

Schweizerische Stiftung für die Erforschung der Muskelkrankheiten
Fondation suisse de recherche sur les maladies musculaires
Fondazione svizzera per la ricerca sulle malattie muscolari

8th Swiss Meeting on Muscle Research
Macolin / Magglingen
28th – 30th November 2010



Organizer: Denis Monard
Friedrich Miescher Institute
Maulbeerstrasse 66
CH-4058 Basel

TIMETABLE OF ORAL PRESENTATION

PROGRAMME

Day 1 - Sunday, 28th November 2010

16:00 - 17:30	Check-in rooms (Swiss Olympic House, see plan No. 47)
17:30 -	Arrival and Welcome Drink
18:15 - 19:45	DINNER (Swiss Olympic House)
20:00 - 20:35	Beat Trueb Dept. of Clinical Research, University of Bern Role of the receptor FGFR1 during myoblast fusion and differentiation
20:35 - 21:10	Marina Leroy Centre Medical Universitaire, Geneve Hyperpolarization-dependent differentiation of myoblasts induced by EGFR knock-down
21:10 - 21:45	Basile Darbellay Centre Medical Universitaire, Genève STIMs proteins in skeletal muscle differentiation

Day 2 - Monday, 29th November 2010

07:30 - 08:15	<i>BREAKFAST</i>
08:15 - 08:50	Ruthger van Zwieten Institut de Biotechnologie, UNIL, EPFL, Lausanne Cell therapy of dystrophic muscle and assessment of sarcolemmal stability by atomic force microscopy
08:50 - 09:25	Werner J. Z'Graggen University Hospital Bern, Inselspital, Bern Recording of muscle velocity recovery cycles: a new tool for research in muscle disease
09:25 - 10:00	Michael Sinnreich Neuromuscular Research Group, Pharmacenter, Basel Basel Neuromuscular Center - Translational Research Projects
10:00 - 10:30	<i>COFFEE BREAK</i>

10:30 - 11:05	J. Halter (MNGIE Consortium), Michael Schüpbach (Inselspital Bern) Allogeneic haematopoietic stem cell transplantation for mitochondrial neurogastrointestinal encephalomyopathy (MNGIE). A consensus conference proposal for a standardized approach
11:05 - 11:40	Qing Huo Institute of Cell Biology, University of Bern Investigation of splicing defects in spinal muscular atrophy and progress towards a somatic gene therapy
11:45 - 13:00	<i>LUNCH</i>
13:00 - 13:35	Oliver Baum University of Bern The expression of different neuronal nitric oxide synthase (nNOS) isoforms in skeletal muscle: biochemical properties and functional implications
13:35 - 14:10	Urs Ruegg Pharmacology, University of Geneva, Geneva Calcium and ROS: a vicious cycle damaging dystrophic muscle
14:10 - 14.45	Ernst Niggli University of Bern ROS and calcium sparks in dystrophic muscle
15:00 - 17:00	<i>POSTER SESSION</i>
17:00 - 17:35	Christoph Handschin Biozentrum, Universität Basel Regulation of muscle function in health and disease by the coactivator PGC-1alpha
17:35 – 18:10	Markus A. Rüegg Biozentrum, Universität Basel The role of mTOR signaling in muscle wasting
18:30 - 20.00	<i>DINNER</i>
20:00 -	<i>POSTER SESSION</i>

Day 3 - Tuesday, 30th November

- 08:15 - 08:50 Nadine Hardel
University of Basel
New functions of neuregulin and agrin at the neuromuscular junction
- 08:50 - 09:25 Peter Meister
Friedrich Miescher Institute for Biomedical Research, Basel
Laminopathic myopathies: mechanisms of pathology
- 09:25 - 10:00 Harald Herrmann
German Cancer Research Center (DKFZ), Heidelberg
Filament and network mechanics of mutated desmins
- 10:00 – 10:30 *COFFEE BREAK*
- 10:300 - 11:05 Bertrand Favre
University Clinic for Dermatolog/DKF, Bern
Analysis of the biological functions of spectraplakins in muscle cells
- 11:05 – 11:40 Martinho Soto-Ribeiro
Centre Médical Universitaire, Genève
Mechanisms and role of integrin dynamics in muscle cell adhesion

