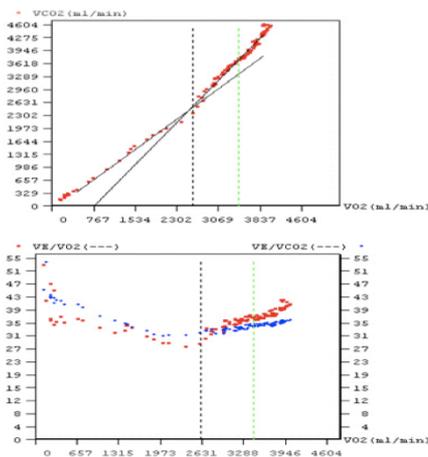




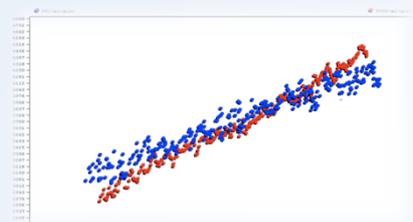
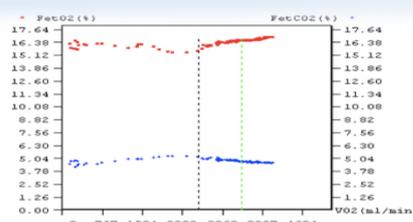
### MAIN RESEARCH TOPICS

- Dynamic response of oxidative metabolism and oxygen delivery in humans during exercise
- Training-induced physiological and biological adaptations in the elderly and in cardiovascular patients
- Physiological determinants of sport performances in young, adults and elderly subjects
- Physiological adaptations to real and artificial microgravity in humans



### MAIN EQUIPMENT

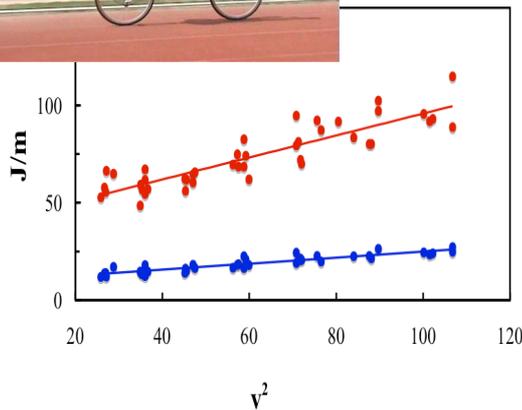
- Cycle-ergometer (2, LODE Excalibur Sport)
- Upper limb Ergometer (Monark, Cosmed)
- Portable metabolic unit (3, Cosmed K4 b2)
- Treadmill (H/P Cosmos Saturn 300/100)
- Treadmill (Runrace, Techno gym)
- Cardio impedance system for non-invasive recording of cardiac output (Physioflow Enduro)
- Inert gases rebreathing system for non invasive determination of cardiac output (Innocor Innovision)
- Metabolic carts (Quarkb2 Cosmed, Vmax Sensormedics, Quark PFT Cosmed with DLCO, CPET and canopy, Innocor Innovision)
- Non-invasive, photoplethysmographic arterial pressure monitoring system (2, Portapres, Finapres TNO)
- Bench Lactameter (ELK), portable lactameters





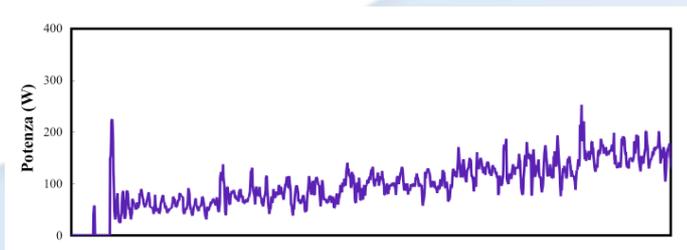
# University of Verona

## Faculty of Exercise and Sport Sciences



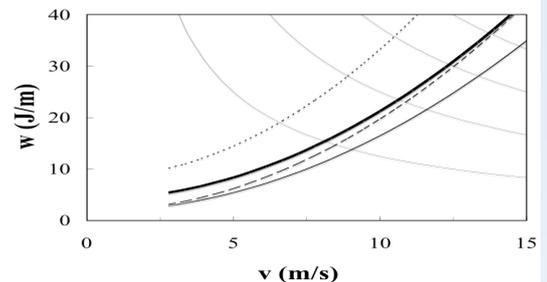
### MAIN ONGOING RESEARCH PROJECTS

- Effects of aerobic training and of priming exercise on the kinetics of oxygen uptake, delivery and utilization in the elderly
- Effects of priming exercise on the kinetics of oxygen uptake, delivery and utilization in heart failure patients
- Effects of microgravity exposure on the ventilatory sensitivity to carbon dioxide (in co-operation with the Department of Basic Neuroscience, University of Geneva, CH)
- Physiology of ultra marathon runners
- Kinetics of limb blood flow and oxygen delivery during exercise



### MAIN EQUIPMENT

- Portable cartridge emo-gas analyzer (I-STAT)
- ECG monitors (Cosmed)
- Heart rate monitors (Polar)
- Blood pressure monitor (SunTech)
- Oxygen and carbon dioxide analyzer (Servomex/Servomex, Heraeus) Heraeus)
- Dry gasometer
- Single leg dynamometer
- Echo Doppler (Siemens)



### STAFF

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