuertz-Kozak	Symposium Support	1'500 CHF = 1'600 USD
Global Stem Cell Technology	12/2013-11/2014	Wuertz-Kozak	Equine stem cells for cartilage repair	15'000 € = 16'250 CHF = 17'650 USD

SAMW	2010	Wuertz-Kozak	Symposium Support	1'000 CHF = 1080 USD
ZUNIV	2010	Wuertz-Kozak	Symposium Support	1'150 CHF = 1250 USD
Hermann Klaus Foundation	2009	Wuertz-Kozak	Liquid Nitrogen Storage Tank	1'800 CHF = 2' 000 USD
Total in CHF				118'182 CHF = 128'715 USD

D. TEACHING AND SUPERVISION

1. TEACHING EXPERIENCE

Teaching at RIT

- Since Spring 2020 Introduction to Biomaterials (BIME370)
Rochester Institute of Technology
Undergraduate Students
Core Course, 3 Credit Points
2x75 min lecture/week (Spring Semester)
- Starting Fall 2020 Tissue Engineering (BIME670)
Rochester Institute of Technology
Graduate Students (and selected Undergraduate Students)
Elective, 3 Credit Points
2x75 min lecture/week (Fall Semester)
- Starting 2021 Practical Methods in Tissue Engineering (BIME675)
Rochester Institute of Technology
Graduate Students (and selected Undergraduate Students)
Elective, 3 Credit Points
2x60 min lecture + 3x60 min lab/week (Fall Semester)
The start of this new course was postponed by 1 year due to COVID-19

Teaching at ETH Zurich

- Since 2018 Practical Methods in Biofabrication
ETH Zurich, Zurich, Switzerland
ETH Master Students
5 ECTS (Spring Semester), 4 weekly contact hours, 25% work load
- Since 2016 Colloquium in Biomechanics
ETH Zurich, Switzerland
ETH PhD and Master Students
2 ECTS (Both Semesters), 2 weekly contact hours, 10% work load
- Since 2013 Mechanobiology: Implications for Development, Regeneration and
Tissue Engineering
ETH Zurich, Switzerland
ETH Master Students
2 ECTS (Spring Semester), 2 weekly contact hours, 20% work load
- Since 2015 Practical Methods in Tissue Engineering
ETH Zurich, Zurich, Switzerland
ETH Master Students
5 ECTS (Fall Semester), 4 weekly contact hours, 40% work load
- Since 2013 Bone Biology and Consequences for Human Health
ETH Zurich, Zurich Switzerland
ETH Master Students
2 ECTS (Spring Semester), Co-Lecturer with 2 contact hours

Teaching at University of Zurich

- Since 2017 Regenerative Medicine and Applied Tissue Engineering
University of Zurich, Zurich, Switzerland
UZH Master Students
2 ECTS (Spring Semester), Co-Lecturer with 2 contact hours
- 2015 - 2018 Veterinary Medicine: Comparative morphology and pathophysiology
University of Zurich, Zurich, Switzerland
UZH Master Students
6 ECTS (Fall Semester), Co-Lecturer with 3 contact hours

Teaching at University of Applied Sciences (Zurich, Bern)

- Since 2012 Biomaterials and their interaction with cells and tissue
Zurich University of Applied Sciences ZHAW, Wädenswil, Switzerland
ZHAW Master Students
4 ECTS (Spring Semester), Co-Lecturer with 4 contact hours
- Since 2012 Biokompatible Materialien
Zurich University of Applied Sciences ZHAW, Winterthur, Switzerland
ZHAW Bachelor Students
3 ECTS (Spring Semester), Co-Lecturer with 6 contact hours
- 2016 - 2017 Physiotherapy: Anatomie und Biomechanik des Bewegungssystems
Bern University of Applied Sciences BFH, Bern, Switzerland
BFH Master Students
3 ECTS (Fall Semester), Co-Lecturer with 4 contact hours

Other Teaching

- Since 2017 Eurospine Task Force Research (TFR) Course
International Spine Specialists
- Since 2017 eccElearning Postgraduate Online Education Program
International Spine Specialists

2. TEACHING QUALIFICATION

Habilitation

- 10/2015 – 07/2016 Habilitation
ETH Zurich, Switzerland
Venia Legendi (Pathophysiology & Molecular/Regenerative Medicine)

