

Facoltà di Medicina e Chirurgia

Dipartimento di Scienze Mediche e Sanità Pubblica Corsi di Laurea Triennale in Scienze delle Attività Motorie e Sportive e Magistrale in Scienze delle Attività Motorie Preventive e Adattate

3rd UNICA SPORT SCIENCE INTERNATIONAL CONFERENCE

"Training and Genetic Profile: Maximizing Athletic Potential"





Final Programme















Final Programme

3rd UNICA SPORT SCIENCE INTERNATIONAL CONFERENCE Cagliari/Santa Margherita di Pula, Sardinia, Italy 19-21 June 2024

Organized by



Facoltà di Medicina e Chirurgia Dipartimento di Scienze Mediche e Sanità Pubblica Corsi di Laurea Triennale in Scienze delle Attività Motorie e Sportive e Magistrale in Scienze delle Attività Motorie Preventive e Adattate

Organization

CHAIR[S] of the SCIENTIFIC and ORGANIZING COMMITTEES

Filippo TOCCO and Myosotis MASSIDDA

Department of Medical Sciences and Public Health

University of Cagliari

[ITALY]

SCIENTIFIC COMMITTEE

Carla Maria CALO'
[ITALY]
Sebastiano BANNI
[ITALY]
Giovanna GHIANI
[ITALY]
Massimiliano PAU
[ITALY]
Mauro CARTA
[ITALY]

AWARDS Committee for the Oral Presentations

Malcolm COLLINS
[SOUTH AFRICA]
Pawel CIESZCZYK
[POLAND]
Carlo CASTAGNA
[ITALY]
Kinga HUMINSKA-LISOWSKA
[POLAND]
Georgina STEBBINGS
[UNITED KINDOM]
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[ITALY]

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Alison V. SEPTEMBER
[SOUTH AFRICA]
Naoki KIKUCHI
[JAPAN]
Valentina GINEVICIENE
[LITUANIA]
Carlo CASTAGNA
[ITALY]
Diego PRIMAVERA
[ITALY]

Invited Speakers - Wednesday, June 19th



Malcolm COLLINS
Deputy Director of Health
through Physical Activity,
Lifestyle and Sport Research
Centre, University of Cape Town
SOUTH AFRICA



Paweł CIESZCZYK
Rector
of Gdansk University of Physical
Education and Sport
Gdansk
POLAND



Ildus AHMETOV
Research Institute for
Sport and Exercise Science
Liverpool John Moores
University, Liverpool
UNITED KINDOM



Alison V. SEPTEMBER Health Through Physical Activity and Sport Research Centre, University of Cape Town SOUTH AFRICA



Naoki KIKUCHI Nippon Sport Science University (NSSU), Tokyo JAPAN



Valentina GINEVICIENE
Department of Human
and Medical Genetic,
Vilnus University
Vilnus
LITUANIA



Kinga HUMINSKA-LISOWSKA
Gdansk University
of Physical Education
and Sport,
Gdansk
POLAND



Georgina STEBBINGS
Manchester Metropolitan
Institute of Sport,
Manchester Metropolitan
University, Manchester
UNITED KINDOM

Programme - Wednesday, June 19th

Congress Venue: Aula Magna Boscolo, Cittadella Universitaria di Monserrato

9.00 am Registration opens

2.45 pm Registration closes

3.00 pm Conference welcome to organizer and Greetings of the Authorities

GENETICS SYMPOSIUM



Chair[s]:



Myosotis Massidda
Dept of Medical Sciences and Public
Health, University of Cagliari
ITALY

Carla Maria Calò
Dept of Life and Environmental Sciences,
University of Cagliari
ITALY

3.30 pm KEYNOTE LECTURE

Advances in the Genetics of Musculoskeletal Soft-Tissue Injuries. Malcolm COLLINS, [SOUTH AFRICA]

4.15 pm Novel approaches identifies key genetic loci in contributing to ACL rupture susceptibility.

Alison V. SEPTEMBER, [SOUTH AFRICA]

4.40 pm Are DCN gene variants associated with ACL rupture susceptibility? Pawel CIESZCZYK, [POLAND]

5.05 pm Genetics in strength and power phenotypes.

Naoki KIKUCHI, [JAPAN]

5.30 pm Coffee break

6.00 pm Using UK Biobank data in sports genomics research.

