



Forensic Imaging and Virtopsy ^{UZH}



Certificate of Advanced Studies CAS

Program – Module 2 - Virtopsy Advanced Course

February 6, 2020/subject to possible change

Wednesday, March 18, 2020 - Morning

| Time | | Topic | Instructor |
|---------------|------|--|--|
| 08:15 – 08:30 | | Registration | Course Administration |
| 08:30 – 08:45 | 1.75 | Introduction Advanced Course | Prof. Dr. med. Michael Thali Dr. med. Wolf Schweitzer |
| 08:45 – 08:55 | | Preparation for PMCT scan | Dipl. RT Dominic Gascho |
| 08:55 – 09:05 | | PMCT scan (Radiologists/blue) | Dipl. RT Dominic Gascho |
| | | PMMR scan (Pathologists/orange) | PD Dr. med. Thomas Ruder Dr. med. Wolf Schweitzer |
| 09:05 – 09:15 | | PMMR scan (Radiologists/blue) | PD Dr. med. Thomas Ruder Dr. med. Wolf Schweitzer |
| | | PMCT scan (Pathologists/orange) | Dipl. RT Dominic Gascho |
| 09:15 – 10:15 | | PMCT findings (Radiologists/blue) | PD Dr. med. Thomas Ruder PD Dr. med. Garyfalia Ampanozi |
| | | Biopsy / Surface scanning (Pathologists/orange) | PD Dr. phil. Lars Ebert Dipl. ing. Till Sieberth, PhD |
| 10:15 – 10:45 | | Break (30') | |
| 10:45 – 11:45 | 1 | Biopsy and surface scanning (Radiologists/blue) | PD Dr. phil. Lars Ebert Dipl. ing. Till Sieberth, PhD |
| | | PMCT findings (Pathologists/orange) | PD Dr. med. Thomas Ruder PD Dr. med. Garyfalia Ampanozi |
| 11:45 – 13:00 | | Lunch (75') | Served at Dozentenfoyer |



Wednesday, March 18, 2020 - Afternoon

| Time | | Topic | Instructor |
|---------------|------|--|--|
| 13:00 – 13:30 | 2 | Autopsy Room | FMB Team |
| 13:30 – 14:15 | | Cetacean Virtopsy | Dr. Brian Kot |
| 14:15 – 15:00 | | An Introduction to Forensic Veterinary Pathology | Dr. Alexander Stoll |
| 15:00 – 15:15 | | Break (15') | |
| 15:15 – 16:00 | 1.25 | Forensic 3D Printing | Prof. Summer Decker, PhD Dr. med. Wolf Schweitzer |
| 16:00 – 16:30 | | What *is* 3D data really? | Dr. med. Wolf Schweitzer |
| 16:30 – 16:40 | | Break (10') | |
| 16:40 – 17:10 | 1.5 | Scientific article – writing, getting it published | Alexander J. Smith |
| 17:10 – 17:30 | | Finite Element Analysis | Jonathan Ford, PhD |
| 17:30 – 17:40 | | Break (10') | |
| 17:40 – 18:20 | | Medical examiners in the USA | Prof. Summer Decker, PhD |

Total 7.5



Thursday, March 19, 2020

| Time | | Topic | Instructor |
|---------------|------|--|--|
| 08:30 – 09:00 | 1.75 | Clinical forensic neck MR | Dr. med. Jakob Heimer |
| 09:00 – 09:20 | | Lung ventilation | Dr. med. Sabine Franckenberg |
| 09:20 – 09:45 | | Vital reactions | Dr. med. Wolf Schweitzer |
| 09:45 – 10:45 | | Advanced visualization | PD Dr. phil. Lars Ebert |
| 10:45 – 11:00 | | Break (15') | |
| 11:00 – 11:30 | 1.5 | CT-artifacts | PD Dr. phil. Lars Ebert |
| | | Foreign objects | Dr. med. Wolf Schweitzer |
| 11:30 – 12:30 | | PMMR I | Dr. med. Carlo Tappero |
| 12:30 – 13:30 | | Sandwich Lunch (60') | Served at the Course Venue |
| 13:30 – 14:00 | 2 | PMMR II | Dr. med. Carlo Tappero |
| 14:00 – 14:30 | | Body packing | TBD |
| 14:30 – 15:10 | | PMCTA Introduction and Essentials | Dr. med. Wolf Schweitzer |
| 15:10 – 15:30 | | PMCTA Technique and imaging protocols | Dipl. RT Dominic Gascho |
| 15:30 – 15:45 | | Break (15') | |
| 15:45 – 16:30 | 1.5 | Pediatric/perinatal post mortem CT | Dr. med. Rosita Martinez Dr. med. Wolf Schweitzer |
| 16:30 – 17:15 | | Case review / Casebook | Dr. med. Carlo Tappero Dr. med. Wolf Schweitzer |
| 18:30 | | Dinner Further information you will receive on your first Course Day. | Restaurant "Zum Kropf" www.zumkropf.ch |

Total 6.75



Friday, March 20, 2020

| Time | | Topic | Instructor |
|---------------|----|---|---|
| 08:30 – 09:15 | 75 | Hands-on PMCTA | Dr. med. Carlo Tappero Dr. med. Wolf Schweitzer Dipl. RT Dominic Gascho FMB Team |
| 09:15 – 09:30 | | Break (15') | |
| 09:30 – 12:30 | 3 | Hands-on PMCTA | Dr. med. Carlo Tappero Dr. med. Wolf Schweitzer Dipl. RT Dominic Gascho FMB Team |
| 12:30 – 13:15 | | Sandwich lunch (45') | Served at the Course Venue |
| 13:15 – 13:30 | 3 | PMCT & PMCTA Putrefaction | Dr. med. Wolf Schweitzer |
| 13:30 – 14:00 | | PMMRA | Dr. med. Carlo Tappero |
| 14:00 – 14:45 | | Magnetic Resonance Spectroscopy (1H-MRS) in Forensic Medicine | Dr. sc. Niklaus Zölch |
| 14:45 – 15:10 | | Deep Learning in Virtopsy Statistical Shape Modelling | PD Dr. phil. Lars Ebert |
| 15:10 – 15:30 | | Assessment Module 2 Virtopsy Course | Dr. med. Wolf Schweitzer |
| 15:30 – 16:15 | | Forensic Holodeck | PD Dr. phil. Lars Ebert Dipl. ing. Till Sieberth, PhD |
| 16:15 | | End of course Part 1 & 2 Certificate of attendance | Dr. med. Wolf Schweitzer Prof. Dr. med. Michael Thali |

Total 6.75

All: 21.0