

8th *International
Adenovirus Meeting*

Program and Abstracts

August 30 - September 2, 2006
Zürich

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The 8th International Adenovirus Meeting

August 30 to September 02, 2006

Zürich, Switzerland

Organizing Committee:

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General Information

Registration Desk

The congress office and registration desk will be located on floor F close to the conference entrance (map). The desk will be open from 10:00 to 22:30 on August 30, and from 8:30 to 18:00 on the other days. It will be closed at 14:00 on September 2. Please come to the desk for any help or information you may need.

A message board is located near the conference office.

Identification Badge

The identification badge is required for admission to all congress sessions and activities. Blue badges designate volunteers and organizers who can give general information and assistance.

Internet/E-mail Access

Computers with internet access and wired Ethernet connections will be available in front of the lecture hall. Wireless internet access via laptop is possible. Information and assistance at the registration desk.

Poster Presentation

All posters will be on display on floor F close-by the lecture hall throughout the meeting. Authors should be in attendance at their posters during the scheduled poster session on Thursday, 31 August from 20:00 to 22:00.

Dining

Meal tickets for lunch in the University restaurant (Mensa) on August 31 and September 1 can be purchased at the information desk (CHF. 17.50, including one meal, vegetable or salad, 1 drink, dessert and coffee). The restaurant also offers sandwiches, a choice of salads, etc.

Refreshment

Coffee, tea, soft drinks and "Gipfeli" will be served at coffee break in front of the lecture hall.

Social Activities

A *Dinner* is offered at the University restaurant (Mensa) on Wednesday from 18:30 to 20:00.

A *Barbeque* will be held on campus on Thursday, August 31 from 18:30 to 20:00.

The *Congress Dinner* will be held in the University Lichthof on Friday, September 1 from 19:00 to 21:00.

An informal *Farewell Gathering* will be held on Saturday, September 2 at 13:20.

Local Transportation

Zurich has excellent public transportation. Tram and buses run until shortly after midnight. You will get a ticket that permits free use of trams, buses and trains within the city limits (Zone 10). Make sure you always carry this ticket with you.

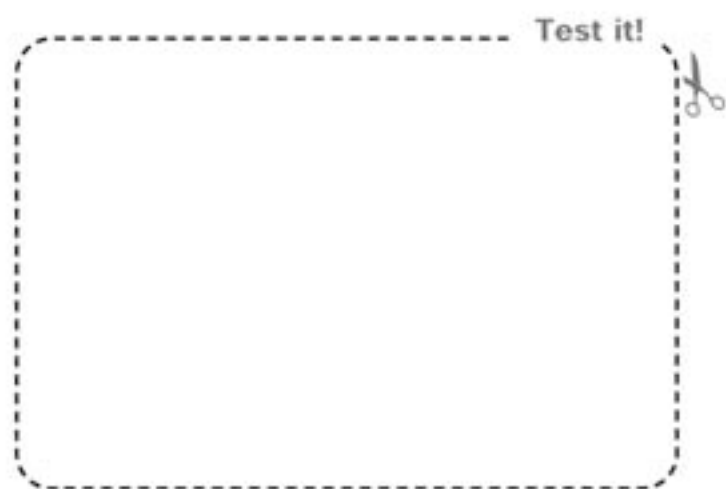
Important Phone Numbers, Public Phones

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Wednesday, August 30

Opening Remarks (15-G-60)

14:00-14:10

U. Greber

A) Structure and Receptors

S. Cusack, P. Stewart

A01-01	14:10-14:35	CryoEM structure of adenovirus reveals new insights into disassembly and release of its membrane lytic factor, protein VI. <i>Stewart, P.</i>
A01-02	14:35-15:00	Cryo-electron microscopy on adenoviruses and dodecahedron particles. <i>Schoehn, G.</i>
A01-03	15:00-15:25	Crystal structure of the avian adenovirus (CELO) long fibre head. <i>van Raaij, M.</i>
A01-04	15:25-15:50	Primary receptors of Ad37 and canine adenovirus 2 (CAV-2). <i>Seiradake, E.</i>
A01-05	15:50-16:00	Cell Signal Transduction studies of Bioactive molecules extracted from marine Pseudomonas sp. exhibiting Anti-Inflammatory properties. <i>Rupesh, K.</i>