End of the meeting

SCHEDULE OF POSTER PRESENTATION

Schedule of Poster Presentations

- 1 **B.A. Azakir**, B. Erne, S. Di Fulvio, M. Sinnreich
A sarcolemmal wounding assay to study membrane resealing in cultured dysferlin deficient human myoblasts
- 2 **B. Darbellay**, S. Konig, S. Arnaudeau, L. Bernheim
STIMs proteins in skeletal muscle differentiation
- 3 **S. Konig**, P. Brawand, L. Bernheim
MEF2 isoforms implicated in the early step of myogenesis
- 4 **M. Leroy**, S. Konig, L. Bernheim
Hyperpolarization-dependent differentiation of myoblasts induced by EGFR knock-down
- 5 **Q. Huo**, R. Nlend, K. Meyer, S. Saxena, B. Schneider, D. Schümperli
Investigation of splicing defects in spinal muscular atrophy and progress towards a somatic gene therapy
- 6 **A. Egger**, P. Grevorevic, C. Handschin
Modulation of PGC-1 coactivators in skeletal muscle in vivo with adeno-associated viral vectors
- 7 R.W. Zwieten, Y. Dusserrer, N. Mermod, **N.J. Niederländer**
Variable transfection efficiencies for non-viral gene delivery to human and mouse adult primary stem cells of microvessel origin.
- 8 **J. Kinter**, F. Kern, M. Sinnreich
A pathophysiologically based high throughput assay to identify small molecular compounds for the treatment of Myotonic Dystrophy type 1
- 9 **T. Laumonier**, S. Konig, L. Bernheim, J. Menetrey
Dextran sulfate prevents NK cell mediated cytotoxicity and improves human myoblasts survival after intramuscular transplantation in mice
- 10 **O. M. Dorchies**, J. Patte-Reutener, O. Patthey-Vuadens, U. Ruegg
Tamoxifen is more potent than raloxifene to ameliorate skeletal muscle function of adult mdx5Cv dystrophic mice
- 11 **F. Huber-Abel**, H. Hoppeler, O. Baum
Exercise-induced mitochondrial biogenesis and angiogenesis correlated with the up-regulation of neuronal nitric oxide synthase (nNOS) in skeletal muscle
- 12 **N. Ullrich**, D. Fischer, E. Niggli, F. Zorzato, S. Treves
Calcium homeostasis of human myotubes carrying a CAV3 mutation linked to rippling muscle disease

- 13 **W.J. Z'Graggen**, R. Troller, K.A. Ackermann, A.M. Humm, H. Bostock
Velocity recovery cycles of human muscle action potentials: repeatability and variability
- 14 **O. M. Dorchies**, C. Gallo, J. Patte-Reutenaer, E. Gayi, U. Ruegg
Green tea polyphenols enhance motor performance and reduce calcium influx in a mouse model for Duchenne muscular dystrophy
- 15 C. Gallo, H. Ismail, **O.M. Dorchies**, K. Jacobson, M. Strosova, E. Niggli, U. Ruegg
Phenotype of TRPC1 knockout/mdx mice
- 16 **H. Ismail**
Doxorubicin affects calcium handling in Dystrophic skeletal muscle cells
- 17 M. Fachaouy, K. Pocsai, N. Shirokova, **E. Niggli**
Redox modifications of Ca²⁺ release events
- 18 **M. Fanchaouy**, K. Pocsai, N. Shirokova, E. Niggli
Calcium signals in dystrophic myotubes in primary culture
- 19 **F. Cudré-Mauroux, R. Nlend Nlend**
Investigating potential targets involved in the pathway between SMN1 loss and SMA disease
- 20 **S. Lin**, M.A. Ruegg
Activation of mTORC1 signaling ameliorates the disease progression in mdx mice.
- 21 **K. Romanino**, V. Albert, S. Lin, M.A. Ruegg
mTORC1 regulates mitochondrial function in skeletal muscle
- 22 **M.M. Lino**, B. A. Azakir, M. Sinnreich
Towards understanding the pathogenesis of inclusion body myositis
- 23 **D. Aguayo**, F. Dettwiler, J. Denoth
Mechanics of dynamic muscle cell fatigue
- 24 M. Albesa, **J. Ogrodnik**, J.-S. Rougier, H. Abriel
Regulation of the cardiac sodium channel Nav1.5 by utrophin in dystrophin deficient mice
- 25 **N. Hardel**, M. Akaaboune, N. Gajendran, S. Wakefield, H.R. Brenner
Neuregulin/ErbB regulates acetylcholine receptors at the neuromuscular junction by phosphorylation of α -dystrobrevin
- 26 **A.-S. Arnold**, M. Christe, C. Handschin
The influence of a muscle-specific PGC-1alpha overexpression on the NMJ organization
- 27 N. Hardel, S. Gatti, S. Sladecek, **H.R. Brenner**
Induction by agrin of a subsynaptic microtubule network

