

Palni Kundra, Dr. sc.  
Ringstrasse 15  
CH-8107 Buchs (ZH)  
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Phone: +41779935899

Prof. Dr. med. Johannes Häberle  
Head of Metabolic Laboratory  
University Children's Hospital Zurich

31 October 2024

Dear Prof. Häberle,

I am writing to express my strong interest in the Postdoctoral Researcher position focusing on rare Urea Cycle Disorders (UCDs) in your laboratory. With my PhD in gut microbial biotechnology from ETH Zurich and extensive experience in metabolic research, I am particularly excited about the opportunity to contribute to advancing our understanding of UCD pathology and developing therapeutic strategies.

During my doctoral research at ETH Zurich, I investigated the modulatory potential of dietary and gut microbially produced vitamins B9 and B12 on the adult human gut microbiota and its metabolic activity. I believe these skills would transfer directly to studying metabolic disorders and analyzing clinical and biological data from UCD patients. My key technical competencies include:

- Development of complex experimental designs to understand the role of vitamins on the growth and metabolism of human gut microbes
- Development of advanced analytical methods including liquid chromatography and mass spectrometry to detect and quantify novel vitamin B9 and B12 forms produced by human gut microbes
- Extensive data analysis and interpretation including metagenomic analysis and bioinformatics expertise

My track record of five peer-reviewed publications demonstrates my contributions towards extensive knowledge in protocol development and experimental design, as well as my ability to analyze complex data and communicate findings effectively to diverse audiences. Moreover, throughout my career, I have successfully collaborated with international research teams and mentored students, developing strong communication and leadership skills.

I am motivated in this position because of its unique combination of basic research and clinical applications, offering the meaningful opportunity to improve patients' lives. The position aligns well with my career aspirations of applying multidisciplinary expertise to advance scientific discovery (especially rare disorder) through development, transforming research insights into practical pharmaceutical solutions that benefit patients. The prospect of combining postdoctoral research work with clinical transition is especially motivating to me. I am enthusiastic about working with clinicians, scientists, and patient organizations to advance our understanding of UCDs. While I am new to clinical trials, I have proactively completed training in ICH E6(R2) interpretation and application through the MRCT Center of Brigham and Women's Hospital and Harvard, demonstrating my commitment to understanding clinical research regulations.

I am confident that my strong background in biochemical and analytical methods, combined with my proven ability to lead complex research projects and collaborate effectively, makes me an ideal candidate for this position.

Thank you for considering my application. I look forward to discussing how my skills and experience can contribute to your research program.

Sincerely,

A handwritten signature in black ink, appearing to read 'Palni Kundra', with a stylized flourish at the end.

Palni Kundra

# PALNI KUNDRA

Biotechnology, Food Science, Microbiology, Nutrition, Vitamins, Metabolomics

## PERSONAL STATEMENT

As a Ph.D. graduate from ETH Zurich, I bring expertise in microbial metabolism and advanced analytical techniques. I am skilled in developing and optimizing methods for metabolite quantification using UHPLC-UV/MS in complex biological samples. I have extensive experience in analyzing metabolic pathways and interpreting diverse datasets, including metagenomic data. Throughout my career, I have successfully led research projects, mentored junior scientists, and collaborated effectively in multidisciplinary environments. I am eager to apply my analytical expertise and interdisciplinary background to advance research in metabolic disorders, particularly focused on understanding complex metabolic pathways and their clinical implications.

## KEY COMPETENCIES

- Possess in-depth knowledge across various scientific disciplines, including food science, microbiology, nutrition, gastroenterology, probiotics, biotechnology and biology.
- Proficient in translating complex scientific concepts into clear, engaging content, as well as translating scientific findings into actionable next steps.
- Proficient in designing, implementing, and executing research projects, encompassing laboratory techniques, statistics and bioinformatics.
- Proven ability to collaborate effectively with internal and external teams.