Break 30 min

A02-01	16:30-16:55	Adenovirus group B receptors. <i>Lieber, A.</i>
A02-02	16:55-17:20	Species B Adenovirus and hematopoietic cells revisited. <i>Wadell, G.</i>
A02-03	17:20-17:45	Characterization of CD46 as receptor for Adenovirus B serotypes. <i>Hemmi, S.</i>
A02-04	17:45-18:00	Dissecting the CAR homodimer interaction from the CAR:Adenovirus interaction: A sweet story. <i>Excoffon, K.</i>

Dinner Mensa

A03-01	19:30-19:55	Structure Function of the Coxackie Adenovirus Receptor. <i>Zabner, J.</i>
A03-02	19:55-20:20	Role of the adenovirus IVa2 protein in genome encapsidation. <i>Imperiale, M.J.</i>

A03-03	20:20-20:45	Activation of the adenovirus proteinase via a long signal transduction pathway involving a viral peptide and DNA. Mangel, W.F.
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B) Entry**J. Zabner, G. Nemerow**

B04-01	21:00-21:25	PentAd41, a novel human membrane protein interacting with short fibre of enteric adenovirus. Chroboczek, W.
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B04-02	21:25-21:50	Heparan Sulfate and integrin implication in Ad3 dodecahedron attachment and entry into cells in interphase and mitotic cells. Fender, P.
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B04-03	21:50-22:15	Adenovirus use lactoferrin as a bridge for CAR-independent binding to and infection of epithelial cells. Arnberg, N.
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Free soft drinks & beer in Restaurant Neubühl

22:15-24:00

Thursday, August 31

B05-01	09:00-09:25	Macropinocytic uptake and infection of epithelial and hematopoietic cells by human adenovirus type 3. Amstutz, B.T.
B05-02	09:25-09:50	Clathrin-mediated endocytosis of adenovirus type 2 leads to viral escape independent of classical early endosomes. Gastaldelli, M.
B05-03	09:50-10:15	Adenovirus protein VI-membrane interactions. Wiethoff, C.M.
B05-04	10:15-10:40	Disassembly specific ubiquitination of adenoviral capsid proteins. Wodrich, H.
B05-05	10:40-11:05	Infectious cytoplasmic transport of adenovirus type 2 involves the recruitment of kinesin. Strunze, S.

Break 25 min

C) Replication and host cell interactions

W. Wold, G. Akusjarvi

C06-01	11:30-11:55	E1A Transcriptional Activation. Berk, A.J.
C06-02	11:55-12:20	Purification of an infected cell-specific protein that associates with the adenoviral IVa2 gene product to stimulate transcription from the viral major late promoter. Flint, J.
C06-03	12:20-12:45	The mechanism of disassembly of adenovirus core complexes by host acidic proteins. Haruki, H.
C06-04	12:45-13:10	L4-33K, an adenovirus encoded alternative RNA splicing factor. Akusjarvi, G.

Lunch Mensa

C07-01	14:15-14:40	Oncolytic Adenovirus Vectors that Overexpress ADP for Increased Efficacy: Evaluation in a Permissive, Immunocompetent, Syrian Hamster Model. Wold, W.S.M.
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C07-02	14:40-15:05	Cell Cycle Restriction to Adenovirus Replication. <i>Ornelles, D.</i>
C07-03	15:05-15:30	INACTIVATION OF THE CELLULAR DNA DAMAGE RESPONSE BY INTERACTIONS OF ADENOVIRUS WITH THE CELLULAR MRE11 DNA REPAIR COMPLEX. <i>Weitzman, M.D.</i>
C07-04	15:30-15:55	Study of the mechanisms underlying E4orf4-induced cell death. <i>Kleinberger, T.</i>
C07-05	15:55-16:05	Investigating the role of the nucleolar antigen B23 in adenovirus replication. <i>Hindley, C.E.</i>
C07-06	16:05-16:15	The role of nucleolar protein UBF in viral replication. <i>Matthews, D.</i>