Ildus AHMETOV, [UNITED KINDOM]

6.25 pm Genetic profile of elite sprint and endurance athletes. Valentina GINEVICIENE, [LITUANIA]

6.50 pm Genetic profile of team sport athletes.

Georgina STEBBINGS, [UNITED KINDOM]

7.15 pm Genetic variants and personality traits in athletes. Kinga HUMINSKA-LISOWSKA, [POLAND]

7.40 pm Closing statement

Invited Speakers and Chair[s] - Thursday, June 20th

Invited Speakers



Carlo CASTAGNA
Department of Biomolecular
Sciences
University of Urbino Carlo Bo,
Urbino
ITALY



Sean Yan XU
Senior Lecturer
College of Sport, Health and
Engineering (CoSHE)
Victoria University, Melbourne
AUSTRALIA

Chair[s]:



Filippo TOCCO
Dept of Medical Sciences
and Public Health
University of Cagliari
ITALY



Myosotis MASSIDDA Dept of Medical Sciences and Public Health University of Cagliari ITALY



Sebastiano BANNI Dept of Biomedical Sciences University of Cagliari ITALY



Paweł CIESZCZYK Gdansk University of Physical Education and Sport, Gdansk POLAND



Malcolm COLLINS
Health through
Physical Activity,
Lifestyle and Sport
Research Centre
University of Cape
Town,
SOUTH AFRICA



Alberto CONCU AC Technology SRL Cagliari ITALY



Massimilano PAU
Dept of Mechanical,
Chemical and
Materials
Engineering
University of Cagliari
ITALY

Programme - Thursday, June 20th

Congress Venue: Cristalli Hall, Forte Village Resort

9.00 - 9.30 am Registration

9.30 - 9.45 am Conference welcome to organizer

9.45 - 10.30 am KEYNOTE LECTURE

Team-Sports for Health. Carlo CASTAGNA [ITALY] Chair: Filippo TOCCO [ITALY]

10.30-11.20 am PHYSIOLOGY & NUTRITION

Oral presentations

Chair: Sebastiano BANNI [ITALY]

11.20 – 12.00 am COFFEE BREAK

12.00-12.30 pm INVITED LECTURE

Genetic variations and environmental factors in shaping exercise

performance and human health. Sean Yan XU [AUSTRALIA]

Chair: Myosotis MASSIDDA [ITALY]

12.30-1.40 pm TRAINING & TESTING AND EXERCISE MEDICINE & HEALTH

Oral presentations

Chair[s]: Alberto CONCU [ITALY] Filippo TOCCO [ITALY]

1.45-3.15 pm LUNCH BREAK, Pineta Restaurant

3.15-4.25 pm GENETICS AND EPIGENETICS

Oral presentations

Chair[s]:Malcolm COLLINS [SOUTH AFRICA], Pawel CIESZCZYK [POLAND]

4.30 pm COFFEE BREAK

Poster Room 3: 5.00-6.30 pm - POSTER SESSION

6.40-7.30 pm BIOMECHANICS AND ACTIVE SPORT TOURISM

Oral presentations

Chair: Massimiliano PAU [ITALY]

7.30 pm CLOSING STATEMENT and AWARDS CEREMONY

Oral presentations - Thursday, June 20th

Congress Venue: Cristalli Hall, Forte Village Resort

10.30-11.20 am PHYSIOLOGY & NUTRITION

Chair: Sebastiano Banni [ITALY]

10.30 PADOVAN RICCARDO et al. [ITALY] [SIA]

SURFACE ELECTROMYOGRAPHY EXCITATION IN BARBELL VS. KETTLEBELL OVERHEAD PRESS PRIME MOVERS AND CORE MUSCLES.

10.40 GHIANI GIOVANNA MARIA et al. [ITALY]

EXPERIMENTAL ANALYSIS OF NUTRITIONAL ASPECTS AND CHANGES IN BODY COMPOSITION DURING 21 MARATHONS IN 21 DAYS. A CASE STUDY.

10.50 MARINCOLA CESARE FLAMINIA et al. [ITALY]

NMR-BASED METABOLOMICS APPROACH TO STUDY THE METABOLIC RESPONSE TO A SESSION OF MILD DYNAMIC EXERCISE UNDER NORMOBARIC MODERATE HYPOXIA.