- 28 **K. Poliakova**, I. Schepens, L. Borradori
Understanding the function of the spectraplakin BPAG1 in muscle
- 29 **S. Di Fulvio**, B.A. Azakir, B. Erne, M. Sinnreich
The role of dysferlin in microtubule stability
- 30 **U. Bieler**, I. Agarkova, J. Denoth
The role of intermyofibril filaments on sarcomere dynamics
- 31 **F. Dettwiler**, J. Denoth
Cooperation and variability within the sarcomere network invested by mini muscle cells

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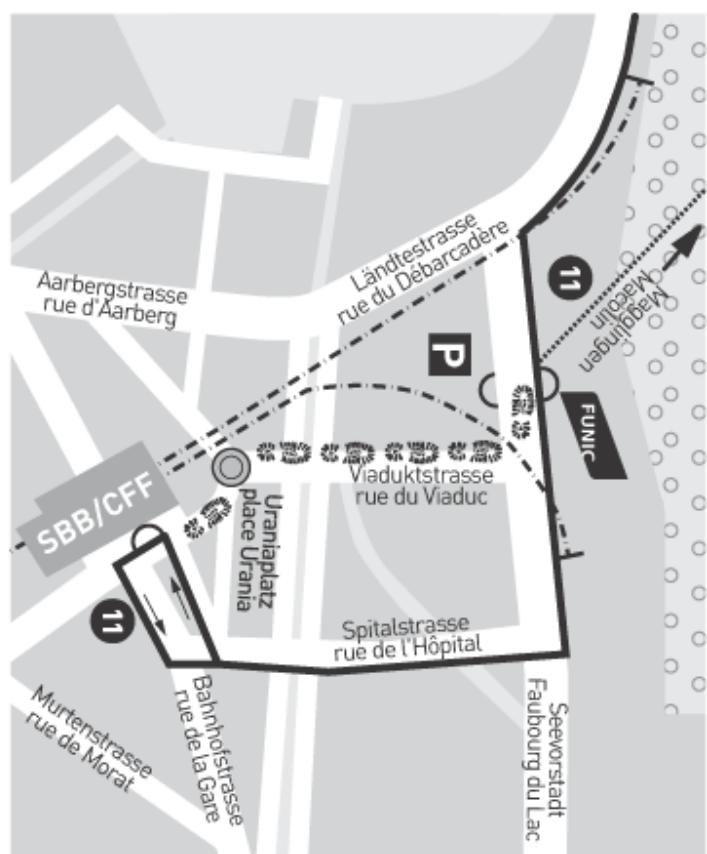
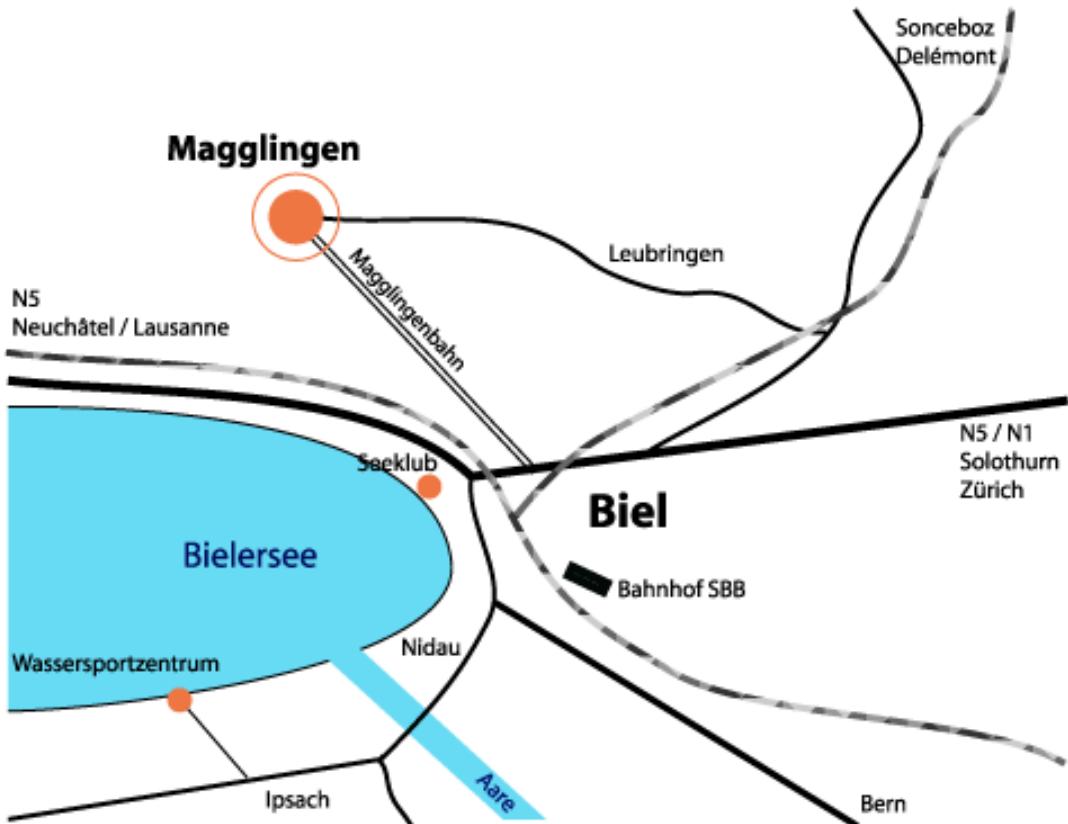
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LOCATION - FUNICULAR TIMETABLE - PARKING