Break 30 min

D) Evolution

M. Benko, G. Wadell

D08-01	16:45-17:10	Promiscuous adenoviruses: coevolution and host switches. <i>Harrach, B.</i>
D08-02	17:10-17:35	Improving the annotation of adenovirus genomes. <i>Davison, A.J.</i>
D08-03	17:35-18:00	Molecular epidemiology of adenovirus 4 infections of US military recruits between 1997 and 2003. Evolutionary trends after elimination of vaccine selective pressure. <i>Kajon, A.E.</i>
D08-04	18:00-18:25	Genomic and bioinformatics analyses of human adenoviruses implicated in Acute Respiratory Disease (ARD): Insights into pathoepidemiology and evolution from the genomes. <i>Seto, D.</i>
D08-05	18:25-18:35	Co-infections of multiple adenovirus species in patients with febrile respiratory illness. <i>Metzgar, D.</i>
D08-06	18:35-18:45	Molecular Phylogeny of the Penton Protein: Implications for the Molecular Evolution of Human Adenoviruses (HAdV). <i>Heim, A.</i>

D08-07	18:45-18:55	Adenovirus 7h sequencing: hexon gene polymorphism analysis in a twelve-year period in Buenos Aires, Argentina. <i>Barrero, P.R.</i>
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Buffet Dinner

18:55-20:00

Poster Session

20:00-22:00

Restaurant Neubühl

22:00-24:00

Friday, September 1

E) Vector and Tropism Modification

S. Kochanek, S. Hemmi

E09-01	09:00-9:25	Development of minor capsid protein IX as an anchor for targeting ligands. <i>Hoeben, R.C.</i>
E09-02	09:25-09:50	Tropism modified non human adenovirus as a vector. <i>Tikoo, S.K.</i>
E09-03	09:50-10:15	Polymer coated vectors for systemic gene delivery. <i>Green, N.</i>
E09-04	10:15-10:40	Intravascular Interaction between Adenovirus and Platelets Promotes Reticuloendothelial Sequestration of Adenovirus and Interaction with tissue Macrophages. <i>Stone, D.</i>

Break 30 min

E10-01	11:10-11:35	Development of a novel vector based on species D adenoviruses using transposon-assisted cloning and trace-less mutagenesis. <i>Burgert, H.</i>
E10-02	11:35-12:00	Frequency of Random and Targeted Chromosomal Integration of Replication-Incompetent Adenoviral Vector in Mouse ES cells. <i>Mitani, K.</i>
E10-03	12:00-12:25	Integrating adenovirus vectors. <i>de Vries, A.A.F.</i>
E10-04	12:25-12:50	Development and preclinical evaluation of novel gene-deleted adenoviral hybrid vectors for prolonged phenotypic correction in small and large animal models. <i>Ehrhardt, A.</i>

Lunch Mensa

E11-01	14:00-14:10	An Adenovirus 5 vector genetically re-targeted by an Affibody TM molecule with specificity for tumor antigen HER2/neu. <i>Magnusson, M.K.</i>
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E11-02	14:10-14:20	Geneti-chemical targeting of adenovirus vectors. Kreppel, F.
E11-03	14:20-14:30	Differential role of alpha v integrins in internalization and transduction efficacies of wild type and RGD4C fiber-modified adenovirus. Ambriovic-Ristov, A.
E11-04	14:30-14:40	Hepatic Tropism of Adenoviral Type 5 Vectors Can Be Mediated by Multiple Coagulation Factors. Parker, A.L.
E11-05	14:40-14:50	Systemic gene delivery to the kidney by tropism-modified adenoviral vectors. Nicklin, S.A.
E11-06	14:50-15:00	CD133+ cells as targets for glioma gene therapy using adenovirus vectors. Skog, J.
E11-07	15:00-15:10	Comparative transductions of cell lines from human and different animal species mediated by replication competent Ad11 vectors. Mei, Y.
E11-08	15:10-15:20	Adenoviral fiber modifications design novel endocytosis pathway. Rogee, S.
E11-09	15:20-15:30	Exploiting Adenovirus Minor Capsid Protein IX for genetically retargeting to tumor cells. de Vrij, J.
E11-10	15:30-15:40	Reduction of adenovirus tropism to the liver by modification of Hexon protein. Benihoud, K.
E11-11	15:40-15:50	Adenovirus core polypeptides as adjuvants for liposome mediated gene therapy. Lee, T.
E11-12	15:50-16:00	Insertion of a Hyper Stable scFv Into the Adenovirus Capsid using pIX as anchor. Vellinga, J.

