**ICEBAT 2024**

**The International Brain Wave**

**Friday 21st June 2024**

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| 12:00-12:20 | Registration  |  |
| 12:20-12.30 | Opening Address | Sarah Wratten, UKJohan Lambeck, NL |

***Plenary Session 1: Pool activity influences neuronal networks***  Chair: Sarah Wratten

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| 12:30-13:30 | Lifestyle & chronic pain: opportunities for aquatic therapy | Jo Nijs, Belgium |
| 13:30-14:30 | Water immersion for promoting sensorimotor neuroplasticity | Daisuke Sato, Japan |

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| 14:30-15:00 | Tea break and poster session: Series 1 |

***Plenary Session 2: Oral presentations 1 - 5***

Chair: Johan Lambeck

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| 15:00-15:12O1 | Considerations for aquatic high intensity interval training to improve exercise capacity in adults with rheumatic musculoskeletal diseases- the aquahigh randomised controlled trial | Heidi Bunæs-Næss et al, Norway |
| 15:12-15:24O2 | The effect of ai chi on executive functions, prefrontal activation, and autonomic nervous system in healthy elderly | Pei-Hsin Ku et al, Taiwan |
| 15:24-15:36O3 | Stroke toolkit for aquatic rehabilitation and recreation therapy (STARRT): the process of a participatory design | Andresa Marinho-Buzelli et al, Canada |
| 15:36-15:48O4 | Comparison of aquatic physical therapy protocols in the gait of children with cerebral palsy: randomized and blinded control trial | Caio Castro et al, Brazil |
| 15.48-16.00O5 | Effect of water- and land-based exercise on lung function in children with post covid-19 condition: a randomized controlled trial | Anna Ogonowska-Slodownik et al, Poland |
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| 16:00-16:30 | Tea break and poster session: Series 2 |

***Plenary Session 3: Research, measurements, and the transfer into practice*** Chair: CG Prashanth

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| 16:30-17:15 | Markerless analysis of underwater exercises using artificial intelligence | Jessy Lauer, Switzerland |
| 17:15-18:00 | Spotlight on people with low back pain and on falls prevention | Stelios Psycharakis, United Kingdom |

**Saturday 22nd June 2024**

***Plenary Session 4: Go to the future in clinical applications*** Chair: Caroline Bamatz

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| 09:15-10:00 | Aquatic therapy for Parkinson’s disease: international evidence-based guidelines  | Louise Carrol, Ireland |
| 10:00-10:45 | Beyond guidelines and biomechanics to empowering people with hip and knee osteoarthritis to move for optimal outcomes in aquatic therapy | Sophie Heywood, Australia |

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| 10:45-11:15 | Tea break and poster session: series 3 |

***Plenary Session 5: Oral presentations 6 - 10*** (11.15 - 12.15) Chair: Daisuke Sato

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| 11:15-11:27O6 | Development of an Aquatic Observation Instrument for Children with ASD: reliability and validity | Patty van ‘t Hooft et al, The Netherlands |
| 11:27-11:39O7 | Acute effect of moderate-intensity aquatic treadmill exercise on cognitive function and cerebral blood flow for healthy elderly: a randomized controlled trial | Billy So et al, Hong-Kong |
| 11:39-11:51O8 | The acute effect of an aqua-pilates fitness class using floating exercise mats on static balance parameters | Marianna Kotzamanidou et al, Greece |
| 11.51-12:03O9 | Importance of aquatic exercise in a community based musculoskeletal wellness solution | Ben Waller et al, United Kingdom |
| 12.03-12.15O10 | Effect of aquatic therapy on cardio-respiratory endurance and quality of life in adolescent and young adults cerebral palsy | Dipti Patil et al, India |

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| 12:15-13:15 | Lunch |

***Plenary Session 6: The continuum of change*** Chair: Alison Bonnyman

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| 13:15-13:45 | Energy usage and savings in a hydrotherapy pool | Ian Ogilvie, United Kingdom |
| 13:45-14:00 | Open Forum about the keynote |  |
| 14:00-14:30 | Clinical QiShui: a coordinative and myofascial aquatic therapy concept | Urs Gamper, Switzerland |
| 14:30-15.00 | From molecule and cell to behavioural change. Clinical applications of neurophysiology of immersion + aquatic exercise | Javier Güeita Spain |

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| 15:00-15:30 | Tea break and poster session: series 4 |

***Pool Session 1***  Chair: Eugenia Hernandez and Sarah Wratten

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| 15:30-16:10 | Beyond guidelines and biomechanics to empowering people with hip and knee osteoarthritis to move for optimal outcomes in aquatic therapy | Sophie Heywood, Australia |
| 16:10-16:50 | Clinical applications of neurophysiology | Javier Güeita, Spain |
| 16:50-17:30 | Aquatic gamification: move and think | Johan Lambeck, Netherlands |

**Sunday June 23rd 2024**

***Pool Session 2***

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| 09:00-09:45 | Aquatic Physiotherapy in clinical practice: individual neuro single case studies. | Jacqueline Pattman, UK |
| 09:45-10.30 | AquaQiShui | Felix Castellanos, Spain |

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| 10:30-11:30 | Tea break and long poster session: series 5 & 6 |

***Plenary Session 7: “The dose makes whether a thing is poison” (Paracelsus, 1493-1541)***Chair:Oliver Krouwel

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| 11:30-12.00 | Aquatic Physiotherapy in clinical practice: individual neuro single case studies – using film footage |  Jacqueline Pattman, UK |
| 12:00-12:30 | The future of aquatic therapy: closing words | Sarah Wratten UKJohan Lambeck NL |

 