## EDUCATION

- |                   |  |                       |
|-------------------|--|-----------------------|
| 2018<br> <br>2023 | ● <b>ETH Zurich</b><br>Doctorate (Ph.D., Dr. sc.)<br><b>Supervisor:</b> Prof. Dr. Christophe Lacroix   | 📍 Zurich, Switzerland |
| 2016<br> <br>2018 | ● <b>McGill University</b><br>Masters of Science (M.Sc.)<br><b>Supervisor:</b> Prof. Jennifer Ronholm<br><b>CGPA:</b> 3.87/ 4  | 📍 Montréal, Canada    |
| 2011<br> <br>2015 | ● <b>Guru Nanak Dev University</b><br>Bachelor of Food Science and Technology<br><b>Advisor:</b> Prof. Bhartendu Singla<br><b>CGPA:</b> 8.7/ 10 ( <i>Gold medalist</i> ) | 📍 Amritsar, India     |

## WORK AND RESEARCH EXPERIENCE

- |                           |  |                       |
|---------------------------|--|-----------------------|
| Sep 2018<br> <br>Jun 2023 | ● <b>Scientific Assistant</b><br>ETH Zurich<br><b>Supervisor:</b> Prof. Dr. Christophe Lacroix | 📍 Zurich, Switzerland |
|---------------------------|--|-----------------------|
- Completed a multi-year research project investigating the modulatory potential of dietary and gut-microbially produced vitamin B9 and B12 on the complex gut microbiota, as well as on single next generation probiotic gut microbes.
  - Led the planning and execution of laboratory experiments, developed experimental and analytical methods (UHPLC-UV/MS), and analyzed metagenomic and other data types.
  - Completed project deliverables by preparing research findings for publication in scientific journals.
  - Presented research findings at scientific conferences, effectively communicating complex scientific concepts to diverse audiences.
  - Mentored Bachelor's and Master's students throughout their thesis projects, and facilitated a semester laboratory course, enhancing hands-on learning experiences.



## AWARDS AND MEDALS

**Gold medal** (Bachelor Studies)  
University topper 2015

**Poster presentation award**  
Second prize, Green tea ice cream  
Presented at science exhibition  
2015

## COMPUTATIONAL SKILLS

**Bioinformatics skills:**  
metagenomic data analysis  
**Programming:** R, Bash  
**Version control:** git  
**Project management:** GitHub

## LANGUAGES

English (Native, C1)  
German (Written A2, spoken B1)  
Hindi (Native)  
Punjabi (Native)

## CONTACT INFO

✉ [palnikundra@gmail.com](mailto:palnikundra@gmail.com)  
☎ +41 77 993 58 99

## MORE INFO

🆔 0000-0002-8999-6451  
in [palnikundra](#)  
📷 [Palni Kundra](#)  
℞ [Palni\\_Kundra](#)  
🌐 [pkundra](#)

- May-Sep  
2017

● **Graduate research project**  
 McGill University 📍 Montréal, Canada

  - **Supervisor:** Prof. Jennifer Ronholm
  - Conducted whole-genome SNP-based analysis to identify changes under laboratory conditions in major foodborne pathogens responsible for global outbreaks.
  - Provided support for preparing the manuscript for publication.
- Jan-Feb  
2015

● **Student research assistant**  
 Guru Nanak Dev University 📍 Amritsar, India

  - **Supervisor:** Prof. Pankaj Gupta
  - Developed an innovative food product - Green tea ice cream.
  - Performed sensory and organoleptic evaluation.
  - Presented the product at scientific conference.
- Jul 2014  
|  
Mar 2015

● **Student research assistant**  
 Guru Nanak Dev University 📍 Amritsar, India

  - **Supervisor:** Prof. Bhartendu Singla
  - Developed various innovative soy-based food products to enhance gluten-free product.
- May-Jun  
2013

● **Research internship**  
 Indian Council of Agricultural Research 📍 Ludhiana, India

  - **Supervisor:** Dr. Pranita Jaiswal
  - Applied a non-destructive quality control approach to develop spectrophotometric method for the detection of Soy-milk adulteration in cow milk.
  - Performed spectrophotometer analysis.
- Jun 2013  
&  
Jul 2014

● **Industrial internship**  
 Markfed Canneries 📍 Jalandhar, India

  - Performed microbiological testing and applied quality control assurance techniques.
- Jun-Jul  
2013

● **Industrial internship**  
 Verka Milk plant 📍 Jalandhar, India

  - Performed microbiological testing and applied quality control assurance techniques.