Break 30 min

F) Clinical Applications**R. Iggo, R. Hoeben**

F12-01	16:30-16:55	A phase I/II clinical trial of virus directed enzyme - prodrug therapy using an adenovirus expressing nitroreductase (NTR) with CB1954 for prostate cancer. <i>Mautner, V.</i>
F12-02	16:55-17:20	Combination therapy with oncolytic adenoviruses and anti-angiogenic drugs. <i>Iggo, R.</i>
F12-03	17:20-17:45	Delta-24, Delta-24-RGD and ICOVIR for glioma treatment: synergy with chemotherapy. <i>Alonso, M.M.</i>
F12-04	17:45-17:55	Development of YB-1 dependent oncolytic adenoviruses for the treatment of solid tumors. <i>Holm, P.S.</i>
F12-05	17:55-18:20	Pathways responsible for the immediate innate response to systemically applied adenovirus vectors. <i>Shayakhmetov, D.</i>
F12-06	18:20-18:30	Improving bioprocesses for the production of adenovirus based vaccines. <i>Ferreira, T.B.</i>

Conference Dinner

19:00-21:00

Restaurant Neubühl

21:00-24:00

Saturday, September 2

G) Immunology and Pathogenesis

E. Kremer, A. Lieber

G13-01	08:30-08:55	Adaptive immune responses clear adenovirally transduced cells from the brain: mechanisms and microanatomy. <i>Lowenstein, P.</i>
G13-02	08:55-09:20	The conundrum between immunological memory to adenovirus and their use as vectors in clinical gene therapy. <i>Kremer, E.J.</i>
G13-03	09:20-09:45	Preferential Activation of Toll Like Receptor Nine (TLR9) by Subgroup B and D Adenoviruses. <i>Nemerow, G.</i>
G13-04	09:45-10:10	Role of NK cells and macrophages in mouse adenovirus type 1 infection. <i>Spindler, K.</i>
G14-01	10:40-10:50	A novel E3 protein of species D adenoviruses is secreted and binds to leukocytes. <i>Burgert, H.</i>
G14-02	10:50-11:00	Immune Responses to Adenovirus in Healthy and Immunocompromised Individuals and in Cancer Gene Therapy Patients. <i>Onion, D.</i>
G14-03	11:10-11:10	Decreased reactivity of human pre-existing Adenovirus type 5 (Ad5) antibodies towards a knobless affibody-liganded Ad vector. <i>Hong, S.</i>
G14-04	11:10-11:20	In vivo activation of NK cells during clearance of disseminated adenovirus infection in children after stem cell transplantation. <i>van Tol, M.J.D.</i>
G14-05	11:20-11:30	Toxicity of fiber- and penton base-modified adenovirus type 5 vectors on lung development in newborn rats. <i>Waszak, P.</i>
G14-06	11:30-11:40	Dynamic Of Adenovirus 7h Gene Expression Throughout Acute Infection. <i>Barrero, P.R.</i>

H) New Developments**U. Greber**

H15-01	11:45-12:10	Computational dissection of adenovirus motion on the cell surface. Burckhardt, C.J.
H15-02	12:10-12:35	Global profiling of host gene expression during human adenovirus infection. Pettersson, U.
H15-03	12:35-12:45	Adenovirus type 5 infection of normal human fibroblasts induces massive reprogramming of cellular gene expression. Miller, D.L.
H15-04	12:45-13:10	Speculations on the biased codon usage of adenoviruses. Benko, M.

Poster Awards 13:10-13:20**Farewell** 13:30

A) Structure and Receptors

AP-01 Arg279Gln substitution in the Ad11p fiber knob abolishes binding to CD46.
Gustafsson, D.

AP-02 Multivalent sialic acid conjugates inhibit adenovirus type 37 from binding to and infecting human corneal epithelial cells.
Nilsson, E.C.

AP-03 Human Lactoferrin Promotes Infection of Species C Adenovirus in Cells of Human Origin.
Johansson, C.

