

Monday 2 July 10.00-13.00

The special sightseeing-tour (3 hours bus tour)
Relax in a comfortable coach while you see Berlin's most famous buildings and the newest changes in the city. We will also inform you about the move of the government and show ministries, embassies and associations. The background knowledge of our guides and their dedication to Berlin assure a tour of highest quality.

This tour offers: Bellevue Palace, the Reichstag Building - seat of the German Parliament, the New Chancellery, the historical centre, Kurfürstendamm, Castle Square and Museum Island andof course all important sights.

Start: Brandenburg Gate (in front of the Info-Point)

End: Museum Island Price: € 18,- (minimum 15 participants)

Tuesday 3 July 10.00 – 12.30

Berlin's "New Centre", Governmental area & Potsdam Square (2,5 hours walking tour)

Nowhere else the terrific change of Berlin in the past 10 years becomes more obvious as in the intersection between East- and West-Berlin. Not all the projects are completed yet, but the shapes are evident. We inform you about the hitherto existing and the upcoming process.

This tour offers: development of Paris Square in front of the Brandenburg Gate, the Reichstag's history and its present role in the German government, the new Federal Chancellery and the new buildings for the government, the new Central Railway-Station and the huge tunnel construction underneath the Tiergarten park, 11 years after the Wall fell: where exactly stood the Wall?,

Potsdam Square: yesterday – today - tomorrow

Start: Brandenburg Gate (in front of the Info-Point)

End: Marlene-Dietrich-Square/Potsdam Square

Price: € 11,- (minimum 10 participants)

ESM 2001

22nd Annual Congress
of the
European Society
of Mycobacteriology

Scientific Programme

Abalain, ML.	P 47; P 64	Coroa, M.	OMo17
Abe, C.	OMo15; P 86	Costopoulos, C.	P 55; P 61
Al-Abdely, H.	P 62	Curik, R.	P 75
Al-Jaber, M.J.M.H.	P 70	Cvetnic, Z.	OTu30; P 45
Albert, J.	OTu23	Cynamon, M.	P 84
Alfarroba, E.	P 63; P 72	de Saint Martin, L.	P 47
Alon, T.	P 68	Dela, A.	P 44
Alrajhi, A.A.	P 62	Della-Latta, P.	OMo05
Alvares, E.	P 63	Denaro, A.	P 85
Amthor, B.	OMo09	Derivois, D.	P 87
Anagnostou, S.	P 51; P 55; P 61	DeStefano, M.	P 84
Andersen, P.	OWe33	Devos, A.	P 48
Ängeby, K. A. K.	OMo14	Dolzani, L.	P 40; P 66
Antoun, F.	P 41	Domachowske, J.B.	P 83
Aono, A.	OMo15	Donoghue, H.D.	OTu32
Aoyagi, T.	P 86	Dostal, S.	OTu23
Ardito, F.	OMo16; P 50	Drancourt, M.	P 74
Arshi, SH.	P 89	Drath, L.	OTu22
Asmolov, A.K.	P 52	Drobniewski, F.	OMo10; P 42
Astola, J.	P 77; P 82	Drostén, C.	P 54
Augustynowicz-Kopec, E.	P 46	Dvorska, L.	P 80
Balabanova, Y.	P 42	Dziadek, J.	P 44; P 46
Banfi, E.	P 40; P 66	Elliott, S.	P 84
Baptista, H.	OMo17	Elwood, K.	P 43
Bar-Dov, L.	P 68	Emler, S.	OTu20
Barata, N.	OMo17	Engelmann, G.	OMo09
Barsky, Y.	P 68	Erler, W.	OTu29
Bartoloni, A.	OTu20	Erzen, D.	P 38; P 45
Barton, H.A.	P 74	Evans, C.	P 48
Bartos, M.	P 80	Fabre, M.	P 56; P 59
Baumanis, V.	P 73	Fabris, C.	P 40; P 66
Bayer, P.M.	P 88	Fadda, G.	OMo16; OTu18; P 50
Bazhora, Yu.I.	P 52	Fan, Y.	P 79
Ben-David, H.	P 68	Fattorini, L.	P 79
Berns, G.	OTu24	Fauville-Dufaux, M.	OMo13
Black, W.A.	P 43	Fedorin, I.	P 42
Boaventura, L.	OMo17	Fejzic, N.	OTu30
Bonville, C.A.	P 83	Filliol, I.	P 49
Boulahbal, F.	OTu27	Filyuk, V.V.	P 52
Bretzel, G.	P 54	FitzGerald, J.M.	P 43
Broka L.	P 73	Flanagan, P.G.	P 67
Brzostek, A.	P 44	Fletcher, H.	OTu32
Burger, M.	OMo09	Forbes, B.A.	P 83
Chemlal, K.	P 65	Forßbohm, M.	OTu25
Chiaradonna, P.	P 85	Frosch, M.	OTu23
Coll, P.	P 77	Gacem, F.Z.	OTu27
Content, J.	P 78	Galamba, A.	P 78