Didactical Training

- 2016/2017 Teaching at ETH: Committed and skilled (Course 1)
Lehrentwicklung und Technologie ETHZ, 4.5 days
- 2016 Critical thinking in higher education
Center for University Teaching and Learning, 1 day

2016	Coaching for female lecturers Hochschuldidaktik, 3x 2.5 hours
2015	Multiple choice exams Hochschuldidaktik, 2x 4 hours
2015	Presenting with theater-based methods Hochschuldidaktik, 2 days
2015	Teaching and learning in laboratory practical classes Center for University Teaching and Learning, 1 day
2015	Research-related teaching and learning Hochschuldidaktik, 1 day
2009	Basic didactical course for habilitating personnel Medical Faculty of the University of Zurich, 2 days
2009	Teaching English in a non-English speaking environment Hochschuldidaktik, 1.5 days

3. TEACHING EVALUATIONS (MAIN COURSES)

Introduction to Biomaterials (RIT, BIME-370) (2020)

Rochester Institute of Technology											RIT			
Spring 2019, BIME 370 Intro Biomaterials Science Section 1 Instructor: Wuertz-Kozak, Karin (Primary)														
There were: 64 possible respondents.														
	Question Text	N	Top Two	Avg	BIME Avg	Col Avg	Uni Avg	No	Yes					
1	Regularly attended class	61	100%	1	0.98	0.98	0.97	0%	100%					
										Str Disagree	Disagree	Neutral	Agree	Str Agree
	KGCOE - Learning	60	90%	4.28	4.01	4.12	4.12	0%	0%	10%	52%	38%		
	Material presented in organized manner (Wuertz-Kozak)	61	89%	4.23	4.02	4.08	4.16	0%	2%	10%	52%	36%		
	Effective teacher (Wuertz-Kozak)	61	85%	4.13	4.05	4.09	4.19	0%	3%	11%	54%	31%		
	Positive learning environment (Wuertz-Kozak)	61	84%	4.2	4.21	4.19	4.29	0%	2%	15%	46%	38%		

Practical Methods in Biofabrication (ETHZ, 376-1624-00L) (2019)

Dozent/in A: Marcy Zenobi-Wong, Dozent/in B: Simone Schürle, Dozent/in C: Karin Würtz-Kozak; Practical Methods in Biofabrication

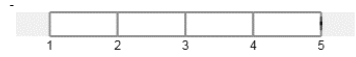


Prof. Dr. Marcy Zenobi-Wong

Practical Methods in Biofabrication (376-1624-00L-FS19), FS19
Gesamtbericht, Erfasste Fragebögen = 9

- Globalwerte

Gesamtzufriedenheit und Kommentare



mw=5,0
s=0,0

Practical Methods in Tissue Engineering (ETHZ, 376-1622-00L) (2015-2018)

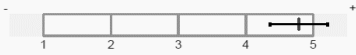


Prof. Dr. Karin Würtz-Kozak

Practical Methods in Tissue Engineering (376-1622-00L-HS18) (376-1622-00L-HS18), HS18
Gesamtbericht, Erfasste Fragebögen = 14

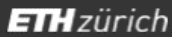
- Globalwerte

Gesamtzufriedenheit und Kommentare



mw=4,8
s=0,4

Dozent/in A: Karin Würtz-Kozak, Dozent/in B: Marcy Zenobi-Wong; Practical Methods in Tissue Engineering

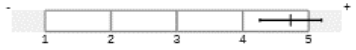


Prof. Dr. Karin Würtz-Kozak

Practical Methods in Tissue Engineering (376-1622-00L-FS17) (376-1622-00L-FS17), FS17
Gesamtbericht, Erfasste Fragebögen = 11

- Globalwerte

Gesamtzufriedenheit



mw=4,7
s=0,5

Dozent/in A: Karin Würtz-Kozak, Dozent/in B: Marcy Zenobi-Wong; Practical Methods in Tissue Engineering

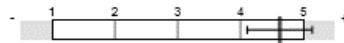
Prof. Dr. Karin Würtz-Kozak

Practical Methods in Tissue Engineering (376-1622-00L-HS16), HS16
Erfasste Fragebögen = 8



Globalwerte

7. Gesamtzufriedenheit



mw=4,6
s=0,5

Dr. Karin Würtz-Kozak, Practical Methods in Tissue Engineering

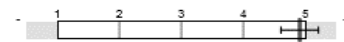
Dr. Karin Würtz-Kozak

Practical Methods in Tissue Engineering (376-1622-00L-FS15), FS15
Erfasste Fragebögen = 11