AP-04 CD46 is a cellular receptor for all species B adenoviruses except types 3 and 7.
Marttila, M.

AP-05 Members of adenovirus subgroup B utilize CD80 and CD86 as cellular attachment receptors.
Pereboev, A.

AP-06 A quasi-atomic model of human adenovirus type 5 capsid. *Fabry, C.*

AP-07 Comparative genomic analysis of two strains of human adenovirus type 3 isolated from children with acute respiratory infection in southern China.
Zhang, Q.

B) Entry

BP-01 The Structural study of Avian adenovirus gal1 (FAdV-1) fiber head.
El Bakkouri, M.

BP-02 Transport of adenovirus type 5 in HEK293 and A549 cells with and without microtubules.
Brown, M.

BP-03 The Role of CAR in regulating epithelial junction formation. *Hussain, F.*

BP-04 Role of PI3K and MAPK signalling in Adenovirus type 5 infection.
Farmer, C.

BP-05 Human adenovirus type 41 infection of colon cancer cells. *Kälin, S.*

C) Replication and host cell interactions

CP-01 A CD46-transgenic mouse as a model for Adenovirus biodistribution.
Andersson, E.

CP-02 Requirement of RUNX1 for the function of the adenovirus E1b-55k–E4orf6 protein complex.
Ornelles, D.

CP-03 Adenovirus E1A proteins interact with Sprouty, a regulatory protein of the

Receptor Tyrosine Kinase (RTK) signaling pathway. **Zaremba, A.**

CP-04 Investigation of the interaction of adenovirus E1A with nuclear sub-structures.
James, N.J.

CP-05 Reversal of the classical multidrug resistance (MDR) phenotype by adenoviral delivery of anti-MDR1 short hairpin RNAs and the oncolytic effect of replication-deficient E1/E3 defective adenoviruses in multidrug-resistant cells.
Kaszubiak, A.

D) Evolution

DP-01 Genome Sampling of a Novel Siadenovirus Suspected to Cause Fatalities Among Raptors.
Kovács, E.R.

DP-02 The E3 region of human adenovirus 4-a: Comparative sequence and genetic analysis.
Myers, C.A.

E) Vector and Tropism Modification

EP-01 Phenotype of Ad5 fibre knob mutants suggests the involvement of the knob domain in fibre synthesis, fibre encapsidation and intranuclear protein crystal formation.
Franqueville, L.

EP-02 Disulfide bond formation in NGR fiber-modified adenovirus is essential for retargeting to aminopeptidase N.
Majhen, D.

EP-03 Lentivirus-mediated Expression of Adenovirus Fibers for Adenovirus Packaging: Characterization of Two Fiber Variants Harboring Tumor Antigen-specific TCRs.
Uil, T.G.

EP-04 Transposon Assisted Construction and Manipulation of Recombinant Human Adenoviruses.
Ruzsics, Z.

EP-05 Construction of a replication deficient human adenovirus type 4 vector system.
McSharry, B.P.

EP-06 Oncolytic adenoviruses redirected with a tumor-specific T-cell receptor.
Willemsen, R.

F) Clinical Applications

- FP-01 Canine adenovirus-based vaccines. **Klonjowski, B.**
- FP-02 Conditionally Replicative Adenovirus Vector Overexpressing the ADP (E3-11.6K) Protein and Armed with Human Interferon Alpha. **Wold, W.**
- FP-03 Extracellular matrix degrading enzymes increase Adenovirus infection of multicellular spheroids. **Purdie, L.**
- FP-04 Computational analysis of the structural and non-structural protein synthesized by Chikungunya Virus – mosquito borne disease and vaccine prediction. **Rupesh, K.R.**
- FP-05 Gene Transfer of GFP-tagged CFTR to human tracheal gland serous cells by Adenovirus vector: Cellular localisation and correction of CFTR activity. **Granio, O.**

G) Immunology and Pathogenesis

- GP-01 Host cell gene dysregulation in response to adenovirus transformation. **Strath, J.**
- GP-02 An outbreak of epidemic keratoconjunctivitis caused by an adenovirus type 22/H8 intermediate strain recombinant for HAdV-D37 in the penton region. **Heim, A.**
- GP-03 Tissue distribution and virus replication kinetics in a fatal case of disseminated adenovirus type 2 infection. **Heim, A.**
- GP-04 The use of an adenoviral vector in a gene immunisation study designed to examine the role of antibodies to voltage gated potassium channel (VGKC) sub-units in neuroimmunological disease. **McMenamin, M.M.**