— ligne 11 / Linie 11

- - - chemin de fer / Eisenbahn

..... funiculaire / Standseilbahn

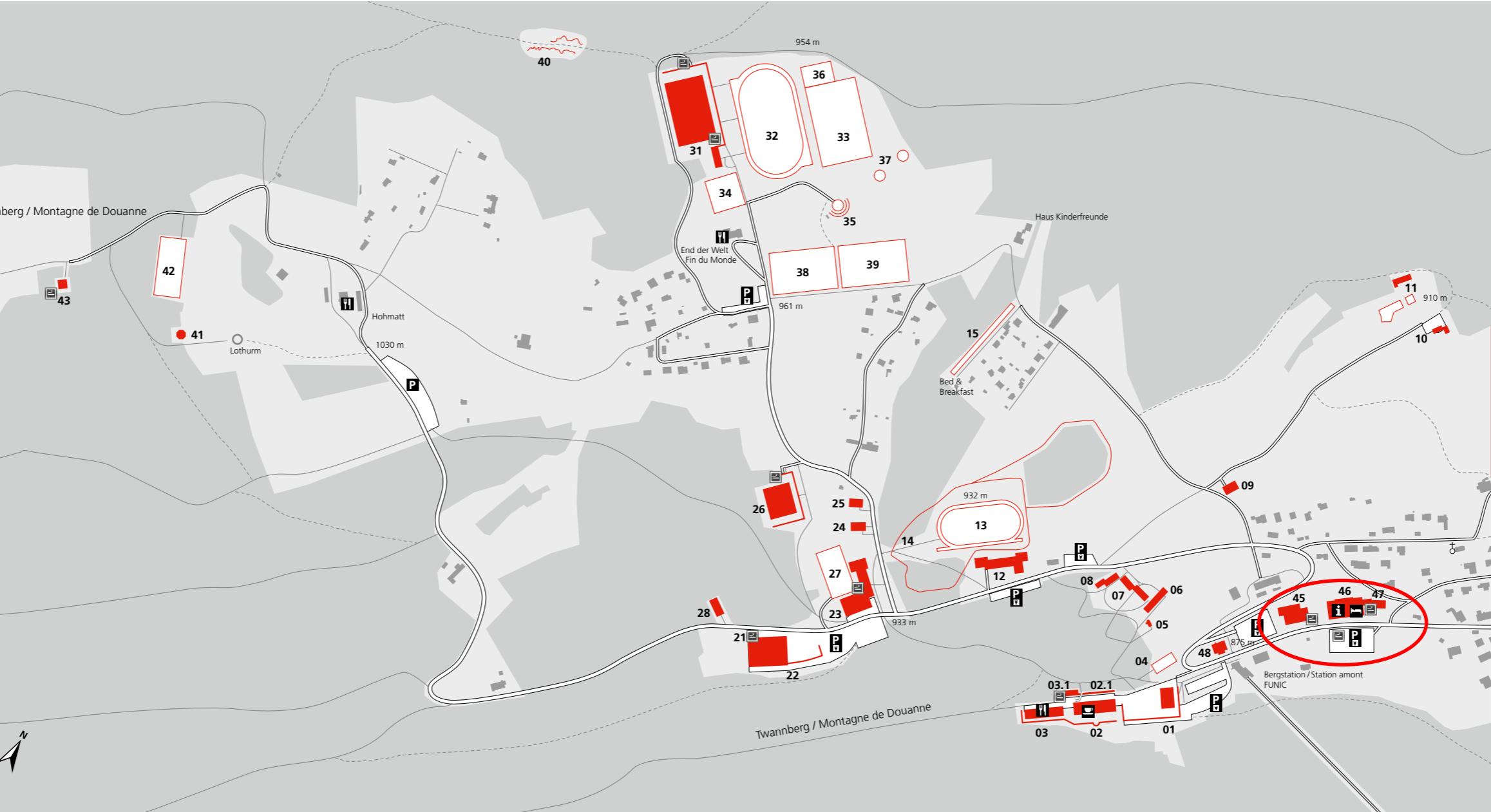
○ arrêt bus / Bushaltestelle

✿ à pied / zu Fuss

11 bus 11 Tpb / Bus 11 VB

- 01** Hochschule Hauptgebäude
Haute école Bâtiment principal
- 02** Grand Hotel
Grand-Hôtel
- 02.1** Bike-Garage
Garage vélos
- 03** Bellavista
Bellavista
- 03.1** Anlieferung
Livraisons
- 04** Tennisplatz Hauptgebäude
Court de tennis Bâtiment principal
- 05** Kapelle BASPO
Chapelle OFSPO
- 06** Schachenmannhaus
Maison Schachenmann
- 07** Bresil
Brésil
- 08** Schweizerhaus
Maison suisse
- 09** Belair
Belair
- 10** Bernerhaus
Maison bernoise
- 11** Freibad
Piscine en plein air
- 12** Hochschule Lärchenplatz
Haute école Place des Mélèzes
- 13** Lärchenplatz
Stade des Mélèzes
- 14** Finnennbahn
Piste finlandaise
- 15** Hindernisbahn
Piste d'obstacles
- 21** Sport-Toto-Halle
Salle du Sport-Toto
- 22** Werkhof
Centre d'entretien
- 23** Alte Sporthalle*
Ancienne salle de sport*
- 24** Kampfsportpavillon
Pavillon des sports
de combat
- * mit Polysport- und Fitnessraum /
* avec Salle polysport et Salle polysport

- 25** Nordic Pavillon
Nordic Pavillon
- 26** Jubiläumshalle
Salle du Jubilé
- 27** Hartplatz