Globalwerte

Gesamtzufriedenheit



mw=4,9
s=0,3

Mechanobiology (376-1392-00L) (ETHZ, 2015-2019)

3. Die Dozentin / der Dozent B... Prof. Dr. Karin Würtz-Kozak



Dozent/in A: Aldo Ferrari, Dozent/in B: Karin Würtz-Kozak, Dozent/in C: Marcy Zenobi-Wong
 Mechanobiology: Implications for Development, Regeneration and Tissue Engineering (376-1392-00L-FS17)

9. Gesamtzufriedenheit

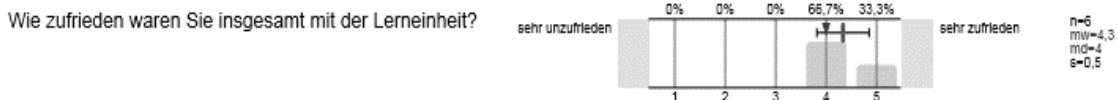


3. Die Dozentin / der Dozent B... Prof. Dr. Karin Würtz-Kozak

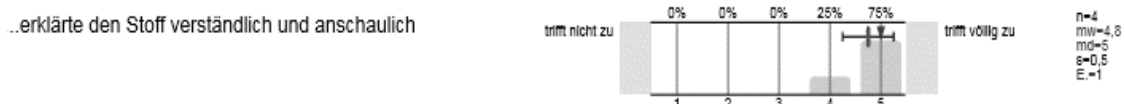


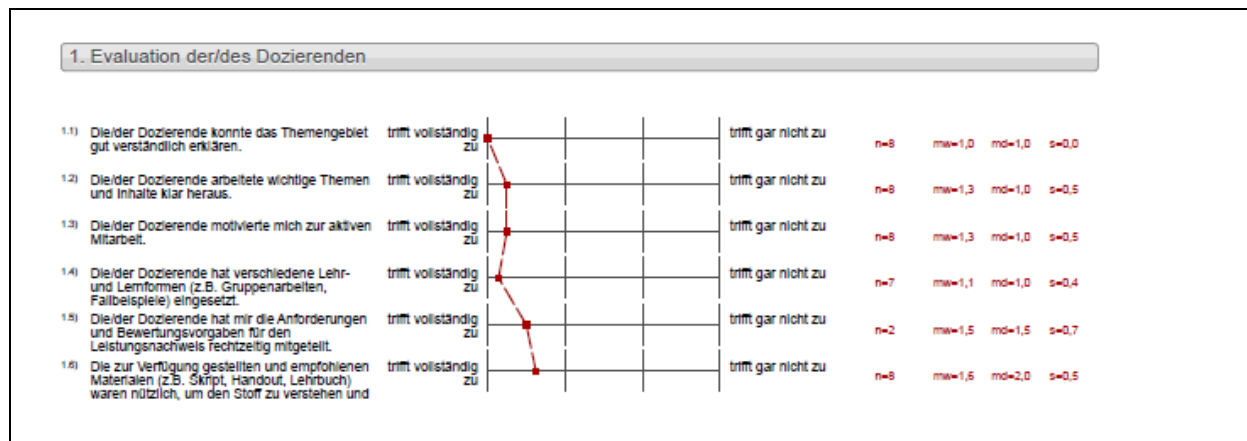
Dozent/in A: Aldo Ferrari, Dozent/in B: Karin Würtz-Kozak, Dozent/in C: Marcy Zenobi-Wong; Mechanobiology: Implications for Development, Regeneration and Tissue

Gesamtzufriedenheit



Die Dozentin / der Dozent B... Dr. Karin Würtz-Kozak





4. SUPERVISION

Supervision Training

2019	Symposium on Doctoral Supervision ETH Zurich, 2 days
2018	Supervising Doctoral Students ETH Leadership 4to7, 3 hours
2015	Supervising students – dealing with roles and relationships Center for University Teaching and Learning, 6 hours
2013 - 2015	MBA in Leadership and Sustainability University of Cumbria