## SCIENTIFIC PUBLICATIONS

### ● Peer-reviewed Publications

**Palni Kundra**, Annelies Geirnaert, Benoit Pugin, Serafina Plüss, Susanna Kariluoto, Christophe Lacroix, Anna Greppi. Microbially-produced folate forms support the growth of *Roseburia intestinalis* but not its competitive fitness in fecal batch fermentations. **2024**. *BMC microbiology*. doi: [10.1186/s12866-024-03528-6](https://doi.org/10.1186/s12866-024-03528-6)

**Palni Kundra**, Anna Greppi, Monica Duppenhaler, Serafina Plüss, Benoit Pugin, Christophe Lacroix, Annelies Geirnaert. Vitamin B12 analogues from gut microbes and diet differentially impact commensal propionate producers of the human gut. **2024**. *Frontiers in Nutrition*. doi: [10.3389/fnut.2024.1360199](https://doi.org/10.3389/fnut.2024.1360199)

**Palni Kundra**, Annelies Geirnaert, Benoit Pugin, Paola Morales Martinez, Christophe Lacroix, Anna Greppi. Healthy adult gut microbiota sustains its own vitamin B12 requirement in an in vitro batch fermentation model. **2022**. *Frontiers in Nutrition*. doi: [10.3389/fnut.2022.1070155](https://doi.org/10.3389/fnut.2022.1070155)

**Palni Kundra**, Carole Rachmühl, Christophe Lacroix, Annelies Geirnaert. Role of dietary micronutrients on gut microbial dysbiosis and modulation in inflammatory bowel disease. **2021**. *Molecular Nutrition & Food Research*. doi: [10.1002/mnfr.201901271](https://doi.org/10.1002/mnfr.201901271)

Nicholas Petronella, **Palni Kundra**, Olivia Auclair, Karine Hébert, Mary Rao, Kyle Kingsley, Katrien De Bruyne, Swapna Banerjee, Alexander Gill, Franco Pagotto, Sandeep Tamber, Jennifer Ronholm. Changes detected in the genome sequences of *Escherichia coli*, *Listeria monocytogenes*, *Vibrio parahaemolyticus*, and *Salmonella enterica* after serial subculturing. **2019**. *Canadian Journal of Microbiology*. doi: [10.1139/cjm-2019-0235](https://doi.org/10.1139/cjm-2019-0235)



## THESES

Jun 2023



### Doctor of Sciences

**Palni Kundra**, 2023. Dr. sc. Thesis. The effect of exogenous and endogenous vitamin B9 and B12 on microbial growth and metabolism in the human gut. : [10.3929/ethz-b-000641198](https://doi.org/10.3929/ethz-b-000641198)

Jan 2018



### Master of Science

**Palni Kundra**, 2018. M.Sc. Research project. Single Nucleotide Polymorphisms in major food-borne pathogens.



## MENTORING



### Master projects at ETH Zurich

**Monica Duppenhaler** Vitamin B9 and B12 driven trophic interactions in the human gut. *Master in Food Science*. Jul 2021 - Jan 2022 (Thesis)

**Janik Mutter** Vitamin B9 production and cross feeding among human gut microbial strains. *Master in Biology*. Mar 2021 - Jul 2021 (Research project)



### Bachelor thesis projects at ETH Zurich

**Sabina Galli** B-vitamin bio-factory in the gut: In-vitro vitamin B9 production and utilization by human gut microbes. *Bachelor in Food Science*. Jul 2022 - Oct 2022

**Sara De Crescenzo** In-vitro Vitamin B12 Production by Human Gut Bacteria. *Bachelor in Food Science*. Jul 2021 - Oct 2021

**Giuliano Menegon** B-vitamin sharing: In-silico and in-vitro study to determine B9 and B12 cross-feeding between human gut microbial strains. *Bachelor in Food Science*. Jun 2020 - Nov 2020

**Lucie Kuhn** Give them vitamins: Impact of B9 and B12 on the acetate and butyrate production on human gut microbes. *Bachelor in Food Science*. Nov 2019 - Feb 2020

**Blandine Genet** Give them vitamins: Impact of B9 and B12 on the butyrate and propionate production on human gut microbes. *Bachelor in Food Science*. Jun 2019 - Sep 2019



## TEACHING

2019  
-  
2022



### 752-5004-00L: Food Biotechnology Laboratory Course

ETH Zurich

Zurich, Switzerland

Main responsible for cheese practical (2019 & 2020) and sour dough bread practical (2021 & 2022).