Garcia, M.J.	P 53	Julián, E.	OWe35; P 81; P 82
Garzelli, C.	OTu20	Jurén, P.	OMo07
Gea, B.	P 53	Kahlau, D.I.	OTu29
Gérome, P.	P 56; P 59	Karapici, L.	OMo05
Gesu, G.	P 50	Karfi, V.	P 55; P 61
Giannoni, F.	P 79	Katalinic-Jankovic, V.	OMo02; OTu30
Glück, T.	OTu19	Kaustová, J.	P 75; P 76; P 80
Goldblatt, D.	P 68	Kerleguer, A.	P 56; P 59
Gonzalez, A.	P 69	Klintz, L.	OMo14
Gonzalez-Escalada, A.	P 53	Knipp, U.	OTu22
Goodfellow, M.	OTu21	Koeck, J.L.	P 56
Gooya, M.	P 89	Köhler, S.	P 54
Gouriou, S.	P 47; P 64	Kolcakova, J.	P 75
Grabner, W.	OTu31	Kolettou, M.	P 61
Gürtler, V.	P 74	Körmendy, B.	OTu30
Gutiérrez, M.C.	P 47; P 65	Kramme, S.	P 54
Haas, W.H.	OMo09	Kresyun, V.I.	P 52
Hackl, G.	P 88	Kummer, F.	P 88
Hamawi, M.	P 68	Kunimoto, D.	P 43
Hamid, M.E.	OTu21	Kuznetsov, S.	P 42
Hance, P.	P 59	Lagatolla, C.	P 40
Hanzlikova, M.	OTu30	Lago, J.	P 63; P 72
Harmsen, D.	OTu23	Lamothe, F.	P 87
Hauer, B.	OTu25	Landt, O.	OTu21
Havelková, M.	OTu26; OTu30	Lavy, A.	P 68
Heersma, H.	OMo08	Legrand, E.	P 49
Heginbotham, M.L.	P 67	Lehn, N.	P 74
Hengstler, M.	OTu22	Lemaître, N.	P 41
Hernandez-Garduno, E.	P 43	Lenart, K.	P 46
Hervé, V.	P 56; P 59	Levidiotou-Stefanou, S.	P 39; P 51
Hirano, K.	OMo15	Li, Y.	P 79
Hoffner, S.E.	OMo07; OMo14	Limeschenko, E.	P 49
Honisch, C.	OMo12	Lipiec, M.	OTu30
Hyncicová, I.	OTu26	Lissia, A.	OTu18
Ieven, M.	OMo01	Litvinov, V.I.	P 60
Ifticene, M.	OTu27	Loddenkemper, R.	OTu25
Ilg, B.	OTu24	Löscher, T.	OMo03
Iona, E.	P 79	Lowrie, D.B.	OWe36
Irtouganova, O.A.	P 60	Lundgren, B.	OMo04
Jacobs, P.	P 78	Luquin, M.	OWe35; P 77
Jäger, T.	OMo12		P 81; P 82
Jansone, I.	P 73	Machackova, M.	OTu30
Jarlier, V.	P 41	Magee, J.T.	P 67
Jeyanathan, M.	OWe37	Majidpoor, A.	P 89
Johansen, A.	OMo04	Mamolo, M.G.	P 66
Johansen, I.S.	OMo04	Mantella, A.	OTu20

Express identification of *Mycobacterium tuberculosis* in different biological samples

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Tuberculosis morbidity is increasing constantly in Ukraine and in Odessa region as well. In 2000 children morbidity have run up to 6,5 by 100,000 children, adolescents – to 33,4; adults – to 41,9 by 100,000 citizens. The most part of these cases falls to the share of lung pathology, but relatively low level (15,7%) of extra-pulmonary tuberculosis proves imperfection of existing diagnostic methods.

Recently in Ukraine bacterioscopy (flotation) and bacteriological (cultivation on nutrient media) are common methods of laboratory diagnostics. Effectiveness of bacteriological as well as fluorography and tuberculin tests is insufficient in cases of extra-pulmonary localizations and diseases caused by atypical mycobacteria.

Methods of DNA diagnostics, including PCR, are of great importance in tuberculosis and mycobacteriosis diagnosis. Some problems in these approaches are due to the peculiarities of mycobacterial cell wall structure, difficulties in DNA extraction from phlegm and other samples and clinical understanding of PCR tests results.

Objective: to propose a simple, universal and reproducible method of DNA extraction and PCR protocol for testing of different biological samples on mycobacterial DNA presence.

Material and methods: we studied phlegm and washes out of oral cavity from 50 BK-positive patients with different forms of pulmonary tuberculosis, 50 BK-negative patients with different forms of pulmonary tuberculosis, and scrapes from mucous membranes of 30 patients with tuberculosis of urine-genital system. Mycobacteria isolation from probes was carried out by its absorption on magnetic corpuscles with monoclonal antibodies and concentration in small volume. Than we extracted DNA by detergent (2% Triton X-100 solution) processing. Pair of primers on IS 6110 sequence was used in amplification.

Mycobacterium tuberculosis DNA exposure in different samples reached 100% in cases of BK positive phlegm and oral washes. In phlegm and oral washes of BK-negative patients it comes to 88,7% and 84,3% relatively. In genital scrapes from patients with tuberculosis of urine0genital system it reaches 65,2%. These indices greatly exceeds results of routine bacterioscopy and bacteriological tests and other PCR procedures.

Conclusions: results of experiments proves high effectiveness of PCR tests in diagnostics of pulmonary and extra-pulmonary tuberculosis. Using original immunology methods of bacteria isolation with magnetic corpuscles increases its reliability especially while studying phlegm and other samples rich in mucous and proteins.