Supervised Postdoctoral Fellows

Since 2020	A. De Pieri, PhD <i>Electrospinning for tissue regeneration</i>
2017 - 2019	M. Randall, PhD <i>Novel anti-aging cosmetic products based on extracts of microalgae</i> Now Associate Clinical Biomarker Leader at Galapagos
2017 - 2019	O. Krupkova, PhD <i>Inflammation Modulation in the intervertebral disc</i> Now Senior Scientist at University of Basel
2017-2018	T. Kameda, MD/PhD <i>The role of Transient Receptor Potential Channels in IVD Inflammation</i> Now Medical Doctor at Fukushima Medical University
2017	J. Nadi, MD <i>The role of Propionibacterium acnes infection in intervertebral disc inflammation</i> Now Medical Resident at University Hospital of Zurich
2016	E. Touli, MD

Inflammaging in cervical and lumbar degenerated intervertebral discs: analysis of proinflammatory cytokine and TRP channel expression

Now Medical Resident at EOC

- 2015-2016 J. Handa, MD, PhD
TRPC1 and TRPC6 in simulated microgravity and senescence of intervertebral disc cells
Now Spine Surgeon at Fukushima Medical University
- 2014-2015 M. Hlavna, PhD
Development of an inflammatory nucleus pulposus tissue culture model
Current position unknown
- 2014 S. Crocetti, PhD
TRP expression and function in myoblasts
Now Regulatory Affairs Officer at El.En SpA
- 2013-2014 H. Kobayashi, MD/PhD
Expression and regulation of toll-like receptors (TLRs) in human IVD cells
Now Spine Surgeon at Fukushima Medical University
- 2012-2013 M. Hakozi, MD/PhD
Expression and regulation of toll-like receptors (TLRs) in human IVD cells
Now Associate Professor at Fukushima Medical University

Supervised Med. Vet. Fellows

- Since 2018 Manuel Schmidli, VMD
Fibronectin Fragments in Canine Disc Disease: Induction of inflammatory responses in IVD cells and M1 macrophage polarization
Now Veterinary Doctor at Animal Hospital Bern
- 2017 - 2019 Andrea Faure Beaulieu, VMD candidate
Biological mechanisms of canine meniscal injury and degeneration
Now Veterinary Doctor at Animal Hospital Zurich
- 2016 M. Monchaux, VMD
Inflammatory Processes Associated With Canine Intervertebral Disc Herniation
Now Veterinary Surgeon at British Veterinary Hospital Dubai
- 2015-2016 T. Bitterli, VMD
Identification of inflammatory and pain markers in degenerative spinal disease
Now Medical Fellow at Vetsuisse Faculty Zurich

Supervised Doctoral Students

- Since 2019 P. Cazzanelli, ETH Zurich
Functional role of TLR-associated microRNAs in inter-vertebral disc pathophysiology
Co-supervision not yet determined
- Since 2016 E. Cambria, ETH Zurich
Mechanosensing in the intervertebral disc: Transient Receptor Potential Channels

Co-supervised by: Prof. Dr. Ferguson, Prof. Dr. Gantenbein

- Since 2016 A. Sadowska, ETH Zurich
TRP Channel expression patterns in the intervertebral disc and their role in osmosensing
Co-supervised by: Prof. Dr. Ferguson, PD Dr. Oliver Hausmann
- Since 2014 O. Björgvinsdottir, ETH Zurich
Electrospun membranes with anti-inflammatory properties for a biomimetic blood propulsion system
Co-supervised by: Prof. Dr. Ferguson, Prof. Dr. Mazza
- 2012 – 2016 O. Krupkova, ETH Zurich
Activity and controlled delivery of epigallocatechin 3-gallate in the treatment of degenerative disc disease
Co-supervised by: Prof. Dr. Ferguson, Prof. Dr. Gantenbein
Now Postdoctoral Fellow at ETH Zurich
- 2009 – 2013 L. Quero, University of Zurich
Discogenic Back Pain – The Induction and Prevention of a Proinflammatory Cascade in Intervertebral Disc Cells in vitro
Co-supervised by: Prof. Dr. Hottiger, Prof. Dr. Wenger, Prof. Dr. Boos
Now Senior Scientist at University of Basel