Semester course



## ORAL AND POSTER PRESENTATIONS

Sep  
2021



### Human Gut Microbial Strains Produce Vitamin B12

6<sup>th</sup> International Vitamin Conference

Denmark

Oral & Poster

Jul  
2021



### In-Vitro Vitamin B12 Production by Human Gut Microbial Strains

ANAEROBE 2021: THE MICROBIOTA AND BEYOND

Online

Poster

Feb  
2015



### Development of soy-based product and their organoleptic evaluation

Advances in agricultural Science & biotechnology, *DAV College Jalandhar*

India

Poster

Jan  
2015



### "Green tea ice cream"

Science exhibition, *DAV College Jalandhar*

India

Poster



## WORKSHOPS/ COURSES (NOT ON TRANSCRIPTS)

- 2024

- **Interpretation and Application of ICH E6(R2) by Multi-Regional Clinical Trials (MRCT)**  
The MRCT Center of Brigham and Women's Hospital and Harvard 📍 (Online), Switzerland
- 2024

- **A practical introduction to bioinformatics and RNA-seq using Galaxy**  
Galaxy Training Network 📍 (Online), Switzerland  
Sequencing, quality control and reference based mapping, Differential gene expression, DESeq2, Bioinformatic and RNA-seq data analysis on Galaxy Platform.
- 2023

- **PMDA Summer School**  
Roche 📍 Basel, Switzerland  
Predictive modelling and data analytics summer school to solve problems in drug discovery and development.
- 2022

- **Project Management for research – for doctoral students**  
ETH Zurich 📍 Zurich, Switzerland  
Project risk management, project management.
- 2021

- **Scientific poster design**  
University of Zurich 📍 Zurich, Switzerland  
content structure, typography do's and don'ts, design principles, design grids, design tools, image editing, perception, color theory.
- 2021

- **Energy and stress management: How to perform in the storm**  
University of Zurich 📍 Zurich, Switzerland  
Energy management, understand obstacles and overcome them, achieve targeted change.
- 2021

- **Time and self management for PhD Candidates**  
ETH Zurich 📍 Zurich, Switzerland  
Assess habits, values, goals, energy, and time management techniques.
- 2021

- **Leadership skills for PhD Candidates**  
University of Zurich 📍 Zurich, Switzerland  
Management, leadership, needs analysis, behavior, destructive leadership, and case studies.
- 2020

- **Statistics for Experimental Research**  
ETH Zurich 📍 Zurich, Switzerland  
Experimental designs, statistical analyses using R, report analyses and results in a scientifically appropriate manner.
- 2018

- **Mass spectrometry-based metabolomics - from theory to practice**  
Functional Genomics Center of University and ETH Zurich 📍 Zurich, Switzerland  
Metabolomics overview, and data analysis and interpretation.
- 2017

- **Introduction to genomic analysis**  
Compute Canada & University of British Columbia 📍 (Online) Canada  
UNIX programming, alignment, Variant calling and annotation, data visualization, and RNA-Seq including statistical analysis.
- 2014

- **36<sup>th</sup> Post-harvest technology - short course**  
University of California, Davis 📍 Davis, USA  
Advanced Crops handling and harvesting systems.



Eidgenössische Technische Hochschule Zürich  
Swiss Federal Institute of Technology Zurich

Institute of Food, Nutrition and Health  
Department of Health Sciences and Technology

ETH Zurich  
**Prof. Dr. Christophe Lacroix**  
Head, Laboratory of Food Biotechnology  
ETH Zentrum LFV C 20  
Schmelzbergstrasse 7  
CH-8092 Zürich, Switzerland

Phone +41 44 632 48 67  
Fax +41 44-632 14 03  
christophe.lacroix@hest.ethz.ch  
www.fbt.ethz.ch

Zurich, 20 July 2023 LC

#### Letter of reference

Palni Kundra, born on November 30, 1991 and a citizen of Indien, was 100.00 % employed by ETH Zurich as doctoral student from September 1, 2018 until June 30, 2023. About 30,000 people from more than 120 countries study, carry out research and work at ETH Zurich.

Ms Palni Kundra's duties and responsibilities in this capacity primarily comprised:

- working on her own thesis in the specialist field of Food Biotechnology on the subject of modulation effects of B-vitamins on the human gut microbiota
- publishing her research results in the form of papers, conference papers, articles for books
- publishing her research results in the form of papers in recognised specialist journals
- presenting papers at academic conferences
- supervising students writing semester papers and/or Master theses
- guiding Bachelor students during exercise and practical sessions
- supervising Master students during practical work in the laboratory/institute/field

Palni Kundra possessed proven expertise and extensive experience in her area of responsibility. She successfully applied herself to new duties and used the acquired knowledge with good results. The effort she put into her work was in proportion to the achieved outcome, and she met the requirements. With her rational and precise approach to her work, she always delivered a good performance. Her good command of languages was of great value for the communication in her work environment.