H) New Developments

- HP-01 Beyond mammalian adenoviruses: genome sequence and phylogeny of goose adenovirus. **Kaján, G.L.**
- HP-02 Generation of a family of Ad5 mutants with slowed packaging kinetics but non-affected packaging efficiency. **Alba, R.**
- HP-03 New Candidate Adenovirus Species (Human Adenovirus G) Found in Patients Presenting with Gastroenteritis. **Jones, M.S.**

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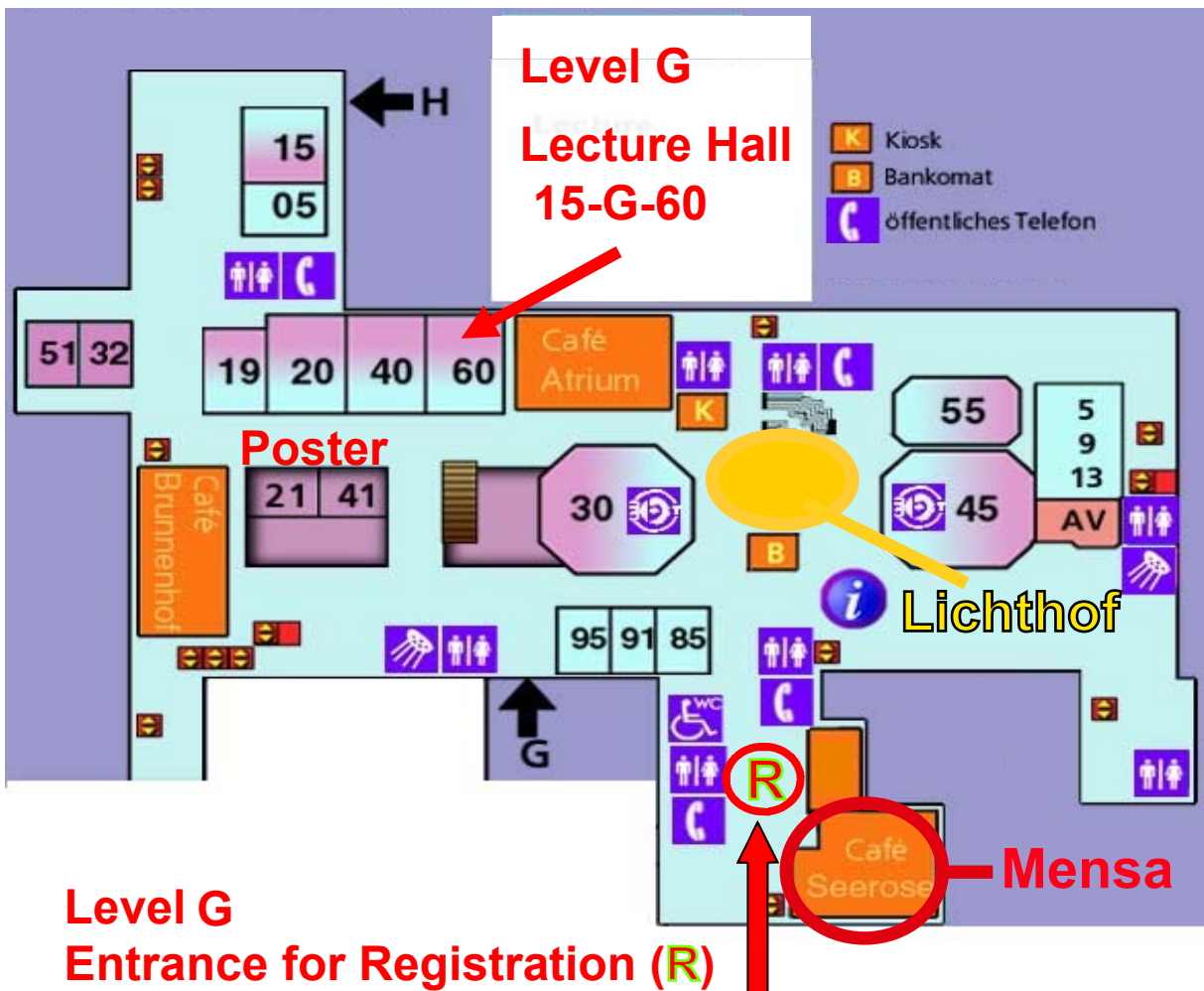
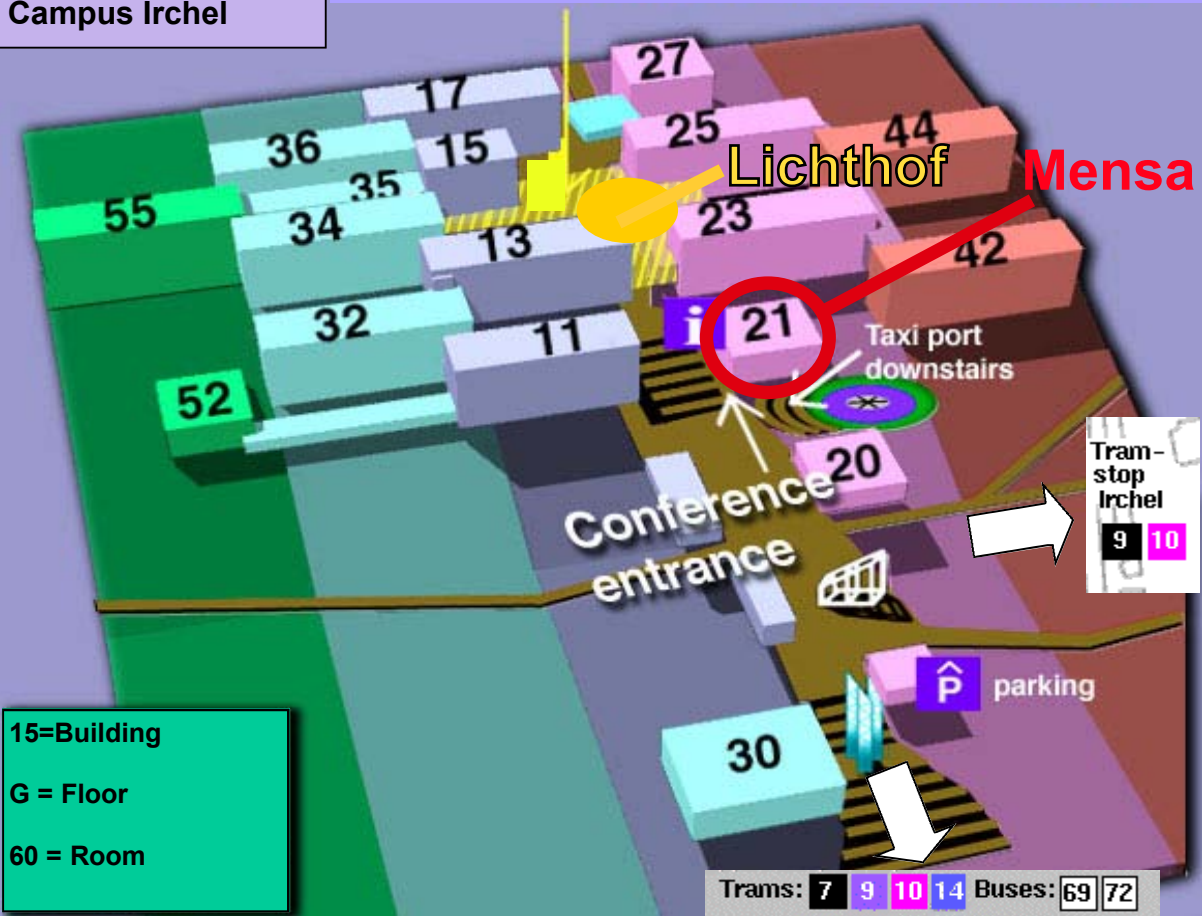
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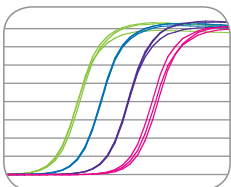
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