Co-Supervised Doctoral Students

- Since 2020 Srikanthan Ramesh, RIT
Modifying the topography of polymeric substrates by inkjet printing nanoparticle inks.
- Since 2019 Adeel Ahmed, RIT
Fabrication of Interfaces Between Heterogenous Extracellular Matrix Constructs for Studying Cell Migration
- Since 2019 Zahra Allahyari, RIT
Investigation of cell-substrate interaction on and through porous membranes
- Since 2018 Jean Basile Schoeller, EMPA
Electrospinning for wound applications
- 2012-2017 Yabin Wu, ETH Zurich
Joint lubrication: the influence of cartilage surface topology and synovial fluid viscosity
Now Project Manager at AO Research Institute
- 2010-2017 Jochen Walser, ETH Zurich
Cartilage tissue engineering for otorhinolaryngology (ORL) applications
Now Product Development Engineer at DePuy Synthes
- 2012-2015 Marco Casarosa, University of Florence / ETH Zurich
Tissue regeneration induced by Pulsed ElectroMagnetic Fields
Now Knowledge Transfer Manager at Presso Scuola Superiore Sant'Anna
- 2004-2008 Lucy Poveda, University of Zurich
Pathophysiological Pro-Inflammatory and Pain-Inducing Mechanisms in Degenerative Intervertebral Discs

Supervised MSc Dissertations

2019

B. Altinay, M.S. Health Sciences and Technology ETH Zurich
How do IVD cells sense and respond to osmotic changes?

M. Pühringer-Sturmayr, MSc Tissue Engineering and Regenerative
Medicine Fachhochschule Technikum Wien
Electrospun organotypic 3D skin model

L. Calderari, MSc Health Sciences and Technology ETH Zurich
(external thesis)
3D Modelling of Crystal Nephropathies

C. Wrapp, M.S. Biomedical Sciences
*Secretome characterization of human mesenchymal stem cells stimulated with
intervertebral disc conditioned medium – a proteomic based approach*

S. Heusser, M.S. Biomedical Engineering FH Wien
TRPV4 in dynamic compression of bovine nucleus pulposus cells

2018

M. Boos, M.S. Health Sciences and Technology ETH Zurich
*Erythrocyte-based nanotechnology for personalized delivery of naturally
derived anti-inflammatory drugs*

G. Makris, M.S. Biomedical Engineering ETH Zurich
*Effects of culture conditions on the TRP channels expression in cells seeded
in a 3D system*

I. Krizanovic-Grgic, M.S. Health Sciences and Technology ETH Zurich
*Comparison of clinical characteristics and cumulative radiation exposure in
atrial fibrillation patients undergoing first-time or redo catheter ablation
procedure using radiofrequency or cyo-energy*

M. Tschopp, M.S. Health Sciences and Technology ETH Zurich
(external thesis)
*Ex vivo biomechanical evaluation of different injury models and FibGen repair
on bovine motion segments*

M. Nussbaum, M.S. Health Sciences and Technology ETH Zurich
Modulation of inflammatory responses in vascular endothelium

S. Wandel, M.S. Health Sciences and Technology ETH Zurich
Role of MAPK and NF- κ B in IVD cell responses to mechanical strain

Lorenzo Colombo, M.S. Health Sciences and Technology ETH Zurich
(external thesis)
*The Role of Epstein Barr virus-induced APOBEC3 enzymes in Burkitt
lymphoma*

Manuel Weber, M.S. Health Sciences and Technology ETH Zurich
IVD-on-a-chip

Pablo Marty, M.S. Health Sciences and Technology ETH Zurich

Bilayered electrospun 3D skin models

2017

S. Brunner, M.S. Health Sciences and Technology ETH Zurich
The expression of TRP channels in dynamic compression of IVD cells

M. Löpfe, M.S. Biology ETH Zurich
Anti-inflammatory microparticles for the treatment of DDD

N. Demarmels, M.S. Health Sciences and Technology ETH Zurich
(external thesis)
Magnetic Blood Separation

S. dela Rambelje, M.S. Biomedical Engineering ETH Zurich
Novel wound dressings to improve diabetic ulcer healing: Investigating the effect of resveratrol on fibroblast functionality

M. Santschi, M.S. Biomedical Engineering ETH Zurich
Electrospun membranes for the treatment of diabetic ulcers
Now Doctoral Candidate at ETH Zurich

J. Zvick, M.S. Health Sciences and Technology ETH Zurich
The role of TRP channels in inflammation of intervertebral disc
Now Doctoral Candidate at ETH Zurich

2016

K. Zafeiropoulou, M.S. Biomedical Engineering Tech. Universiteit Delft
Controlled delivery of epigallocatechin 3-gallate for the treatment of degenerative disc disease

S. Das, M.S. Biomedical Engineering ETH Zurich
A Structural, Mechanical and Biological Map of Human Humeral Heads with Rotator Cuff Arthropathy
Now Doctoral Candidate at University of Oxford