11.00 CARTA GIANFRANCA et al. [ITALY]

TRANSLATIONAL INSIGHTS INTO METABOLIC FLEXIBILITY: THE IMPACT OF DIETARY POLYUNSATURATED TO SATURATED FAT RATIOS ON FATTY ACID METABOLISM AND INSULIN SENSITIVITY.

11.10 MURRU ELISABETTA et al. [ITALY]

IMPACT OF GRASS-FED SHEEP CHEESE ON METABOLIC FLEXIBILITY IN HEALTHY MIDDLE-AGED INDIVIDUALS. THE KENT'ERBAS STUDY.

12.30-1.40 pm TRAINING & TESTING AND EXERCISE MEDICINE & HEALTH Chair[s]: Alberto Concu [ITALY] and Filippo Tocco [ITALY]

12.30 VINCENTE JOAO PAULO et al. [PORTUGAL] -[SIA]

MOVEMENT DEMANDS IN ELITE MALE AND FEMALE BEACH VOLLEYBALL: SEX DIFFERENCES POSITIONAL ANALYSES ON PORTUGAL CHAMPIONSHIP.

12.40 LAI NICOLA et al. [ITALY] - [SIA]

CARDIOPULMONARY FUNCTION ASSESSMENT IN PEDIATRIC TETRALOGY OF FALLOT PATIENTS USING TREADMILL SUBMAXIMAL EXERCISE DATA.

12.50 LUIS VAZ et al. [PORTUGAL] - [SIA]

SYSTEMATIC REVIEW AIMED TO IDENTIFY THE METHODS USED TO QUANTIFY THE PHYSICAL QUALITIES IN RUGBY UNION PLAYERS.

13.00 GIORDO MARIA PAOLA et al. [ITALY] - [SIA]

EVALUATION OF COACH-ASSISTED TRAINING VERSUS SELF-TRAINING IN AMATEUR SWIMMERS.

13.10 PALMAS MARCO et al. [ITALY] - [YIA]

CARDIOPULMONARY EXERCISE TESTING IN HEALTHY ADOLESCENTS: ANALYSIS OF A POSSIBLE RELATIONSHIP BETWEEN METABOLIC FLEXIBILITY AND LIFESTYLE.

13.20 FANNI MASSIMO et al. [ITALY] - [YIA]

PRELIMINARY RESULTS ON THE EFFECTS OF CONCURRENT ACUTE NORMOBARIC HYPOXIA, EXERCISE AND MENTAL STRESS ON PULMONARY GAS EXCHANGE KINETICS.

13.30 RUGGIU MICHELE et al. [ITALY] - [YIA]

KARTAGENER'S SYNDROME AND AEROBIC EXERCISE, IS OXYGEN CRUCIAL? A CASE REPORT.

Oral presentations - Thursday, June 20th

Congress Venue: Cristalli Hall, Forte Village Resort

3.15-4.25 pm GENETICS AND EPIGENETICS

Chair[s]: Malcolm Collins [SOUTH AFRICA], Pawel Cieszczyk [POLAND]

3.15 BOJARCZUK ALEXANDRA et al. [POLAND] - [SIA]

GENOME-WIDE ASSOCIATION STUDY OF EXERCISE-INDUCED FAT LOSS EFFICIENCY.

3.25 LAGUETTE MARY-JESSICA et al. [SOTH AFRICA] - [SIA]

THE COL11A1 GENE IS ASSOCIATED WITH RISK OF ACL RUPTURE IN A LARGE INTERNATIONAL COHORT: A PRELIMINARY STUDY.

3.35 DE ALMEIDA KATHLEEN YASMIN et al. [JAPAN] - [YIA]

GENDER-SPECIFIC INFLUENCE OF ACTN3 R577X POLYMORPHISM ON MUSCLE INJURY IN PROFESSIONAL BRAZILIAN SOCCER PLAYERS.

3.45 LIM TIFANNY et al. [SPAIN] - [YIA]

POLYMORPHISMS OF CANDIDATE GENES ASSOCIATED WITH THE INCIDENCE AND SEVERITY OF NONCONTACT SPORTS INJURIES IN SPANISH ADOLESCENTS. LES-5G STUDY.