Place en dur
- 28** Lagerhalle
Entrepôt
- 31** Halle End der Welt
Salle de la Fin du Monde
- 32** Stadion End der Welt
Stade de la Fin du Monde
- 33** Trainingsplätze 3+4
Terrains d'entraînement 3+4
- 34** Tennisplätze End der Welt
Courts de tennis Fin du Monde
- 35** Amphitheater
Amphithéâtre
- 36** Beachsportanlage
Sports sur sable
- 37** Pitch and Putt Golf
Golf compact
- 38** Trainingsplatz 1
Terrain d'entraînement 1
- 39** Trainingsplatz 2
Terrain d'entraînement 2
- 40** Klettergarten
Mur d'escalade
- 41** Schutzdach
Refuge
- 42** Birkenplatz
Terrain des Bouleaux
- 43** Waldhaus
Cabane des bois
- 45** Jurahaus
Maison du Jura
- 46** Swiss Olympic House
Swiss Olympic House
- 47** Seehaus
Maison du lac
- 48** Des Alpes
-  Raucherzone
Zone fumeurs



Das BASPO ist rauchfrei L'OFSPO est un espace non-fumeur

Das gesamte Gelände sowie alle Gebäude des Bundesamts für Sport BASPO in Magglingen sind rauchfrei. Rauchen ist nur in speziell gekennzeichneten Bereichen erlaubt.

L'ensemble du site ainsi que tous les bâtiments de l'Office fédéral du sport à Macolin sont des espaces non-fumeurs. Il est permis de fumer dans les lieux spécialement indiqués à cet effet.



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