P. Moor, M.S. Health Sciences and Technology ETH Zurich
Composite Annulus Fibrosus Repair Membranes
Now Research Assistant at Uniklinik Balgrist

2015

S. Chablox, M.S. Health Sciences and Technology ETH Zurich
Investigating the anti-aging effects of resveratrol on IVD cells in vitro
Now Nutrition and Communication Manager at Coca Cola Company

S. Zollinger, M.S. Biomedical Engineering ETH Zurich
TRP channels as sensors of compressive stress in intervertebral disc cells

2014

O. Björgvinsdottir, M.S. Biomedical Engineering Reykjavik University
Investigating the effects of pulsed electromagnetic fields (PEMFs) on bovine nucleus pulposus cells
Now Doctoral Candidate at ETH Zurich

A. Scheuren, M.S. Biomedical Engineering ETH Zurich
Ex vivo biological evaluation of trabecular bone response to injectable ceramic-based cements under mechanical loading
Now Doctoral Candidate at ETH Zurich

2012

A. Harrer, M.S. Life Science ZHAW
Neue Therapeutika für Wundheilung

Supervised BSc Dissertations

2017	M. Rüegg, B.S. Mechanical Engineering ETH Zurich <i>Absorbent nanofibrous membranes for the treatment of diabetic ulcers</i>
2016	A. Schneider, B.S. Mechanical Engineering ETH Zurich <i>Feasibility of using gelatin coatings for drug release in nanofibrous membranes</i>
2015	M. Franckfort, B.S. Biomedical Engineering TU Eindhoven The role of TRP channels in intervertebral disc osmosensing
2014	E. Gössinger, B.S. Mechanical Engineering ETH Zurich <i>Characterisation of Non-adhesive Electrospun Membranes for AF Repair</i>
2010	E. Stähli, B.S. Life Science ZHAW <i>Entwicklung eines Bandscheiben-Zellkultursystems zur Testung von Medikamenten</i>

Supervised Interns (M.S., B.S.)

B. Altinay, C. Aubry, A. Beaulieu, S. Bergamin, A. Birsén, F. Bollinger, M. Boos, S. Brunner, S. Das, A. Duss, L. Furer, E. Gleissner, D. Greenfeld, I. Grgic, S. Heusser, J. Hu, R. Knell, R. Knecht, D. Kunz, M. Löpfle, O. Marti, R. Merluzzi, D. Michel, A. Müller, C. Musumeci, M. Nurdzane, T.T. Nguyen, M. Nussbaum, N. Piazza, J. Pizorn, J. Schadow, A. Scheuren, M. Schmidli, A. Schneider, A. Sourlis, J. Tahmaseb, L. Thijsen, I. Tripa, M. Tschopp, E. van Haften, A. Vogt, M. Vuille, M. Vuk, S. Wandel, K. Zafeiropoulou

Membership on Doctoral Qualifying Exams

2019	Alsudais Munther, RIT
2020	Petra Cazzanelli, RIT
2020	Louis Widom, RIT

Membership on Doctoral Defense Panels

Ongoing	S. Ramesh	RIT (Committee Member)
Ongoing	A. Ahmed	RIT (Committee Member)
Ongoing	Z. Allahyari	RIT (Committee Member)
Ongoing	X. Zhang	University of Bern, Switzerland (Co-Examiner)
Ongoing	D. Pavlicek	University of Bern, Switzerland (Co-Examiner)
Ongoing	J. Schoeller	EMPA, Switzerland

		(Examiner)
2019	L. Braun	ETH Zurich, Switzerland (Chairmen)
2019	M. Wälti	ETH Zurich, Switzerland (Chairmen)
2019	O. Evrova	ETH Zurich, Switzerland (Chairmen)
2018	L. Weidenbacher	ETH Zurich, Switzerland (Chairmen)
2017	S. Arnoldini	ETH Zurich, Switzerland (Chairmen)
2017	Y. Wu	ETH Zurich, Switzerland (Examiner)
2017	E. Öztürk	ETH Zurich, Switzerland (Chairmen)
2016	O. Krupkova	ETH Zurich, Switzerland (Examiner)
2016	I. Arkesteijn	Technical University of Eindhoven, Netherlands (Co-Examiner)
2015	C.E. Ruiz Wills	Polytechnic University of Catalonia, Spain (Co-Examiner)
2015	L. Tsz Yan	University of Hong Kong, Hong Kong (Co-Examiner)