3.55 SAITO MIKA et al. [JAPAN] - [YIA]

ASSOCIATION BETWEEN ACTN3 R577X POLYMORPHISM AND ENDURANCE RELATED PHENOTYPE: A SYSTEMATIC REVIEW AND META-ANALYSIS.

4.05 PROIA PATRIZIA et al. [ITALY] - [SIA]

THE ANALYSIS OF THE GENETIC PROFILE IN ELITE POINT FIGHTING ATHLETES.

4.15 LUBKOWSKA BEATA et al. [POLAND] - [SIA]

PODOLOGICAL ASSESSMENT OF LOWER LIMB INJURIES IN RUGBY PLAYERS AND POTENTIAL IMPLICATIONS OF RECOMBINANT TP-84 GLYCOSYLASE-DEPOLYMERASE DESTROYING CAPSULES.

Poster Room: 5.00-6.30 pm POSTER SESSION

6.40-7.30 pm BIOMECHANICS, OUTDOOR TRAINING AND ACTIVE SPORT TOURISM Chair: Massimiliano Pau [ITALY]

6.40 ARIPPA FEDERICO et al. [ITALY] - [YIA]

THE ROLE OF BALANCE AND LOWER LIMB STRENGTH IN ELITE SOCCER: AN ASSESSMENT ACROSS PLAYING POSITIONS AND PROFESSIONAL LEVELS.

6.50 LODI MATTEO BRUNO et al. [ITALY] - [YIA]

BIOELECTROMAGNETIC MULTIPHYSICS MODELING OF TECAR THERAPY.

7.00 DELL'OSA ANTONIO H. et al. [ARGENTINA] - [SIA]

DIAGNOSTIC TOOL FOR BONE FRACTURE RISK IN MOUNTAIN TOURISM.

7.10 FOIS ANDREA et al. [UGANDA]

INVERSE RELATIONSHIP AMONG LEFT VENTRICLE STROKE VOLUME AND HEAD LINEAR ACCELERATION INDUCED IN COASTAL SAILING TOURISTS BY MOORED BOAT ROLLING: A NON-DRUG ANTI-HYPERTENSIVE ADVANTAGE?

7.20 BERTETTO MANUELLO et al. [ITALY]

A MECHATRONIC TOOL FOR LABORATORY ASSESSING MAXIMUM EXERCISE AEROBIC AND ANAEROBIC POWER OUT IN ÉLITE CYCLISTS.

Poster presentations - Thursday, June 20th

Congress Venue: Poster Room, Forte Village Resort

Chair[s]:

Alison V. SEPTEMBER [SOUTH AFRICA], Carlo CASTAGNA [ITALY], Valentina GINEVICIENE [LITUANIA] Diego PRIMAVERA [ITALY]

5.00-5.25 pm GENETICS AND EPIGENETICS

Chair[s]: Alison V. September and Valentina Gineviciene

5.00 YVERT THOMAS et al. [SPAIN] - [SIA], Position n.1 CANDIDATE GENE POLYMORPHISMS AND QUADRICEPS MUSCLE AND TENDON THICKNESS IN SPANISH CROSS-COUNTRY SKIERS. LES-5G STUDY.

5.05 GIUSEPPE ALLEGRA et al. [ITALY], - [YIA], Position n.2 INFLUENCE OF ACTN-3 C.1729C>T (RS1815739) POLYMORPHISM ON MATCH-PLAY MAXIMAL RUNNING SPEED IN ELITE FOOTBALL PLAYERS: A PRELIMINARY REPORT.

5.10 MACULEWICZ EWELINA al. [POLAND] -[SIA], Position n.3
GENE-GENE INTERACTIONS OF INTERLEUKINS AND BMI IN PHYSICALLY ACTIVE MEN.

5.15 FLORE LAURA et al. [ITALY] - [YIA], Position n.4
DO GENETIC VARIATION INFLUENCE MOTOR PERFORMANCE IN YOUNG SOCCER PLAYERS?

5.20 DZITKOWSKA-ZABIELSKA MAGDALENA et al. [POLAND] - [SIA], Position n.5 NOVEL MYBPC3 GENETIC VARIANTS ASSOCIATED WITH POLISH ELITE ATHLETES STATUS.