Palni Kundra showed initiative and complete commitment. Under challenging conditions, she remained calm and assured, adapting to changing circumstances with ease. Perceptive in evaluating the scope and impact of her actions, she was careful when weighing up the related risks and opportunities. In the decision-making process she exercised autonomy blended with a great deal of expertise. When arranging the deployment of staff, she was good at doing so according to need and objective. It was important to her to align her outlook and her actions with the goals of Food Biotechnology.

## Letter of reference

Palni Kundra immediately conveyed key information to the relevant recipients, and chose the appropriate moment to involve management when the situation demanded it. In terms of verbal and writing skills, she displayed tremendous adroitness when tailoring her communications to her addressees. Moreover, she was adept at presenting her own ideas in a convincing manner. She took on board other opinions and constructive criticism; she listened to what was said and was tuned in to the needs of her conversational partners. She supported and encouraged collaboration within the team and was highly adept at reconciling differing views. Management, staff and students alike appreciated her greatly and held her in high esteem.

Palni Kundra left us on expiry of her fixed-term employment contract. We thank her for her contribution and wish her every success going forward.



Christophe Lacroix



Cynthia Kumin



# DIE EIDGENÖSSISCHE TECHNISCHE HOCHSCHULE ZÜRICH



verleiht

**Palni Kundra**

Master of Science, McGill University  
geboren am 30. November 1991

den Titel

**DOKTORIN DER WISSENSCHAFTEN**

aufgrund der Doktorarbeit

THE EFFECT OF EXOGENOUS AND ENDOGENOUS VITAMIN B9 AND B12  
ON MICROBIAL GROWTH AND METABOLISM IN THE HUMAN GUT

Leiter der Doktorarbeit: Prof. em. Dr. Christophe Lacroix

und der mündlichen Prüfung vom 21. Juni 2023

Zürich, 27. November 2023

Der Rektor

A handwritten signature in blue ink, reading 'Günther Dissertori'.

Prof. Dr. Günther Dissertori

Die Vorsteherin des Departements  
Gesundheitswissenschaften und Technologie

A handwritten signature in blue ink, reading 'Laura Nyström'.

Prof. Dr. Laura Nyström

**ETH**

Eidgenössische Technische Hochschule Zürich  
Swiss Federal Institute of Technology Zurich





McGILL UNIVERSITY  
MONTREAL

TO ALL TO WHOM THESE PRESENTS MAY COME, GREETING:  
WE, THE GOVERNORS, PRINCIPAL, AND FELLOWS OF MCGILL UNIVERSITY TESTIFY THAT

*Palni Kundra*

HAVING DILIGENTLY COMPLETED THE REQUIRED COURSE OF STUDY AND PERFORMED  
THE PRESCRIBED EXERCISES HAS BEEN ADMITTED TO THE DEGREE OF

MASTER OF SCIENCE

WITH ALL THE HONOURS, PRIVILEGES, AND PREROGATIVES PERTAINING TO THAT DEGREE, IN WITNESS  
WHEREOF WE HAVE AFFIXED OUR SIGNATURES AND HAVE CAUSED THE SEAL OF THE UNIVERSITY TO BE  
ATTACHED HERETO. GIVEN IN CONVOCATION THIS 6TH DAY OF JUNE IN THE YEAR 2018.

*Malbauteya*

DEAN

*Anna Walsh*

REGISTRAR



*Richard A. Dineen*

CHANCELLOR

*Suzanne Fecteau*

PRINCIPAL



# ਗੁਰੂ ਨਾਨਕ ਦੇਵ ਯੂਨੀਵਰਸਿਟੀ



ਰਜਿਸਟਰਡ ਨੰ : 2011.ਜੇ/ਏ.37

Regd. No. : 2011 J/A.37

ਬੈਚੁਲਰ ਆਫ ਫੂਡ ਸਾਇੰਸ ਐਂਡ ਟੈਕਨੋਲੋਜੀ (ਆਨਰਜ਼)

ਰੋਲ ਨੰ. ] 92015036408  
Roll No.