5.30-5.40 pm PHYSIOLOGY AND NUTRITION Chair: Carlo Castagna

5.30 STAGI SILVIA et al. [ITALY] - [YIA], Position n.6
BODY COMPOSITION, BODY SYMMETRY, AND BODY IMAGE SATISFACTION IN LONG-TERM
RESISTANCE TRAINING PRACTITIONERS.

5.35 ITURRIAGA TAMARA et al. [SPAIN] - [SIA] Position n.7 FUNCTIONAL, ANTHROPOMETRIC AND NUTRITIONAL QUALITY PROFILE IN ELITE SKIERS OF THE MADRID MOUNTAINEERING FEDERATION.

5.40-5.50 pm PSYCHOLOGY AND SOCIAL SCIENCES Chair: Diego Primavera

5.40 PAZZONA RICCARDO et al. [ITALY] - [YIA], Position n.8 EXPLORING THE IMPACT OF RAMADAN FASTING ON DECISION-MAKING AND PERFORMANCE IN ELITE ATHLETE REFEREES: A CASE STUDY.

5.45 PANI CHIARA et al. [ITALY] - [YIA], Position n.9
PHYSICAL ACTIVITY LEVELS AND QUALITY OF LIFE IN ADOLESCENT STUDENTS: NOVELTIES FROM IPAQ AND SF-36 QUESTIONNAIRE.

Poster presentations - Thursday, June 20th

Congress Venue: Poster Room, Forte Village Resort

Chair[s]:
Naoki KIKUCHI [JAPAN], Carlo CASTAGNA [ITALY]

5.55-6.10 pm BIOMECHANICS AND TRAINING AND TESTING Chair: Naoki Kikuchi

5.55 ARIPPA FEDERICO et al. [ITALY] – [YIA], Position n.10 RELATIONSHIP BETWEEN LOWER BODY MUSCULAR PERFORMANCE AND BODY COMPOSITION IN YOUTH SOCCER PLAYERS.

6.00 VINCENTE JOAO PAULO et al. [PORTUGAL] – [SIA], Position n.11
ANTHROPOMETRIC AND FUNCTIONAL VARIABLES IN YOUTH FEMALE VOLLEYBALL.

6.05 MURA SARA et al. [ITALY] – [YIA], Position n.12 NEUROMUSCOLAR PERFORMANCE IN YOUTH VOLLEYBALL PLAYERS ACROSS DIFFERENT PLAYING POSITION.

6.10-6.15 pm OUTDOOR TRAINING AND ACTIVE SPORT TURISM Chair: Carlo Castagna

6.10 VILLANUEVA JOUSSET TOMAS et al. [ARGENTINA] – [YIA], Position n.13 RESCUES IN ADVENTURE TOURISM: NEW METHODOLOGY FOR CONTINUOUS MONITORING OF VITAL SIGNS.

6.15-6.35 pm SPORTS AND EXERCISE MEDICINE AND HEALTH Chair: Carlo Castagna

6.15 VAZ LUIS et al. [PORTUGAL] - [SIA], Position n.14 COLLISION EVENTS ACROSS DIFFERENT PLAYING STANDARDS AND AGE GROUPS IN PORTUGUESE MALE RUGBY UNION PLAYERS.

6.20 PERRA GIOVANNI et al. [ITALY] - [YIA], Position n.15
MULTIPARAMETRIC EVALUATION OF CARDIOPULMONARY FUNCTION AT SUBMAXIMAL
WORKLOADS IN PEDIATRIC PATIENTS WITH CONGENITAL HEART DISEASE.

6.25 SIVACIOVA MARGARITA OLGA et al. [LITUANIA] - [YIA], Position n.16 NEW INSIGHTS ABOUT THE ROLE OF MYOKINES IN THE CONTEXT OF PHYSICAL PERFORMANCE: BIBLIOMETRIC ANALYSIS.

6.30 DONEDDU AZZURRA et al. [ITALY] - [SIA], Position n.17
EFFECTS OF ACUTE NORMOBARIC HYPOXIA DURING EXERCISE AND CONCURRENT MENTAL
STRESS ON THE CARDIOVASCULAR SYSTEM IN HEALTHY ATHLETES: A PRELIMINARY STUDY.

Activities on the field- Friday, June 21st

Congress Venue: CUS Cagliari

Chair[s]:
Giuseppe ALLEGRA, Marcello Maria OGGIANU

WORKSHOPS: ACTIVITIES ON THE FIELD, EXERCISE TESTING AND EXIBITION AREA

9.00 - 9.20 am Registration

9.20 - 9.30 am Conference welcome to organizer

9.30-11.00 am Exercise Testing

11.00-11.30 am Coffee Break and Exibition Area

11.30-12.30 am Exercise Testing

12.30-1.00 pm Closing statements [Pala B]

1.00-6.00 pm Time free to guide tours

7.45 pm CONFERENCE DINNER at ELYSIUM RESTAURANT, Marina Piccola

GROUP A - TEAM SPORTS

9.30-10.00 am

STATION 1: RUGBY TESTING Speaker: VAZ Luis [PORTUGAL]

Location: Hockey Field

10.00-10.30 am

STATION 2: VOLLEYBALL TESTING

Speaker: VINCENTE Joao Paulo [PORTUGAL]

Location: Pala B

10.30-11.00 am

STATION 3: BASKETBALL TESTING

Speaker: OGGIANU Marcello Maria [ITALY]

Location: Pala B

11.30-12.00 am

STATION 4: FOOTBALL TESTING

Speakers: SECCI Jacopo [ITALY], MELIS Marco [ITALY]

Location: Football Field

12.00-12.30 am

STATION 5: BIOMECHANICS WORKSHOP Speaker: PAU Massimiliano [ITALY]

Location: Yoga Room

Activities on the field- Friday, June 21st

Congress Venue: CUS Cagliari

GROUP B - INDIVIDUAL SPORTS

STATION 1: GYMNASTICS TESTING Speakers: GALAN Gabriela [ITALY], Federico FOIS [ITALY] 9.30-10.00 am Location: Hockey Field STATION 2: TRACK AND FIELD TESTING Speakers: CANEO Stefano [ITALY], Massimo FANNI [ITALY] 10.00-10.30 am Location: Running Track STATION 3: BIOMECHANICS WORKSHOP Speaker: PAU Massimiliano [ITALY] 10.30-11.00 am Location: Yoga Room STATION 4: MARTIALS ARTS TESTING Speakers: Michele RUGGIU [ITALY], Filippo TOCCO [ITALY] 11.30-12.00 am Location: Pala B STATION 5: TENNIS TESTING Speakers: Francesca PORCU [ITALY], Michele PETRUZZO [ITALY] 12.00-12.30 am

Location: Tennis Court

GROUP C - MIXED SPORTS

9.30-10.00 am	STATION 1: BIOMECHANICS WORKSHOP Speaker: PAU Massimiliano [ITALY] Location: Yoga Room
10.00-10.30 am	STATION 2: TENNIS TESTING Speakers: Francesca PORCU [ITALY], Michele PETRUZZO [ITALY] Location: Tennis Court
10.30-11.00 am	STATION 3: TRACK AND FIELD TESTING Speakers: CANEO Stefano [ITALY], Massimo FANNI [ITALY] Location: Running Track
11.30-12.00 am	STATION 4: RUGBY TESTING Speaker: VAZ Luis [PORTUGAL] Location: Hockey Field
12.00-12.30 am	STATION 5: FOOTBALL TESTING Speakers: SECCI Jacopo [ITALY], MELIS Marco [ITALY] Location: Football Field

Congress Venues

AULA MAGNA BOSCOLO Cittadella Universitaria di Monserrato SS 554, Bivio Sestu, 09042 Monserrato FORTE VILLAGE RESORT SS 195, km 39.600 Santa Margherita di Pula CUS CAGLIARI Via Is Mirrionis n.3 090123 Cagliari







June 20th



June 21st

Main partners





ForteVillage SARDINIA







Official Exibitors





See you at

Conference Social Dinner, Friday June 21st



Elysium Restaurant, Marina Piccola 09126 Cagliari

(Reservation required)



UNIVERSITA' DI CAGLIARI - UNIVERSITY OF CAGLIARI

SCIENZE DELL'ESERCIZIO FISICO E DELLO SPORT - SPORTS AND EXERCISE SCIENCES



https://www.ussic.it/



Conference Secretariat

(registration, payments, online abstract management, local logistics, general information)
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