ਪ੍ਰਮਾਣਿਤ ਕੀਤਾ ਜਾਂਦਾ ਹੈ ਕਿ  
ਦਿਵਿਆ ਕੁੰਦਰਾ ਨੇ ਪਲਨੀ ਕੁੰਦਰਾ ਪੁੱਤਰ/ਪੁੱਤਰੀ ਸ੍ਰੀ ਡੀ.ਏ.ਵੀ.ਕਾਲਜ, ਜਲੰਧਰ ਵਿਚ ਹੋਈ ਲੋੜੀਂਦੀ ਪ੍ਰੀਖਿਆ ਪਹਿਲੀ (ਵਿਸ਼ੇਸ਼ਤਾ ਸੀਟ) 'ਤੇ ਨਿਸ਼ਚਿਤ ਕੋਰਸ ਦਾ ਅਧਿਐਨ ਕਰਨ ਉਪਰੰਤ ਅਪ੍ਰੈਲ, 2015 ਦੀ ਡਿਗਰੀ ਪ੍ਰਾਪਤ ਕੀਤੀ ਹੈ।  
ਬੈਚੁਲਰ ਆਫ ਫੂਡ ਸਾਇੰਸ ਐਂਡ ਟੈਕਨੋਲੋਜੀ (ਆਨਰਜ਼)

Guru Nanak Dev University

**BACHELOR OF FOOD SCIENCE & TECHNOLOGY (HONOURS)**  
This is to certify that **DIVYA KUNDRA** and of the **PALNI KUNDRA** son/daughter of Mr. **D. A. V. COLLEGE, JALANDHAR** has been admitted to the degree of **BACHELOR OF FOOD SCIENCE & TECHNOLOGY (HONOURS)** and been placed in **First** Division (with distinction).

and she has been pursuing the prescribed course of study and passed the requisite examination, held in **APRIL, 2015** at **KIRAN KISHORE KUNDRA** has been admitted to the degree of **BACHELOR OF FOOD SCIENCE & TECHNOLOGY (HONOURS)** and been placed in **First** Division (with distinction).

*Sum Shandip*  
ਪ੍ਰੋਫੈਸਰ ਇੰਚਾਰਜ (ਪ੍ਰੀਖਿਆਵਾਂ)  
Professor Incharge (Exams.)

*SS Dhillon*  
ਰਜਿਸਟਰਾਰ  
Registrar

*Abhishek*  
ਵਾਈਸ-ਚਾਂਸਲਰ  
Vice-Chancellor

ਅੰਮ੍ਰਿਤਸਰ  
Amritsar

June 17, 2015



## CONFIRMATION OF ATTENDANCE

**Palni Kundra**

successfully completed the course

### **'Mass spectrometry-based metabolomics – from theory to practice'**

#### **The participant:**

- Attended all introductory lectures, practical tutorials and lab sessions
- Got acquainted with several LC-MS technologies and applications
- Learned the principles and operations of MS platforms
- Learned how to carry out the entire process of mass spectrometry-based metabolomics, including data analysis and interpretation of the results.

#### **Content of the course:**

##### **Lectures**

- Introduction to metabolism and metabolomics
- Introduction to LC-MS technologies and different applications
- Introduction to MS data analysis in untargeted and targeted mode
- Introduction to sample preparation and experimental design

##### **Tutorials**

- Principles of quality control (QC)
- Technical QC of mass spectrometry results using specific software
- Data analysis and metabolite identification with hands-on exercises for untargeted mass spectrometry data
- Data analysis and quantification with hands-on exercises for targeted mass spectrometry data

##### **Practical lab sessions**

- Sample preparation workflow, including:
  - Sample extraction
  - Sample reconstitution
  - Sample acquisition
- Nano LC/MS setup and standard QC on Thermo Q-Exactive and QqQ Quantiva

Organizer: Serena Di Palma, Endre Laczko

Instructors: Serena Di Palma, Endre Laczko, Stefan Schauer, Sebastian Streb

Credit points: 2 ECTS

Dates: 5 November– 8 November 2018

Location: University of Zurich

Zürich, 13.11.2018

Dr. Serena Di Palma



**MULTI-REGIONAL  
CLINICAL TRIALS**

THE MRCT CENTER of  
BRIGHAM AND WOMEN'S HOSPITAL  
and HARVARD

**CERTIFICATE OF COMPLETION**

**Palni Kundra**

has completed Version 1.0 of

**Interpretation and Application of ICH E6(R2)**

Online Course of 10 Modules.

This course is an ICH Recognised Training Programme.

Cambridge, Massachusetts - September 23, 2024

*Barbara E. Bierer, MD*  
MRCT Center Faculty Director